Department of the Treasury Internal Revenue Service

# Return of Organization Exempt From Income Tax Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

Do not enter social security numbers on this form as it may be made public.

► Go to www.irs.gov/Form990 for instructions and the latest information.



<u>A</u>	For the	2020 calendar year, or tax year beginning APR 1, 2020 and e	nding M	AR 31, 2021			
В	Check if applicable	C Name of organization		D Employer identific	ation number		
Г	Addres change	BRIGHTFOCUS FOUNDATION					
	Name change	Doing business as		23-7337229			
Ļ	iretum	1	Room/suite	E Telephone number			
	Final return/	22512 GATEWAY CENTER DRIVE		(301) 948			
	termin- ated			G Gross receipts \$	65,908,648.		
	Amend return	CHARASBORG, MD 208/1	. ,	H(a) Is this a group re	turn		
	Application pending	Final and address of principal officer: STACI FAGOS HADDER		for subordinates	?Yes 🗓 No		
	•	SAME AS C ABOVE		H(b) Are all subordinates in	cluded? Yes No		
		mpt status: X 501(c)(3) 501(c) ( ) ◀ (insert no.) 4947(a)(1) or	527		list. See instructions		
		e: ► WWW.BRIGHTFOCUS.ORG	<u> </u>	H(c) Group exemption			
		organization: X Corporation Trust Association Other Summary	L Year	of formation: 1973 N	State of legal domicile: DC		
4	1	Briefly describe the organization's mission or most significant activities: BRIGH					
Governance		(BRIGHTFOCUS) SEEKS A WORLD FREE FROM DISE					
r.	2 (	Check this box $lacktriangle$ if the organization discontinued its operations or dispose	d of more	than 25% of its net ass	ets.		
Š	3			3	11		
<u>ت</u> م	4	Number of independent voting members of the governing body (Part VI, line 1b) $\dots$			11		
ď	5	Total number of individuals employed in calendar year 2020 (Part V, line 2a)			61		
Ę	6	Total number of volunteers (estimate if necessary)		6	71		
Activities &	7 a			7a	0.		
_	<u>, p</u>	Net unrelated business taxable income from Form 990-T, Part I, line 11		7b	0.		
				Prior Year	Current Year		
4	8 9	Contributions and grants (Part VIII, line 1h)		35,740,875.	48,502,473.		
Revenile	9	Program service revenue (Part VIII, line 2g)		0.	<u> </u>		
Ž	10	nvestment income (Part VIII, column (A), lines 3, 4, and 7d)		840,873.	1,768,676.		
-	ינון	Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)		815,078.	975,243.		
_		Total revenue - add lines 8 through 11 (must equal Part VIII, column (A), line 12)		37,396,826.	51,246,392.		
	1	Grants and similar amounts paid (Part IX, column (A), lines 1-3)		17,853,862.	25,256,371.		
		Benefits paid to or for members (Part IX, column (A), line 4)		0.	0.		
ų,	3 15	Salaries, other compensation, employee benefits (Part IX, column (A), lines 5-10)		5,386,724.	5,801,548.		
Fynancec	2  16a	Professional fundraising fees (Part IX, column (A), line 11e)		743,582.	738,435.		
Š	} _b`	Total fundraising expenses (Part IX, column (D), line 25) 8,392,58		10 055 346	406		
-	''	Other expenses (Part IX, column (A), lines 11a-11d, 11f-24e)		18,867,346.	20,436,021.		
		Total expenses. Add lines 13-17 (must equal Part IX, column (A), line 25)		42,851,514.	52,232,375.		
or —	19	Revenue less expenses, Subtract line 18 from line 12		-5,454,688.	-985,983.		
10 83	ë	w	Be	ginning of Current Year	End of Year		
Assets	현 20 ·	Total assets (Part X, line 16)	····  —	53,987,981.	66,476,749.		
Net A	a	Total liabilities (Part X, line 26)	·····  —	28,594,817.	33,442,032.		
		Net assets or fund balances. Subtract line 21 from line 20 Signature Block		25,393,164.	33,034,717.		
10.4.0	Actor when the strain strain	ties of perjury, I declare that have examined this return, including accompanying schedules	and etatom	ente and to the heet of m	(knowledge and helief it in		
		t, and complete. Declaration/of preparer (other than officer) is based on all information of which			knowledge and benef, it is		
<u></u>	o, oon oo	Silver lesses to the transfer of the transfer	cii preparei	8_2~	-21		
Sig	nn an	Signature of officer	***********	Date	<u> </u>		
He		► STACY PAGOS HALLER, PRESIDENT/CEO					
		Type or print name and title	······································	····			
_		Print/Type preparer's name FRANK H. SMITH Preparer's signature Frank H. Smith	···	Date Check	PTIN		
Pa	id	FRANK H. SMITH Frank H. Smith	la	08/02/21 if self-employ			
	eparer	Firm's name MARCUM, LLP			11-1986323		
	e Only	Firm's address 1899 L STREET, NW, SUITE 850					
	-	WASHINGTON, DC 20036		Phone no. ( 2	02) 227-4000		
Ma	ay the IF	S discuss this return with the preparer shown above? See instructions	******		X Yes No		
022	1001 12 2	Log LHA For Panerwork Reduction Act Notice see the senarate instruction			Form 990 (2020)		

Pa	Statement of Program Service Accomplishments
	Check if Schedule O contains a response or note to any line in this Part III
1	Briefly describe the organization's mission:
	BRIGHTFOCUS FUNDS EXCEPTIONAL SCIENTIFIC RESEARCH WORLDWIDE TO DEFEAT
	ALZHEIMER'S DISEASE, MACULAR DEGENERATION, AND GLAUCOMA AND PROVIDES
	EXPERT INFORMATION ON THESE HEARTBREAKING DISEASES. PLEASE REFER TO
	SCHEDULE O FOR A COMPLETE OVERVIEW OF OUR MISSION.
2	Did the organization undertake any significant program services during the year which were not listed on the
	prior Form 990 or 990-EZ?
	If "Yes," describe these new services on Schedule O.
3	Did the organization cease conducting, or make significant changes in how it conducts, any program services? Yes X No
Ū	If "Yes," describe these changes on Schedule O.
4	Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses.
-	Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and
	revenue, if any, for each program service reported.  (Code: ) (Expenses \$ 22,947,911 • including grants of \$ 14,187,968 • ) (Revenue \$ )
4a	
	ALZHEIMER'S DISEASE RESEARCH (ADR)
	DI EAGE DEDED DO COMEDIU E O EOD A COMPLEME DEGONIDATON OF DUE
	PLEASE REFER TO SCHEDULE O FOR A COMPLETE DESCRIPTION OF THE
	ACCOMPLISHMENTS FOR ALZHEIMER'S DISEASE RESEARCH.
4b	(Code:) (Expenses \$11,284,353. including grants of \$6,175,716. ) (Revenue \$)
	MACULAR DEGENERATION RESEARCH (MDR)
	PLEASE REFER TO SCHEDULE O FOR A COMPLETE DESCRIPTION OF THE
	ACCOMPLISHMENTS FOR MACULAR DEGENERATION RESEARCH.
4c	(Code:) (Expenses \$5,765,950 • including grants of \$4,892,687 • ) (Revenue \$)
	NATIONAL GLAUCOMA RESEARCH (NGR)
	PLEASE REFER TO SCHEDULE O FOR A COMPLETE DESCRIPTION OF THE
	ACCOMPLISHMENTS FOR NATIONAL GLAUCOMA RESEARCH.
4d	Other program services (Describe on Schedule O.)
	(Expenses \$ including grants of \$ ) (Revenue \$ )
4e	Total program service expenses ► 39,998,214.
	E 000 (2000)

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## Form 990 (2020) BRIGHTFOCUS FOUNDATION Part IV Checklist of Required Schedules

			Yes	No
1	Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)?			
	If "Yes," complete Schedule A	1	Х	
2	Is the organization required to complete Schedule B, Schedule of Contributors?	2	X	
3	Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for			
	public office? If "Yes," complete Schedule C, Part I	3		Х
4	Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect			
	during the tax year? If "Yes," complete Schedule C, Part II	4	Х	
5	Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or			
	similar amounts as defined in Revenue Procedure 98-19? If "Yes," complete Schedule C, Part III	5		x
6	Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to	_		
Ü	provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I	6		x
7	$\cdot$	-		
7	Did the organization receive or hold a conservation easement, including easements to preserve open space,	_		<sub>▼</sub>
_	the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II	7		X
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete	_		37
	Schedule D, Part III	8		X
9	Did the organization report an amount in Part X, line 21, for escrow or custodial account liability, serve as a custodian for			
	amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services?			
	If "Yes," complete Schedule D, Part IV	9		X
10	Did the organization, directly or through a related organization, hold assets in donor-restricted endowments			
	or in quasi endowments? If "Yes," complete Schedule D, Part V	10	X	
11	If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X			
	as applicable.			
а	Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D,			
	Part VI	11a	X	
b	Did the organization report an amount for investments - other securities in Part X, line 12, that is 5% or more of its total			
_	assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII	11b		X
	Did the organization report an amount for investments - program related in Part X, line 13, that is 5% or more of its total			
·	assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII	11c		X
٨	Did the organization report an amount for other assets in Part X, line 15, that is 5% or more of its total assets reported in	110		
u		444		X
_	Part X, line 16? If "Yes," complete Schedule D, Part IX	11d	Х	
e	Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X	11e	21	
f	Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses		v	
	the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X	11f	X	
12a	Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete			,,
	Schedule D, Parts XI and XII	12a		X
b	Was the organization included in consolidated, independent audited financial statements for the tax year?			
	If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional	12b	X	
13	Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13		X
14a	Did the organization maintain an office, employees, or agents outside of the United States?	14a		X
b	Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business,			
	investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000			
	or more? If "Yes," complete Schedule F, Parts I and IV	14b	X	
15	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any			
	foreign organization? If "Yes," complete Schedule F, Parts II and IV	15	Х	
16	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to			
	or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV	16		Х
17	Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX,			
-	column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I	17	Х	
18	Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines			
.5	1c and 8a? If "Yes," complete Schedule G, Part II	18		x
10	Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes."	10		<del></del>
19		40		x
00-	complete Schedule G, Part III	19		X
20a	Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H	20a		
b	If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b		
21	Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or			
	domestic government on Part IX, column (A), line 1? If "Yes." complete Schedule I. Parts I and II	21	X	

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Part IV | Checklist of Required Schedules (continued)

- G	Continued)		V	N <sub>a</sub>
22	Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on		Yes	No
22		22		x
23	Part IX, column (A), line 2? If "Yes," complete Schedule I, Parts I and III  Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current			
20	and former officers, directors, trustees, key employees, and highest compensated employees? If "Yes," complete			1
	Schedule J	23	х	1
24a	Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the			
	last day of the year, that was issued after December 31, 2002? If "Yes," answer lines 24b through 24d and complete			1
	Schedule K. If "No," go to line 25a	24a		x
b	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b		
	Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease			
	any tax-exempt bonds?	24c		1
d	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d		
	Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit			
	transaction with a disqualified person during the year? If "Yes," complete Schedule L, Part I	25a		х
b	Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and			
	that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? If "Yes," complete			
	Schedule L, Part I	25b		Х
26	Did the organization report any amount on Part X, line 5 or 22, for receivables from or payables to any current			
	or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35%			1
	controlled entity or family member of any of these persons? If "Yes," complete Schedule L, Part II	26		X
27	Did the organization provide a grant or other assistance to any current or former officer, director, trustee, key employee,			
	creator or founder, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled			1
	entity (including an employee thereof) or family member of any of these persons? If "Yes," complete Schedule L, Part III	27		X
28	Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV			
	instructions, for applicable filing thresholds, conditions, and exceptions):			
а	A current or former officer, director, trustee, key employee, creator or founder, or substantial contributor? If			1
	"Yes," complete Schedule L, Part IV	28a		X
b	A family member of any individual described in line 28a? If "Yes," complete Schedule L, Part IV	28b		X
С	A 35% controlled entity of one or more individuals and/or organizations described in lines 28a or 28b? If			1
	"Yes," complete Schedule L, Part IV	28c		<u> </u>
29	Did the organization receive more than \$25,000 in non-cash contributions? If "Yes," complete Schedule M	29	X	<u> </u>
30	Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation			
	contributions? If "Yes," complete Schedule M	30		X
31	Did the organization liquidate, terminate, or dissolve and cease operations? If "Yes," complete Schedule N, Part I	31		X
32	Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? If "Yes," complete			
	Schedule N, Part II	32		<u> </u>
33	Did the organization own 100% of an entity disregarded as separate from the organization under Regulations			
	sections 301.7701-2 and 301.7701-3? If "Yes," complete Schedule R, Part I	33	Х	<u> </u>
34	Was the organization related to any tax-exempt or taxable entity? If "Yes," complete Schedule R, Part II, III, or IV, and			
	Part V, line 1	34		X
	Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a		X
b	If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity			1
	within the meaning of section 512(b)(13)? If "Yes," complete Schedule R, Part V, line 2	35b		
36	Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization?			v
	If "Yes," complete Schedule R, Part V, line 2	36		X
37	Did the organization conduct more than 5% of its activities through an entity that is not a related organization	0.7		x
00	and that is treated as a partnership for federal income tax purposes? If "Yes," complete Schedule R, Part VI	37		
38	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19?  Note: All Form 990 filers are required to complete Schedule O	38	Х	
Pai		30	21	
. 4	Check if Schedule O contains a response or note to any line in this Part V			
	Shook is Solibadio Solitatino a respense of floto to dry line in the fact v		Yes	No
19	Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable 160		163	140
b	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable 1b 0			
c	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming			
J	(gambling) winnings to prize winners?	1c	х	
			-	$\overline{}$

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Part V Statements Regarding Other IRS Filings and Tax Compliance (6)

гаі	Statements Regarding Other Ind Fillings and Tax Compliance (continued)			
			Yes	No
	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements,			
	filed for the calendar year ending with or within the year covered by this return 2a 61		37	
	If at least one is reported on line 2a, did the organization file all required federal employment tax returns?	2b	X	
	Note: If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)			Х
	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a		
	If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation on Schedule O  At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a	3b		
	financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a		X
	If "Yes," enter the name of the foreign country	та		
	See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR).			
	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a		х
	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b		Х
С	If "Yes" to line 5a or 5b, did the organization file Form 8886-T?	5c		
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit			
	any contributions that were not tax deductible as charitable contributions?	6a		X
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts			
	were not tax deductible?	6b		
	Organizations that may receive deductible contributions under section 170(c).			
	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?	7a		X
	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b		
	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required	<b>.</b>		x
	to file Form 8282?  If "Yes," indicate the number of Forms 8282 filed during the year  7d	7с		
	Did the exemination vession and finale disease, or indicate, to not promitted an appropriate contract?	7e		Х
	Did the organization receive any lunds, directly or indirectly, to pay premiums on a personal benefit contract?  Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f		X
	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g		
	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h		
	Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the			
	sponsoring organization have excess business holdings at any time during the year?	8		
9	Sponsoring organizations maintaining donor advised funds.			
а	Did the sponsoring organization make any taxable distributions under section 4966?	9a		
	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b		
	Section 501(c)(7) organizations. Enter:			
	Initiation fees and capital contributions included on Part VIII, line 12			
	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities			
	Section 501(c)(12) organizations. Enter:			
	Gross income from members or shareholders  Gross income from other sources (Do not net amounts due or paid to other sources against			
Ь	amounts due or received from them.)			
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a		
	If "Yes," enter the amount of tax-exempt interest received or accrued during the year			
13	Section 501(c)(29) qualified nonprofit health insurance issuers.			
а	Is the organization licensed to issue qualified health plans in more than one state?	13a		
	Note: See the instructions for additional information the organization must report on Schedule O.			
b	Enter the amount of reserves the organization is required to maintain by the states in which the			
	organization is licensed to issue qualified health plans			
	Enter the amount of reserves on hand			
	Did the organization receive any payments for indoor tanning services during the tax year?	14a		X
	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation on Schedule O	14b		
	Is the organization subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or			_ v
	excess parachute payment(s) during the year?	15		X
	If "Yes," see instructions and file Form 4720, Schedule N.  Is the organization an educational institution subject to the section 4968 excise tax on net investment income?	16		Х
	If "Yes," complete Form 4720, Schedule O.			
		Гоки	aan	/2020

Part VI Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes on Schedule O. See instructions.

	Check if Schedule O contains a response or note to any line in this Part VI			X
Sec	tion A. Governing Body and Management			
			Yes	No
1a	Enter the number of voting members of the governing body at the end of the tax year 11	-		
	If there are material differences in voting rights among members of the governing body, or if the governing			
	body delegated broad authority to an executive committee or similar committee, explain on Schedule O.			
b	Enter the number of voting members included on line 1a, above, who are independent 11	_		
2	Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other			
_	officer, director, trustee, or key employee?	2		х
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision			
	of officers, directors, trustees, or key employees to a management company or other person?	3		x
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4		Х
5	Did the organization become aware during the year of a significant diversion of the organization's assets?	5		Х
6	Did the organization have members or stockholders?	6		Х
_	Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or			
,	more members of the governing body?	7a		x
h	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or			
-	persons other than the governing body?	7b		X
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:	1.0		
	The governing body?	8a	х	
b	Each committee with authority to act on behalf of the governing body?	8b	X	
9	Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the	0.0		
·	organization's mailing address? If "Yes," provide the names and addresses on Schedule O	9		x
Sec	tion B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)			
	(This decider b requests information about policies not required by the internal nevertide dode.)		Yes	No
10a	Did the organization have local chapters, branches, or affiliates?	10a		Х
	If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates,			
	and branches to ensure their operations are consistent with the organization's exempt purposes?	10b		
11a	Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	11a	Х	
	Describe in Schedule O the process, if any, used by the organization to review this Form 990.			
	Did the organization have a written conflict of interest policy? If "No," go to line 13	12a	Х	
	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b	Х	
С	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe			
	in Schedule O how this was done	12c	Х	
13	Did the organization have a written whistleblower policy?	13	Х	
14	Did the organization have a written document retention and destruction policy?	14	Х	
15	Did the process for determining compensation of the following persons include a review and approval by independent			
	persons, comparability data, and contemporaneous substantiation of the deliberation and decision?			
а	The organization's CEO, Executive Director, or top management official	15a	Х	
b	Other officers or key employees of the organization	15b	Х	
	If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions).			
16a	Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a			
	taxable entity during the year?	16a		Х
b	If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation			
	in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's			
	exempt status with respect to such arrangements?	16b		
Sec	tion C. Disclosure			
17	List the states with which a copy of this Form 990 is required to be filed ▶AK, AL, AR, CA, CT, FL, GA, HI, IL	,KS	, KY ,	ME
18	Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990-T (Section 501(c)(3	s only)	availa	ble
	for public inspection. Indicate how you made these available. Check all that apply.			
	X Own website X Another's website X Upon request Other (explain on Schedule O)			
19	Describe on Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, an	d finan	cial	
	statements available to the public during the tax year.			
20	State the name, address, and telephone number of the person who possesses the organization's books and records			
	DAVID F. MARKS, CPA, CMA - (301) 948-3244			
	22512 GATEWAY CENTER DRIVE, CLARKSBURG, MD 20871			
	CEE CCUEDITE O FOR FILL LICH OF CHAMEC	F	000	(0000)

## Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors

Check if Schedule O contains a response or note to any line in this Part VII

#### Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

- 1a Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.
- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
  - List all of the organization's current key employees, if any. See instructions for definition of "key employee."
- List the organization's five current highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

See instructions for the order in which to list the persons above.

(A) Name and title	(B) Average hours per	box	not c , un <b>l</b> e:	Pos heck i ss per	more rson i	than o	n an	(D) Reportable compensation	(E) Reportable compensation	(F) Estimated amount of
	week (list any hours for related organizations below line)	stee or director	Institutional trustee	Officer		Highest compensated employee		from the organization (W-2/1099-MISC)	from related organizations (W-2/1099-MISC)	other compensation from the organization and related organizations
(1) STACY PAGOS HALLER	55.00							254 552	•	- 4 - 600
PRESIDENT/CEO	45.00	<u> </u>		Х				371,573.	0.	54,629.
(2) NANCY LYNN	45.00	4			l			000 000	•	F4 006
SR. VP STRATEGIC PARTNERSHIPS	45.00	<u> </u>			X			239,870.	0.	51,826.
(3) R. BRIAN ELDERTON	45.00	4			l			000 000	•	4.4.400
SR. VP, DEVELOPMENT	45 00	<u> </u>			Х	_		233,289.	0.	44,438.
(4) DAVID F. MARKS, CPA, CMA	45.00							160 450	•	E2 6E2
VP, FINANCE & ADMINISTRATION	45.00	<u> </u>			X			160,472.	0.	53,670.
(5) DIANE BOVENKAMP, PHD	45.00	-			,,			174 540	0	20 100
VP, SCIENTIFIC AFFAIRS	45.00	$\vdash$	_		X			174,542.	0.	20,192.
(6) MICHAEL BUCKLEY	45.00	┨			\ \ \			150 154	0	10 210
VP, PUBLIC AFFAIRS (7) AYO ABRAHAM, CPA	40.00	$\vdash$			X			158,154.	0.	18,310.
CONTROLLER	40.00	1				x		125 502	0.	4 520
(8) JEFFREY HONAKER	40.00					^		135,592.	0.	4,528.
SR. MANAGER OPERATIONS & BUILDING	40.00	1				x		100,665.	0.	37,493.
(9) EDWARD BERGER	40.00					^		100,005.	0.	37,473.
MANAGER OF ONLINE OPERATIONS	40.00	1				X		101,633.	0.	28,471.
(10) PREETI SUBRAMANIAN, DIR. OF	40.00							101,033.	0.	20,411
SCIENT. PROGRAMS, VISION SCIENCE	40.00	1				x		107,340.	0.	7,035.
(11) PATRICIA M. STEWART	10.00					1		107,310.	•	7,033.
CHAIR	1000	x		x				0.	0.	0.
(12) CECILIA ARRADAZA	5.00	<del> </del>							• • • • • • • • • • • • • • • • • • • •	
VICE CHAIR		X		x				0.	0.	0.
(13) MADDY DYCHTWALD	5.00									
SECRETARY		Х		х				0.	0.	0.
(14) JUDITH F. LEE	5.00									
SCRETARY - UNTIL 06/20		Х		Х				0.	0.	0.
(15) ETHAN TREESE	5.00									
TREASURER		Х		Х				0.	0.	0.
(16) NICHOLAS W. RAYMOND	5.00								_	
TREASURER - UNTIL 06/2020		Х		Х				0.	0.	0.
(17) MICHAEL H. BARNETT, ESQ.	5.00									
DIRECTOR - UNTIL 06/2020		Х						0.	0.	0.

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23-7337229

Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)											
(A) (B) (C) (D) (E)											
Name and title	Average hours per week	box	not c , unle:	heck i	nore son i	than o s both r/trust	an	Reportable compensation from	Reportable compensation from related	Estimated amount of other	
	(list any hours for related organizations below line)	Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former	the organization (W-2/1099-MISC)	organizations (W-2/1099-MISC)	compensation from the organization and related organizations	
(18) GRACE FRISONE	5.00							_	_		
DIRECTOR - UNTIL 06/2020		Х						0.	0.	0.	
(19) SHAWA GOTTLEB DIRECTOR	5.00	Х						0.	0.	0.	
(20) SCOTT KAISER, MD	5.00										
DIRECTOR		Х						0.	0.	0.	
(21) JUNE KINOSHITA	5.00										
DIRECTOR - UNTIL 06/2020		Х						0.	0.	0.	
(22) TONYA MATTHEWS, PHD	5.00										
DIRECTOR		X						0.	0.	0.	
(23) BRIAN K. REGAN, PHD	5.00										
DIRECTOR		Х						0.	0.	0.	
(24) SCOTT RODGVILLE, CPA	5.00										
DIRECTOR		Х						0.	0.	0.	
(25) ERIC SIEMERS, MD	5.00										
DIRECTOR		Х						0.	0.	0.	
(26) JAN M. STOUFFER, PHD	5.00										
DIRECTOR		X						0.	0.	0.	
1b Subtotal							▶	1,783,130.	0.	320,592.	
c Total from continuation sheets to Part VI	I, Section A						<b></b>	0.	0.	0.	
d Total (add lines 1b and 1c)							<u> </u>	1,783,130.	0.	320,592.	
2 Total number of individuals (including but n	ot limited to th	ose	liste	d ab	ove	) wh	o re	ceived more than \$100,	000 of reportable	10	

compensation from the organization

Yes No Did the organization list any former officer, director, trustee, key employee, or highest compensated employee on Х line 1a? If "Yes," complete Schedule J for such individual 3 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization Х and related organizations greater than \$150,000? If "Yes," complete Schedule J for such individual 4 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services X rendered to the organization? If "Yes," complete Schedule J for such person

#### **Section B. Independent Contractors**

Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	<b>(C)</b> Compensation
RKD GROUP, 35 PARKWOOD DRIVE, SUITE 160,	PUBLIC AWARENESS	
HOPKINTON, MA 01748	CONSUL. & MATERIALS	8,331,499.
BEACONFIRE RED ENGINE, 2300 CLARENDON	ONLINE PUBLIC	
BLVD., SUITE 925, ARLINGTON, VA 22201	AWARENESS CONSULTING	616,698.
DIGITAL PULP, 220 E. 23RD ST., SUITE 900,		_
NEW YORK, NY 10010	WEBSITE DEVELOPMENT	269,684.
DATA MANAGEMENT, INC.		_
160 STONE STREET, STONEVILLE, NC 27048	DATABASE MANAGEMENT	232,099.
GOOGLE, 1600 AMPHITHEATRE PARKWAY,	PUBLIC AWARENESS	_
MOUNTAIN VIEW, CA 94043	ADVERTISING	225,273.
2 Total number of independent contractors (including but not limited to those lister \$100,000 of compensation from the organization ► 15		

Form **990** (2020)

10

		Check if Schedule Coentains a response or note to any	line in this Bort VIII			
		Check if Schedule O contains a response or note to any	(A) Total revenue	(B) Related or exempt function revenue	(C)	( <b>D</b> ) Revenue excluded from tax under sections 512 - 514
Contributions, Gifts, Grants and Other Similar Amounts	1 a b c d e f		).			
	_	Business Cod	de			
Program Service Revenue	b c d					
Pro	•	All other program service revenue				
	3	Investment income (including dividends, interest, and other similar amounts)	864,218.			864,218.
	4 5	Income from investment of tax-exempt bond proceeds  Royalties	426,005.			426,005.
	b	Gross rents  Less: rental expenses Rental income or (loss)  (i) Real (ii) Persona  6a 597,410.  6b 48,172.  6c 549,238.	al			
	d	` ' \	549,238.			549,238.
Revenue		Less: cost or other basis and sales expenses 7b 14614084 Gain or (loss) 7c 904,458.				
Other Re		Net gain or (loss)  Gross income from fundraising events (not including \$ of contributions reported on line 1c). See	904,458.			904,458.
	b c	Part IV, line 18 Less: direct expenses  Net income or (loss) from fundraising events	<b>-</b>			
	b					
	b	Gross sales of inventory, less returns and allowances 10a 10b				
<u>"</u>	С	Net income or (loss) from sales of inventory  Business Cod	de			
Miscellaneous Revenue	11 a					
scellaneo Revenue	b b					
Mis		All other revenue  Total. Add lines 11a-11d				
	12	Total revenue See instructions	51246392.	0.	0.	2743919.

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## Form 990 (2020) BRIGHTFOCUS FOUNDATION Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. A	All other organizations must complete column (A).
--	---

	Check if Schedule O contains a respon				(D)
	not include amounts reported on lines 6b, 8b, 9b, and 10b of Part VIII.	(A) Total expenses	<b>(B)</b> Program service expenses	<b>(C)</b> Management and general expenses	<b>(D)</b> Fundraising expenses
1	Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21	19,052,047.	19,052,047.		
2	Grants and other assistance to domestic individuals. See Part IV, line 22				
3	Grants and other assistance to foreign				
	organizations, foreign governments, and foreign				
	individuals. See Part IV, lines 15 and 16	6,204,324.	6,204,324.		
4	Benefits paid to or for members				
5	Compensation of current officers, directors,				
	trustees, and key employees	1,573,474.	1,010,636.	314,938.	247,900
6	Compensation not included above to disqualified				
	persons (as defined under section 4958(f)(1)) and				
	persons described in section 4958(c)(3)(B)				
7	Other salaries and wages	3,144,579.	1,695,968.	1,009,978.	438,633
8	Pension plan accruals and contributions (include	100 444	00.000	E0 E0E	05 440
	section 401(k) and 403(b) employer contributions)	182,444.	98,398.	58,597.	25,449 85,931
9	Other employee benefits	616,041.	332,250.	197,860.	85,931
10	Payroll taxes	285,010.	153,715.	91,540.	39,755
11	Fees for services (nonemployees):				
а	Management	1.45 0.46	112 000	24 054	
	Legal	145,246.	113,992.	31,254.	12 051
	Accounting	92,755.	52,452.	26,352.	13,951
d	Lobbying	720 425			720 425
е	Professional fundraising services. See Part IV, line 17	738,435. 293,916.		202 016	738,435
f	Investment management fees	293,910.		293,916.	
g	Other. (If line 11g amount exceeds 10% of line 25,	2,232,333.	2,043,561.	1 / 7 0 7 2	40,899
	column (A) amount, list line 11g expenses on Sch O.)	491,712.	239,870.	147,873.	251,842
12	Advertising and promotion	965,494.	442,423.	292,310.	230,761
13	Office expenses	891,189.	618,392.	194,717.	78,080
14 15	Information technology	091,109.	010,392.	194,1110	70,000
15	Royalties	433,695.	256,408.	136,295.	40,992
16 17	Occupancy	699.	30.	436.	233
17 10	Travel Payments of travel or entertainment expenses	0,0,0	30.	430.	233
18	for any federal, state, or local public officials				
19	Conferences, conventions, and meetings	227,306.	173,946.	2,444.	50,916
20	Interest	13,456.	7,515.	4,288.	1,653
20 21	Payments to affiliates	13 / 13 0 .	, , 5 1 5 0	1,2001	
22	Depreciation, depletion, and amortization	314,379.	183,065.	95,689.	35,625
23	Insurance	92,448.	34,086.	50,986.	7,376
24	Other expenses, Itemize expenses not covered				.,,
	above (List miscellaneous expenses on line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
а	PUB. AWARENESS POSTAGE	6,655,623.	3,386,707.	451,565.	2,817,351
b	PUB. AWARENESS PRINTING	4,390,366.	2,260,721.	269,895.	1,859,750
c	PUB. AWARENESS COMP.	1,786,224.	922,966.	96,217.	767,041
d	LIST RENTAL	1,409,180.	714,742.	74,426.	620,012
е	All other expenses				
25	Total functional expenses. Add lines 1 through 24e	52,232,375.	39,998,214.	3,841,576.	8,392,585
26	Joint costs. Complete this line only if the organization				
	reported in column (B) joint costs from a combined				
	educational campaign and fundraising solicitation.				
	Check here X if following SOP 98-2 (ASC 958-720)	14,155,229.	6,674,273.	950,694.	6,530,262

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Form 990 (2020)
Part X Balance Sheet

Pai	rt X	Balance Sneet				
		Check if Schedule O contains a response or note to a	ny line in this Part X			
				<b>(A)</b> Beginning of year		<b>(B)</b> End of year
	1	Cash - non-interest-bearing		2,907,293.	1	3,829,911
	2	Savings and temporary cash investments		269,981.	2	621,981
	3	Pledges and grants receivable, net	8,906,997.	3	10,272,457	
	4	Accounts receivable, net			4	
	5	Loans and other receivables from any current or former				
		trustee, key employee, creator or founder, substantial	contributor, or 35%			
		controlled entity or family member of any of these pers	sons		5	
	6	Loans and other receivables from other disqualified pe				
		under section 4958(f)(1)), and persons described in sec	ction 4958(c)(3)(B)		6	
S	7	Notes and loans receivable, net			7	
Assets	8	Inventories for sale or use		15,836.	8	44,354
À	9	B		89,282.	9	204,913
	10a	Land, buildings, and equipment: cost or other				
			12,715,158.			
	b	Less: accumulated depreciation 10b	4,884,179.	7,596,856.	10c	7,830,979 43,404,279
	11			33,795,346.	11	43,404,279
	12	Investments - other securities. See Part IV, line 11			12	
	13	Investments - program-related. See Part IV, line 11			13	
	14	Intangible assets			14	
	15	Other assets. See Part IV, line 11	406,390.	15	267,875	
	16	Total assets. Add lines 1 through 15 (must equal line		53,987,981.	16	66,476,749
	17	Accounts payable and accrued expenses		635,145.	17	871,196
	18	Grants payable		26,847,392.	18	31,618,962
	19	Deferred revenue		39,675.	19	0
	20	Tax-exempt bond liabilities			20	
	21	Escrow or custodial account liability. Complete Part IV	of Schedule D		21	
S	22	Loans and other payables to any current or former offi				
Liabilities		trustee, key employee, creator or founder, substantial	contributor, or 35%			
iabi		controlled entity or family member of any of these pers	sons		22	
_	23	Secured mortgages and notes payable to unrelated th	ird parties		23	
	24	Unsecured notes and loans payable to unrelated third			24	
	25	Other liabilities (including federal income tax, payables	to related third			
		parties, and other liabilities not included on lines 17-24	). Complete Part X	4 000 600		
				1,072,605.	25	951,874
	26	Total liabilities. Add lines 17 through 25		28,594,817.	26	33,442,032
		Organizations that follow FASB ASC 958, check he	re ▶ X			
če		and complete lines 27, 28, 32, and 33.		0 000 500		45 500 040
ılan	27			8,878,593.	27	15,708,243 17,326,474
Be	28	Net assets with donor restrictions		16,514,571.	28	17,326,474
un		Organizations that do not follow FASB ASC 958, ch	eck here 🕨 📖			
Ϋ́		and complete lines 29 through 33.				
ts c	29	Capital stock or trust principal, or current funds			29	
sse	30	Paid-in or capital surplus, or land, building, or equipme			30	
Net Assets or Fund Balances	31	Retained earnings, endowment, accumulated income,		05 202 164	31	22 024 545
Re	32	Total net assets or fund balances		25,393,164.	32	33,034,717
	33	Total liabilities and net assets/fund balances		53,987,981.	33	66,476,749

Pai	T XI Reconciliation of Net Assets				
	Check if Schedule O contains a response or note to any line in this Part XI				X
1 2 3	Total revenue (must equal Part VIII, column (A), line 12) Total expenses (must equal Part IX, column (A), line 25) Revenue less expenses. Subtract line 2 from line 1	1 2 3		2,3 5,9	75. 83.
4 5 6 7	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))  Net unrealized gains (losses) on investments  Donated services and use of facilities  Investment expenses	4 5 6 7	25,39 8,11		
8 9 10	Prior period adjustments  Other changes in net assets or fund balances (explain on Schedule O)  Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32,	8 9		1,7	
Pai	column (B)) rt XIII Financial Statements and Reporting	10	33,03	4,7	<u> 17.</u>
ı aı	Check if Schedule O contains a response or note to any line in this Part XII				
1 2a	Accounting method used to prepare the Form 990: Cash X Accrual Other  If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule	O.	-	Yes	No X
	Were the organization's financial statements audited by an independent accountant?  If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate consolidated basis, or both:  Separate basis  X  Consolidated basis  Both consolidated and separate basis  If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the review, or compilation of its financial statements and selection of an independent accountant?	basis,		х	
	If the organization changed either its oversight process or selection process during the tax year, explain on School As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Sin Act and OMB Circular A-133?  If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits?	gle Audit	3a		X

#### **SCHEDULE A**

(Form 990 or 990-EZ)

Department of the Treasury Internal Revenue Service

### **Public Charity Status and Public Support**

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

► Attach to Form 990 or Form 990-EZ.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Open to Public Inspection

Name of the organization

BRIGHTFOCUS FOUNDATION

**Employer identification number** 

23-7337229 Reason for Public Charity Status. (All organizations must complete this part.) See instructions. Part I The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.) A church, convention of churches, or association of churches described in section 170(b)(1)(A)(i). 2 A school described in section 170(b)(1)(A)(ii). (Attach Schedule E (Form 990 or 990-EZ).) A hospital or a cooperative hospital service organization described in section 170(b)(1)(A)(iii). A medical research organization operated in conjunction with a hospital described in section 170(b)(1)(A)(iii). Enter the hospital's name, city, and state: An organization operated for the benefit of a college or university owned or operated by a governmental unit described in section 170(b)(1)(A)(iv). (Complete Part II.) A federal, state, or local government or governmental unit described in section 170(b)(1)(A)(v). X An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in section 170(b)(1)(A)(vi). (Complete Part II.) 8 A community trust described in section 170(b)(1)(A)(vi). (Complete Part II.) An agricultural research organization described in section 170(b)(1)(A)(ix) operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture (see instructions). Enter the name, city, and state of the college or 10 An organization that normally receives (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions, subject to certain exceptions; and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See section 509(a)(2). (Complete Part III.) An organization organized and operated exclusively to test for public safety. See section 509(a)(4). An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in section 509(a)(1) or section 509(a)(2). See section 509(a)(3). Check the box in lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g, \_\_\_\_ Type I. A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. You must complete Part IV, Sections A and B. Type II. A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). You must complete Part IV, Sections A and C. Type III functionally integrated. A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). You must complete Part IV, Sections A, D, and E. Type III non-functionally integrated. A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). You must complete Part IV, Sections A and D, and Part V. Check this box if the organization received a written determination from the IRS that it is a Type I, Type III, Type III functionally integrated, or Type III non-functionally integrated supporting organization. f Enter the number of supported organizations Provide the following information about the supported organization(s). (iv) Is the organization listed (iii) Type of organization (i) Name of supported (v) Amount of monetary (vi) Amount of other in your governing document? (described on lines 1-10 organization support (see instructions) support (see instructions) above (see instructions))

Total

#### Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)

(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Sec	ction A. Public Support	s noted below, pied	iso complete i art	,			
	ndar year (or fiscal year beginning in)	(a) 2016	<b>(b)</b> 2017	(c) 2018	(d) 2019	(e) 2020	(f) Total
	Gifts, grants, contributions, and	,	<b></b>	<b></b>	<u> </u>	<u> </u>	
	membership fees received. (Do not						
	include any "unusual grants.")	30692507.	32362197.	39635190.	35740875.	48502473.	186933242
2	Tax revenues levied for the organ-						
	ization's benefit and either paid to						
	or expended on its behalf						
3	The value of services or facilities						
	furnished by a governmental unit to						
	the organization without charge						
4	Total. Add lines 1 through 3	30692507.	32362197.	39635190.	35740875.	48502473.	186933242
5	The portion of total contributions						
	by each person (other than a						
	governmental unit or publicly						
	supported organization) included						
	on line 1 that exceeds 2% of the						
	amount shown on line 11,						
	column (f)						76,243.
6	Public support. Subtract line 5 from line 4.						76,243. 186856999
Sec	ction B. Total Support						
Cale	ndar year (or fiscal year beginning in)	(a) 2016	<b>(b)</b> 2017	(c) 2018	(d) 2019	(e) 2020	(f) Total
7	Amounts from line 4	30692507.	32362197.	39635190.	35740875.	48502473.	186933242
8	Gross income from interest,						
	dividends, payments received on						
	securities loans, rents, royalties,						
	and income from similar sources	1622675.	1641767.	1925519.	2176998.	1887633.	9254592.
9	Net income from unrelated business						
	activities, whether or not the						
	business is regularly carried on						
10	Other income. Do not include gain						
	or loss from the sale of capital						
	assets (Explain in Part VI.)						
11	Total support. Add lines 7 through 10						196187834
12	Gross receipts from related activities,	, etc. (see instruction	ons)			12	133,900.
13	First 5 years. If the Form 990 is for the	he organization's fi	rst, second, third,	fourth, or fifth tax	year as a section 5	01(c)(3)	
	organization, check this box and sto						<b>&gt;</b>
Sec	ction C. Computation of Publ	ic Support Per	centage				
	Public support percentage for 2020 (					14	95.24 %
	Public support percentage from 2019					15	94.93 %
16a	33 1/3% support test - 2020. If the	organization did no	ot check the box o	n line 13, and line	14 is 33 1/3% or m	ore, check this bo	
	stop here. The organization qualifies	as a publicly supp	orted organization				<b>►</b> X
b	33 1/3% support test - 2019. If the	organization did no	ot check a box on	line 13 or 16a, and	line 15 is 33 1/3%	or more, check th	nis box
	and stop here. The organization qua		• • •				
17a	10% -facts-and-circumstances test	<b>t - 2020. I</b> f the org	janization did not o	check a box on line	e 13, 16a, or 16b, a	and line 14 is 10%	or more,
	and if the organization meets the fact	ts-and-circumstanc	es test, check this	box and stop he	re. Explain in Part	VI how the organize	zation
	meets the facts-and-circumstances to	est. The organization	on qualifies as a pu	ıblicly supported o	rganization		▶□
b	10% -facts-and-circumstances test	<b>t - 2019. I</b> f the org	janization did not o	check a box on line	e 13, 16a, 16b, or <sup>1</sup>	17a, and line 15 is	10% or
	more, and if the organization meets the	he facts-and-circun	nstances test, che	ck this box and s	<b>top here.</b> Explain i	n Part VI how the	
	organization meets the facts-and-circ						▶∐
18	Private foundation. If the organization	on did not check a	box on line 13, 16	a, 16b, 17a, or 17b	o, check this box a	nd see instruction	s ▶∟
					Sche	edule A (Form 990	or 990-EZ) 2020

#### Part III | Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support	ow, please com	piete i ait ii.j				
alendar year (or fiscal year beginning in)	(a) 2016	<b>(b)</b> 2017	(c) 2018	(d) 2019	(e) 2020	(f) Total
1 Gifts, grants, contributions, and						
membership fees received. (Do not						
include any "unusual grants.")						
2 Gross receipts from admissions,						
merchandise sold or services per-						
formed, or facilities furnished in any activity that is related to the						
organization's tax-exempt purpose						
3 Gross receipts from activities that						
are not an unrelated trade or bus-						
iness under section 513						
4 Tax revenues levied for the organ-						
ization's benefit and either paid to						
or expended on its behalf						
5 The value of services or facilities						
furnished by a governmental unit to						
the organization without charge						
6 Total. Add lines 1 through 5			1			
7a Amounts included on lines 1, 2, and						
3 received from disqualified persons						
<b>b</b> Amounts included on lines 2 and 3 received						
from other than disqualified persons that						
exceed the greater of \$5,000 or 1% of the amount on line 13 for the year						
c Add lines 7a and 7b						
8 Public support. (Subtract line 7c from line 6.)						
ection B. Total Support						
alendar year (or fiscal year beginning in) ► 📘	<b>(a)</b> 2016	<b>(b)</b> 2017	(c) 2018	(d) 2019	(e) 2020	(f) Total
9 Amounts from line 6						
Oa Gross income from interest,						
dividends, payments received on securities loans, rents, royalties,						
and income from similar sources						
<b>b</b> Unrelated business taxable income						
(less section 511 taxes) from businesses						
acquired after June 30, 1975						
c Add lines 10a and 10b						
11 Net income from unrelated business						
activities not included in line 10b,						
whether or not the business is regularly carried on						
12 Other income. Do not include gain						
or loss from the sale of capital						
assets (Explain in Part VI.)						
14 First 5 years. If the Form 990 is for the	organization's f	irst, second, third,	fourth, or fifth tax	vear as a section 5	01(c)(3) organizatio	n.
check this box and stop here	•			•		
ection C. Computation of Public	Support Pe	rcentage				
5 Public support percentage for 2020 (lin	ie 8, column (f), (	divided by line 13,	column (f))		15	9
6 Public support percentage from 2019 S	Schedule A, Part	: III, line 15			16	9
ection D. Computation of Invest	ment Incom	e Percentage				
7 Investment income percentage for 202	<b>:0</b> (line 10c, colu	mn (f), divided by li	ne 13, column (f))		17	Ç
8 Investment income percentage from 20	<b>019</b> Schedule A.	, Part III, line 17			18	Ģ
<b>9a 33 1/3% support tests - 2020.</b> If the c					3 1/3%, and line 17	7 is not
more than 33 1/3%, check this box and	stop here. The	e organization quali	fies as a publicly s	upported organiza	tion	▶□
<b>b 33 1/3</b> % support tests - 2019. If the c	organization did	not check a box or	line 14 or line 19a	a, and line 16 is mo	ore than 33 1/3%, a	.nd
line 18 is not more than 33 1/3%, check	k this box and <b>s</b>	<b>top here.</b> The orga	ınization qualifies a	as a publicly suppo	orted organization	▶□
20 Private foundation If the organization	did not check a	hox on line 14 19	a or 19h check th	nis hox and see ins	tructions	

032023 01-25-21

Schedule A (Form 990 or 990-EZ) 2020

Vas No

### Part IV | Supporting Organizations

(Complete only if you checked a box in line 12 on Part I. If you checked box 12a, Part I, complete Sections A and B. If you checked box 12b, Part I, complete Sections A and C. If you checked box 12c, Part I, complete Sections A, D, and E. If you checked box 12d, Part I, complete Sections A and D, and complete Part V.)

#### Section A. All Supporting Organizations

- 1 Are all of the organization's supported organizations listed by name in the organization's governing documents? If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.
- 2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).
- 3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? If "Yes." answer lines 3b and 3c below.
- b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? If "Yes," describe in Part VI when and how the organization made the determination.
- c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? If "Yes," explain in Part VI what controls the organization put in place to ensure such use.
- 4a Was any supported organization not organized in the United States ("foreign supported organization")? If "Yes," and if you checked box 12a or 12b in Part I, answer lines 4b and 4c below.
- b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.
- c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.
- 5a Did the organization add, substitute, or remove any supported organizations during the tax year? If "Yes." answer lines 5b and 5c below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).
- **b** Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?
- c Substitutions only. Was the substitution the result of an event beyond the organization's control?
- 6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? If "Yes," provide detail in Part VI.
- 7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (as defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).
- 8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).
- 9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons, as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? If "Yes," provide detail in Part VI.
- b Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? If "Yes." provide detail in Part VI.
- c Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? If "Yes," provide detail in Part VI.
- 10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? If "Yes." answer line 10b below.
  - b Did the organization have any excess business holdings in the tax year? (Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)

		Yes	No
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	3a		
	3b		
	0-		
ŀ	3c		
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ŀ	4b		
	4c		
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	5c		
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	9b		
	9c		
	10a		
j			
اِ	10b		
n a	90 or 99	いー・ライ	2020

Pa	rt IV   Supporting Organizations (continued)			
			Yes	No
11	Has the organization accepted a gift or contribution from any of the following persons?			
а	A person who directly or indirectly controls, either alone or together with persons described in lines 11b and			
	11c below, the governing body of a supported organization?	11a		
b	A family member of a person described in line 11a above?	11b		
С	A 35% controlled entity of a person described in line 11a or 11b above? If "Yes" to line 11a, 11b, or 11c, provide			
	detail in Part VI.	11c		
Sec	tion B. Type I Supporting Organizations			
			Yes	No
1	Did the governing body, members of the governing body, officers acting in their official capacity, or membership of one or			
	more supported organizations have the power to regularly appoint or elect at least a majority of the organization's officers,			
	directors, or trustees at all times during the tax year? If "No," describe in Part VI how the supported organization(s)			
	effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported			
	organization, describe how the powers to appoint and/or remove officers, directors, or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.	1		
2	Did the organization operate for the benefit of any supported organization other than the supported			
_	organization(s) that operated, supervised, or controlled the supporting organization? If "Yes," explain in			
	Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated,			
	supervised, or controlled the supporting organization.	2		
Sec	stion C. Type II Supporting Organizations			
			Yes	No
1	Were a majority of the organization's directors or trustees during the tax year also a majority of the directors		103	110
•	or trustees of each of the organization's supported organization(s)? If "No," describe in <b>Part VI</b> how control			
	or management of the supporting organization was vested in the same persons that controlled or managed	1		
Sec	the supported organization(s). etion D. All Type III Supporting Organizations			<u> </u>
	Ton Divin Type in Supporting Significations		Vaa	N <sub>a</sub>
_	Did the executivation was tide to each of its supported executivations, but the last day of the fifth month of the		Yes	No
1	Did the organization provide to each of its supported organizations, by the last day of the fifth month of the			
	organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax			
	year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the			
_	organization's governing documents in effect on the date of notification, to the extent not previously provided?	1		
2	Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported			
	organization(s) or (ii) serving on the governing body of a supported organization? If "No," explain in Part VI how	_		
	the organization maintained a close and continuous working relationship with the supported organization(s).	2		
3	By reason of the relationship described in line 2, above, did the organization's supported organizations have a			
	significant voice in the organization's investment policies and in directing the use of the organization's			
	income or assets at all times during the tax year? If "Yes," describe in Part VI the role the organization's			
<u></u>	supported organizations played in this regard.	3		
Sec	tion E. Type III Functionally Integrated Supporting Organizations			
1	Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions	i).		
а	The organization satisfied the Activities Test. Complete line 2 below.			
b	The organization is the parent of each of its supported organizations. Complete line 3 below.			
С	The organization supported a governmental entity. Describe in Part VI how you supported a governmental entity (see in	nstruction	s).	
2	Activities Test. Answer lines 2a and 2b below.		Yes	No
а	Did substantially all of the organization's activities during the tax year directly further the exempt purposes of			
	the supported organization(s) to which the organization was responsive? If "Yes," then in Part VI identify			
	those supported organizations and explain how these activities directly furthered their exempt purposes,			
	how the organization was responsive to those supported organizations, and how the organization determined			
	that these activities constituted substantially all of its activities.	2a		
b	Did the activities described in line 2a, above, constitute activities that, but for the organization's involvement,			
	one or more of the organization's supported organization(s) would have been engaged in? If "Yes," explain in			
	Part VI the reasons for the organization's position that its supported organization(s) would have engaged in			
	these activities but for the organization's involvement.	2b		
3	Parent of Supported Organizations. Answer lines 3a and 3b below.			
а				
	trustees of each of the supported organizations? If "Yes" or "No" provide details in Part VI.	За		
b				
	of its supported organizations? If "Yes," describe in Part VI the role played by the organization in this regard.	3b		

Pai	t V Type III Non-Functionally Integrated 509(a)(3) Supporti	ng Organi:	zations	
1	Check here if the organization satisfied the Integral Part Test as a qualify	ing trust on N	ov. 20, 1970 ( <i>explain in</i> I	Part VI). See instructions.
	All other Type III non-functionally integrated supporting organizations mu		· · · · · · · · · · · · · · · · · · ·	
Sect	on A - Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1	Net short-term capital gain	1		
2	Recoveries of prior-year distributions	2		
_3_	Other gross income (see instructions)	3		
_4_	Add lines 1 through 3.	4		
_5_	Depreciation and depletion	5		
6	Portion of operating expenses paid or incurred for production or			
	collection of gross income or for management, conservation, or			
	maintenance of property held for production of income (see instructions)	6		
_7_	Other expenses (see instructions)	7		
8	Adjusted Net Income (subtract lines 5, 6, and 7 from line 4)	8		
Sect	on B - Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1	Aggregate fair market value of all non-exempt-use assets (see			
	instructions for short tax year or assets held for part of year):			
<u>a</u>	Average monthly value of securities	1a		
b	Average monthly cash balances	1b		
c	Fair market value of other non-exempt-use assets	1c		
<u>d</u>	Total (add lines 1a, 1b, and 1c)	1d		
е	Discount claimed for blockage or other factors			
	(explain in detail in Part VI):			
_2_	Acquisition indebtedness applicable to non-exempt-use assets	2		
_3_	Subtract line 2 from line 1d.	3		
4	Cash deemed held for exempt use. Enter 0.015 of line 3 (for greater amount,			
	see instructions).	4		
_5_	Net value of non-exempt-use assets (subtract line 4 from line 3)	5		
6	Multiply line 5 by 0.035.	6		
_7_	Recoveries of prior-year distributions	7		
_8_	Minimum Asset Amount (add line 7 to line 6)	8		
Sect	on C - Distributable Amount			Current Year
_1_	Adjusted net income for prior year (from Section A, line 8, column A)	1		
_2_	Enter 0.85 of line 1.	2		
_3_	Minimum asset amount for prior year (from Section B, line 8, column A)	3		
_4_	Enter greater of line 2 or line 3.	4		
_5_	Income tax imposed in prior year	5		
6	Distributable Amount. Subtract line 5 from line 4, unless subject to			
	emergency temporary reduction (see instructions).	6		
7	Check here if the current year is the organization's first as a non-function	ally integrated	d Type III supporting orga	nization (see
	instructions).			

Schedule A (Form 990 or 990-EZ) 2020

Par	rt v   Type III Non-Functionally integrated 509	(a)(3) Supporting Organ	ilzations <sub>(continu</sub>	<u>ed)</u>	
Secti	ion D - Distributions				Current Year
1	1 Amounts paid to supported organizations to accomplish exempt purposes				
2	Amounts paid to perform activity that directly furthers exem				
	organizations, in excess of income from activity		2		
3	Administrative expenses paid to accomplish exempt purpos		3		
4	Amounts paid to acquire exempt-use assets			4	
5	Qualified set-aside amounts (prior IRS approval required - pa	rovide details in Part VI)		5	
6	Other distributions (describe in Part VI). See instructions.			6	
7	Total annual distributions. Add lines 1 through 6.			7	
8	Distributions to attentive supported organizations to which t	the organization is responsive			
	(provide details in Part VI). See instructions.			8	
9	Distributable amount for 2020 from Section C, line 6			9	
10	Line 8 amount divided by line 9 amount			10	
Secti	ion E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistribution Pre-2020	s	(iii) Distributable Amount for 2020
1	Distributable amount for 2020 from Section C, line 6				
2	Underdistributions, if any, for years prior to 2020 (reason-				
	able cause required - explain in Part VI). See instructions.				
3	Excess distributions carryover, if any, to 2020				
а	From 2015				
b	From 2016				
С	From 2017				
d	From 2018				
е	From 2019				
f	Total of lines 3a through 3e				
g	Applied to underdistributions of prior years				
h	Applied to 2020 distributable amount				
i	Carryover from 2015 not applied (see instructions)				
j	Remainder. Subtract lines 3g, 3h, and 3i from line 3f.				
4	Distributions for 2020 from Section D,				
	line 7: \$				
а	Applied to underdistributions of prior years				
b	Applied to 2020 distributable amount				
С	Remainder. Subtract lines 4a and 4b from line 4.				
5	Remaining underdistributions for years prior to 2020, if				
	any. Subtract lines 3g and 4a from line 2. For result greater				
	than zero, explain in Part VI. See instructions.				
6	Remaining underdistributions for 2020. Subtract lines 3h				
	and 4b from line 1. For result greater than zero, explain in				
	Part VI. See instructions.				
7	Excess distributions carryover to 2021. Add lines 3j				
	and 4c.				
8	Breakdown of line 7:				
а	Excess from 2016				
b	Excess from 2017				
С	Excess from 2018				
	Excess from 2019				
е	Excess from 2020				

Schedule A (Form 990 or 990-EZ) 2020

Schedule A	(Form 990 or 990-EZ) 2020 BRIGHTFOCUS FOUNDATION 23-7337229 Page 8
Part VI	Supplemental Information. Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12;
	Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C,
	line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a, and 3b; Part V, line 1; Part V, Section B, line 1e; Part V,
	Intel 1, Part IV, Section D, lines 2 and 3, Part IV, Section E, lines 1C, 2a, 2b, 3a, and 3b, Part V, line 1, Part V, Section B, line 1e, Part V,
	Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information.
	(See instructions.)
-	

## Schedule B

(Form 990, 990-EZ, or 990-PF)

Department of the Treasury Internal Revenue Service

#### **Schedule of Contributors**

➤ Attach to Form 990, Form 990-EZ, or Form 990-PF.

➤ Go to www.irs.gov/Form990 for the latest information.

OMB No. 1545-0047

2020

Name of the organization Employer identification number

BRIGHTFOCUS FOUNDATION 23-7337229

Organization type (check one):

Filers of:		Section:			
		X 501(c)( 3 ) (enter number) organization			
Form 990	or 990-EZ	(c)( ) (enter number) organization			
		4947(a)(1) nonexempt charitable trust <b>not</b> treated as a private foundation			
		527 political organization			
Form 990	)-PF	501(c)(3) exempt private foundation			
		4947(a)(1) nonexempt charitable trust treated as a private foundation			
		501(c)(3) taxable private foundation			
	=	covered by the <b>General Rule</b> or a <b>Special Rule</b> . 7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions.			
General	Rule				
	For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, contributions totaling \$5,000 or more (in money or property) from any one contributor. Complete Parts I and II. See instructions for determining a contributor's total contributions.				
Special I	Rules				
	For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 exclusively for religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals. Complete Parts I (entering "N/A" in column (b) instead of the contributor name and address), II, and III.				
	year, contributions is checked, enter he purpose. Don't com	described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the exclusively for religious, charitable, etc., purposes, but no such contributions totaled more than \$1,000. If this box ere the total contributions that were received during the year for an exclusively religious, charitable, etc., applete any of the parts unless the <b>General Rule</b> applies to this organization because it received nonexclusively etc., contributions totaling \$5,000 or more during the year			
Caution: An organization that isn't covered by the General Rule and/or the Special Rules doesn't file Schedule B (Form 990, 990-EZ, or 990-PF), but it must answer "No" on Part IV, line 2, of its Form 990; or check the box on line H of its Form 990-EZ or on its Form 990-PF, Part I, line 2, to certify that it doesn't meet the filing requirements of Schedule B (Form 990, 990-EZ, or 990-PF).					

 $\ \ \, \text{LHA} \ \ \, \text{For Paperwork Reduction Act Notice, see the instructions for Form 990, 990-EZ, or 990-PF.}$ 

Schedule B (Form 990, 990-EZ, or 990-PF) (2020)

Employer identification number Name of organization

## BRIGHTFOCUS FOUNDATION

23-7337229

Part I	Contributors (see instructions). Use duplicate copies of Part I if additional	space is needed.	
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
1		\$ 4,000,000.	Person X Payroll
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
2		\$ 1,914,408.	Person X Payroll  Noncash  (Complete Part II for noncash contributions.)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
3		\$ 982,990.	Person X Payroll
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
	Name, address, and Zir + 4	\$	Person Payroll Ocomplete Part II for noncash contributions.
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
		\$	Person Payroll Noncash  (Complete Part II for noncash contributions.)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
		\$	Person Payroll Ocomplete Part II for noncash contributions.)

Name of organization Employer identification number

## BRIGHTFOCUS FOUNDATION

23-7337229

Part II	Noncash Property (see instructions). Use duplicate copies of Part	II if additional space is needed.	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		     \$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
(a) No. from Part I	(b)  Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
(a) No. from Part I	(b)  Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
—		 	
(a) No. from Part I	(b)  Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
(a) No. from Part I	(b)  Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		  	000 000-E7 or 000-BE) (2020)

Name of organization Employer identification number BRIGHTFOCUS FOUNDATION 23-7337229 Part III Exclusively religious, charitable, etc., contributions to organizations described in section 501(c)(7), (8), or (10) that total more than \$1,000 for the year from any one contributor. Complete columns (a) through (e) and the following line entry. For organizations completing Part III, enter the total of exclusively religious, charitable, etc., contributions of \$1,000 or less for the year. (Enter this info. once.) Use duplicate copies of Part III if additional space is needed. (a) No. from Part I (b) Purpose of gift (c) Use of gift (d) Description of how gift is held (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee (a) No. from Part I (b) Purpose of gift (c) Use of gift (d) Description of how gift is held (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee (a) No. from Part I (c) Use of gift (b) Purpose of gift (d) Description of how gift is held (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee from (d) Description of how gift is held (b) Purpose of gift (c) Use of gift (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee

#### **SCHEDULE C**

(Form 990 or 990-EZ)

## **Political Campaign and Lobbying Activities**

For Organizations Exempt From Income Tax Under section 501(c) and section 527 Complete if the organization is described below. ► Attach to Form 990 or Form 990-EZ.

► Go to www.irs.gov/Form990 for instructions and the latest information.

Open to Public Inspection

OMB No. 1545-0047

Department of the Treasury Internal Revenue Service

If the organization answered "Yes," on Form 990, Part IV, line 3, or Form 990-EZ, Part V, line 46 (Political Campaign Activities), then

- Section 501(c)(3) organizations: Complete Parts I-A and B. Do not complete Part I-C.
- Section 501(c) (other than section 501(c)(3)) organizations: Complete Parts I-A and C below. Do not complete Part I-B.
- Section 527 organizations: Complete Part I-A only.

If the organization answered "Yes," on Form 990, Part IV, line 4, or Form 990-EZ, Part VI, line 47 (Lobbying Activities), then

- Section 501(c)(3) organizations that have filed Form 5768 (election under section 501(h)): Complete Part II-A. Do not complete Part II-B.
- Section 501(c)(3) organizations that have NOT filed Form 5768 (election under section 501(h)): Complete Part II-B. Do not complete Part II-A.

If the organization answered "Yes," on Form 990, Part IV, line 5 (Proxy Tax) (See separate instructions) or Form 990-EZ, Part V, line 35c (Proxy Tax) (See separate instructions), then

	Section 5	01(c)(4), (5), or (6) organizat	ions: Complete Part III.			
Nam	ne of orga	nization			Er	nployer identification number
			OCUS FOUNDATION			23-7337229
Pa	rt I-A	Complete if the org	anization is exempt und	er section 501(c) o	or is a section 527	organization.
2	Political	campaign activity expendit	ation's direct and indirect politic ures gn activities		<b>)</b>	<b>▶</b> \$
Pa	rt I-B	Complete if the org	anization is exempt und	er section 501(c)(3	3).	
1	Enter the					<b>\$</b>
2	Enter the	amount of any excise tax	incurred by organization manag	ers under section 4955	<b>)</b>	<b>*</b> \$
			n 4955 tax, did it file Form 4720			
4a	Was a co	orrection made?				Yes No
		describe in Part IV.				
_			anization is exempt und		-	(c)(3).
			I by the filing organization for se			<b>&gt;</b> \$
2		0 0	ization's funds contributed to ot	•		
_						<b>&gt;</b> \$
3		•	. Add lines 1 and 2. Enter here a	,		- Φ
4			1120-POL for this year?			
			nployer identification number (El			
•			tion listed, enter the amount pai		=	
	•	,	omptly and directly delivered to	0 0		' '
	political	action committee (PAC). If a	additional space is needed, prov	vide information in Part <b>I</b> '	V.	
		(a) Name	(b) Address	(c) EIN	(d) Amount paid from filing organization's funds. If none, enter-	contributions received and
					Turius. Il riorie, eriter -	delivered to a separate political organization.  If none, enter -0

For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Schedule C (Form 990 or 990-EZ) 2020

LHA

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					J J J J J J J J J J J J J J J J J J J
Part II-A Complete if the org	janization is exen	npt under section	501(c)(3) and file	ed Form 5768 (ele	ction under
expenses, and sha	re of excess lobbying e	expenditures).		group member's name	e, address, EIN,
Lim	ation checked box A ar its on Lobbying Exper ditures" means amou	nditures	visions apply.	(a) Filing organization's totals	<b>(b)</b> Affiliated group totals
1a Total lobbying expenditures to infl	uence public opinion (g	grassroots lobbying)		0.	
<b>b</b> Total lobbying expenditures to infl	uence a legislative bod	ly (direct lobbying)		0.	
c Total lobbying expenditures (add I	ines 1a and 1b)			0.	
d Other exempt purpose expenditur	es			51,200,024.	
e Total exempt purpose expenditure	es (add lines 1c and 1d	)		51,200,024.	
f Lobbying nontaxable amount. Ent	er the amount from the	following table in both	n columns.	1,000,000.	
If the amount on line 1e, column (a) o	or (b) is: The lob	bying nontaxable am	ount is:		
Not over \$500,000	20% of	the amount on line 1e.			
Over \$500,000 but not over \$1,00	0,000 \$100,00	00 plus 15% of the exce	ess over \$500,000.		
Over \$1,000,000 but not over \$1,5	500,000 \$175,00	00 plus 10% of the exce	ess over \$1,000,000.		
Over \$1,500,000 but not over \$17	,000,000 \$225,00	00 plus 5% of the exces	ss over \$1,500,000.		
Over \$17,000,000	\$1,000,	000.			
			•		
g Grassroots nontaxable amount (er	nter 25% of line 1f)			250,000.	
h Subtract line 1g from line 1a. If zer	o or less, enter -0-			0.	
i Subtract line 1f from line 1c. If zero	o or less, enter -0			0.	
j If there is an amount other than ze	ero on either line 1h or l	line 1i, did the organiza	ation file Form 4720		
reporting section 4911 tax for this	year?				Yes No
(Some organizations t	hat made a section 50	eraging Period Under 01(h) election do not l ate instructions for lin	nave to complete all o	of the five columns be	elow.
	Lobbying Exper	nditures During 4-Yea	r Averaging Period		
Calendar year (or fiscal year beginning in)	<b>(a)</b> 2017	<b>(b)</b> 2018	( <b>c)</b> 2019	(d) 2020	(e) Total
2a Lobbying nontaxable amount	1,000,000.	1,000,000.	1,000,000.	1,000,000.	4,000,000.
<b>b</b> Lobbying ceiling amount (150% of line 2a, column(e))					6,000,000.
c Total lobbying expenditures					
d Grassroots nontaxable amount	250,000.	250,000.	250,000.	250,000.	1,000,000.
e Grassroots ceiling amount (150% of line 2d, column (e))					1,500,000.
	1	i .		i	1

Schedule C (Form 990 or 990-EZ) 2020

## Schedule C (Form 990 or 990-EZ) 2020 BRIGHTFOCUS FOUNDATION 23-73372 Part II-B Complete if the organization is exempt under section 501(c)(3) and has NOT filed Form 5768 (election under section 501(h)).

the lobbying activity.  During the year, did the filing organization attempt to influence foreign, national, state, or				b)
During the year, did the filing organization attempt to influence foreign, national, state, or	Yes	No	Am	ount
buring the year, did the liling organization attempt to inhidence foreign, hational, state, or				
local legislation, including any attempt to influence public opinion on a legislative matter				
or referendum, through the use of:				
a Volunteers?				
<b>b</b> Paid staff or management (include compensation in expenses reported on lines 1c through 1i)?				
c Media advertisements?				
d Mailings to members, legislators, or the public?				
e Publications, or published or broadcast statements?				
f Grants to other organizations for lobbying purposes?				
g Direct contact with legislators, their staffs, government officials, or a legislative body?			-	
h Rallies, demonstrations, seminars, conventions, speeches, lectures, or any similar means?				
i Other activities?			_	
j Total. Add lines 1c through 1i				
a Did the activities in line 1 cause the organization to be not described in section 501(c)(3)?				
b If "Yes," enter the amount of any tax incurred under section 4912			_	
c If "Yes," enter the amount of any tax incurred by organization managers under section 4912				
d If the filing organization incurred a section 4912 tax, did it file Form 4720 for this year?  art III-A Complete if the organization is exempt under section 501(c)(4), section	n 501/o\/	<u>5</u> \	otion	
501(c)(6).	) (C) (C)	o, or se	Clion	
			Yes	N
		1		
Were substantially all (90% or more) dues received nondeductible by members?				
Were substantially all (90% or more) dues received nondeductible by members?  Did the organization make only in-house lobbying expenditures of \$2,000 or less?				
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the art III-B  Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered	ne prior year n 501(c)(	2 ? 3 5), or se		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the art III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."	ne prior year on 501(c)(i "No" OR	2 3 5), or se (b) Part		9 3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the art III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members	ne prior year on 501(c)(l "No" OR	2 3 5), or se (b) Part		9 3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the art III-B  Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members	ne prior year on 501(c)(l "No" OR	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the last III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members  Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of politic expenses for which the section 527(f) tax was paid).	ne prior year on 501(c)(i "No" OR	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the cart III-B  Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members  Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).  Current year	ne prior year in 501(c)(i "No" OR	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the cart III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).  a Current year  b Carryover from last year	ne prior year on 501(c)(l "No" OR	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the last III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members  Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of politic expenses for which the section 527(f) tax was paid).  a Current year  b Carryover from last year  c Total	ne prior year on 501(c)(l "No" OR	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the last III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members  Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of politic expenses for which the section 527(f) tax was paid).  a Current year  b Carryover from last year  c Total	ne prior year on 501(c)(i "No" OR	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the cart III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members  Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).  a Current year  b Carryover from last year  c Total  Aggregate amount reported in section 6033(e)(1)(A) notices of nondeductible section 162(e) dues	ne prior year on 501(c)(i "No" OR cal	2 3 5), or se (b) Part		3, is
Did the organization make only in-house lobbying expenditures of \$2,000 or less?  Did the organization agree to carry over lobbying and political campaign activity expenditures from the last III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."  Dues, assessments and similar amounts from members  Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of politic expenses for which the section 527(f) tax was paid).  a Current year  b Carryover from last year  c Total  Aggregate amount reported in section 6033(e)(1)(A) notices of nondeductible section 162(e) dues  If notices were sent and the amount on line 2c exceeds the amount on line 3, what portion of the exceeds the amount on line 3, what portion of the exceeds the amount on line 3, what portion of the exceeds the amount on line 3, what portion of the exceeds the amount on line 3, what portion of the exceeds the amount on line 3, what portion of the exceeds the amount on line 3.	ne prior year on 501(c)( "No" OR cal	2 3 5), or se (b) Part  2 2a 2b 2c 3		3, is

Schedule C (Form 990 or 990-EZ) 2020

#### **SCHEDULE D** (Form 990)

Department of the Treasury

Internal Revenue Service

Supplemental Financial Statements

► Complete if the organization answered "Yes" on Form 990,
Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.

► Attach to Form 990.

► Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047 Inspection

Name of the organization

BRIGHTFOCUS FOUNDATION

**Employer** identification number 23-7337229

Pai	rt I Organizations Maintaining Donor Advise	d Funds or Other Similar Funds	or Accounts. Complete if the
	organization answered "Yes" on Form 990, Part IV, lir	ne 6.	
		(a) Donor advised funds	(b) Funds and other accounts
1	Total number at end of year		
2	Aggregate value of contributions to (during year)		
3	Aggregate value of grants from (during year)		
4	Aggregate value at end of year		
5	Did the organization inform all donors and donor advisors in	writing that the assets held in donor advise	ed funds
	are the organization's property, subject to the organization's	exclusive legal control?	Yes No
6	Did the organization inform all grantees, donors, and donor a	advisors in writing that grant funds can be u	used only
	for charitable purposes and not for the benefit of the donor of	or donor advisor, or for any other purpose o	conferring
Pai	rt II Conservation Easements. Complete if the or	ganization answered "Yes" on Form 990, F	Part IV, line 7.
1	Purpose(s) of conservation easements held by the organizati	ion (check all that apply).	
	Preservation of land for public use (for example, recrea	ation or education) Preservation of	a historically important land area
	Protection of natural habitat	Preservation of	a certified historic structure
	Preservation of open space		
2	Complete lines 2a through 2d if the organization held a quali	fied conservation contribution in the form of	
	day of the tax year.		Held at the End of the Tax Year
а			
b	, , , , , , , , , , , , , , , , , , , ,		
С			
d	( )		
_	listed in the National Register		
3	Number of conservation easements modified, transferred, rel	leased, extinguished, or terminated by the	organization during the tax
	year		
4	Number of states where property subject to conservation eas		
5	Does the organization have a written policy regarding the per		□ Vaa □ Na
6	violations, and enforcement of the conservation easements in Staff and volunteer hours devoted to monitoring, inspecting,		
6	Stan and volunteer nours devoted to morntoning, inspecting,	Thandling of violations, and emorcing cons	ervation easements during the year
7	Amount of expenses incurred in monitoring, inspecting, hand	dling of violations, and enforcing conservat	ion easements during the year
•	<b>▶</b> \$	and children and children g concervat	non outsine daming the year
8	Does each conservation easement reported on line 2(d) above	ve satisfy the requirements of section 170/h	n)(4)(B)(i)
	and section 170(h)(4)(B)(ii)?		
9	In Part XIII, describe how the organization reports conservati		
	balance sheet, and include, if applicable, the text of the footr	note to the organization's financial stateme	ents that describes the
	organization's accounting for conservation easements.		
Pai	rt III Organizations Maintaining Collections of	f Art, Historical Treasures, or Otl	her Similar Assets.
	Complete if the organization answered "Yes" on Form	n 990, Part <b>I</b> V, line 8.	
1a	If the organization elected, as permitted under FASB ASC 95	58, not to report in its revenue statement a	nd balance sheet works
	of art, historical treasures, or other similar assets held for pul	blic exhibition, education, or research in fu	rtherance of public
	service, provide in Part XIII the text of the footnote to its final	ncial statements that describes these item:	S.
b	If the organization elected, as permitted under FASB ASC 95	•	
	art, historical treasures, or other similar assets held for public	c exhibition, education, or research in furth	erance of public service,
	provide the following amounts relating to these items:		
	(i) Revenue included on Form 990, Part VIII, line 1		<b>&gt;</b> \$
2	If the organization received or held works of art, historical tre		gain, provide
	the following amounts required to be reported under FASB A	•	
а	, , , , , , , , , , , , , , , , , , , ,		
b	Assets included in Form 990, Part X		<b>&gt;</b> \$

Schedule D (Form 990) 2020

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Pai	t III   Organizations Maintaining C	ollections of Ar	t, Historical Tre	easures, or Ot	her Si	imilar Asse	ts (conti	nued)	
3	Using the organization's acquisition, accession	on, and other records	s, check any of the	following that mak	ke signif	icant use of it	5	·	
	collection items (check all that apply):								
а	Public exhibition	d	Loan or exc	change program					
b	Scholarly research	е	Other						
С	Preservation for future generations								
4	Provide a description of the organization's co	ollections and explain	n how they further t	he organization's e	exempt	purpose in Pa	rt XIII.		
5	During the year, did the organization solicit o	r receive donations o	of art, historical trea	sures, or other sim	nilar ass	ets			
	to be sold to raise funds rather than to be ma						Yes		No
Pai	t IV Escrow and Custodial Arrang	gements. Comple	ete if the organization	on answered "Yes'	" on For	m 990, Part <b>I</b> \	/, line 9, oı	r	
	reported an amount on Form 990, Par	t X, line 21.							
<b>1</b> a	Is the organization an agent, trustee, custodi-	an or other intermed	iary for contributior	s or other assets r	not incl	uded _			_
	on Form 990, Part X?					[	Yes		No
b	If "Yes," explain the arrangement in Part XIII								
							Amour	nt	
С	Beginning balance					1c			
d	Additions during the year					1d			
е	Distributions during the year					1e			
f	Ending balance					1f			
<b>2</b> a	Did the organization include an amount on Fo	orm 990, Part X, line	21, for escrow or c	ustodial account li	iability?	L	Yes		_ No
_	If "Yes," explain the arrangement in Part XIII.								
Pai	T V Endowment Funds. Complete i	f the organization an	swered "Yes" on F	orm 990, Part IV, li	ne 10.				
		(a) Current year	(b) Prior year	(c) Two years bad		Three years bac	<del></del>	_	
1a	Beginning of year balance	302,000.	302,000.	1		90,000	_		000.
b	Contributions	14,744.	14,778.	<del> </del>	_	234,806	_	4,	332.
С	Net investment earnings, gains, and losses			-18,00	0.	10,000	٠.		
d	Grants or scholarships				_				
е	Other expenditures for facilities								
	and programs	14,744.	14,778.	14,38	5.	14,806	•	4,	332.
f	Administrative expenses								
g	End of year balance	302,000.	302,000.	· · · · · · · · · · · · · · · · · · ·	0.	320,000	· l	90,	000.
2	Provide the estimated percentage of the curr		· -	a)) held as:					
а	Board designated or quasi-endowment	.0000	_%						
b	Permanent endowment ► 100	%							
С		%							
	The percentages on lines 2a, 2b, and 2c show	•							
3a	Are there endowment funds not in the posses	ssion of the organiza	tion that are held a	nd administered fo	or the o	rganization			Γ
	by:						- m	Yes	No
	(i) Unrelated organizations							X	v
	(ii) Related organizations								X
_	If "Yes" on line 3a(ii), are the related organiza						3b		
Pai	Describe in Part XIII the intended uses of the tVI Land, Buildings, and Equipm		wment tunas.						
ı aı	Complete if the organization answered		Dort IV line 11e 9	Coo Form 000 Por	+ V lina	10			
							(d) Doc	ا د د ماد د	
	Description of property	(a) Cost or o basis (investn	` '	t or other (other)	depred	mulated	( <b>d</b> ) Boo	ok valu	ie
	Land	2 000		7,363.	асрісс	Sidelori	3,94	7 3	63
	Land	4 500			3 63	4,307.	3,23		
	Buildings Leasehold improvements		3,25	20,323.	, 05	=,3010	5,45	<i>J</i> , 0	<u> </u>
			1 66	8,672. 1	1.05	3,285.	61	5,3	87
	Equipment Other			29,198.		6,587.		$\frac{3,3}{2,6}$	
	L. Add lines 1a through 1e. (Column (d) must e						7,83		
<u>ı Uldı</u>	ii 700 ii 100 Ta tii 100git Te. (Cojumin (a) Must e	<u> </u>	A. COIUITIII (B), IINE	<u> 10c.)</u>			ule D (For		

(3) RENTAL DEPOSITS 2	- Page
(1) Financial derivatives (2) Closely held equity interests (3) Other (A) (B) (C) (C) (D) (E) (F) (G) (G) (F) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G	et value
(2) Closely held equity interests (3) Other (A) (B) (C) (C) (D) (E) (F) (G) (G) (F) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G	et value
(3) Other (A) (B) (C) (C) (D) (E) (F) (G) (H) (H) (H) (H) (H) (H) (H) (H) (H) (H	
(A) (B) (C) (C) (D) (E) (F) (G) (F) (G) (F) (G) (F) (F) (F) (G) (F) (F) (F) (G) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F	
(B) (C) (D) (E) (F) (G) (G) (F) (G) (G) (F) (F) (G) (F) (G) (F) (F) (G) (F) (F) (G) (F) (F) (G) (F) (G) (F) (F) (G) (G) (F) (G) (G) (G) (H) (H) (H) (H) (H) (H) (H) (H) (H) (H	
(C) (D) (E) (F) (G) (H) Total. (Col. (b) must equal form 990, Part X, col. (8) line 12, ) ▶  Part VIII Investments - Program Related.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.  (a) Description of investment (b) Book value (c) Method of valuation: Cost or end-of-year marke (1) (2) (3) (4) (5) (6) (77) (8) (9) (9) Part IX Other Assets.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.  (a) Description (b) must equal Form 990, Part X, col. (B) line 13.) ▶  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.  (a) Description (b) Book (1) (b) Book (1) (c) (a) Description (b) must equal Form 990, Part X, col. (B) line 15.) ▶  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.  1. (a) Description of liability (b) Book (1) Federal income taxes (2) CHARITABLE GIFT ANNUITIES (2) RENTAL DEPOSITS	
(D) (E) (F) (G) (H) (H) (F) (G) (H) (F) (G) (H) (F) (G) (H) (F) (G) (H) (H) (H) (H) (H) (H) (H) (H) (H) (H	
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(G) (H) Total. (Col. (b) must equal Form 990, Part X, col. (B) line 12.) ▶    Part VIII   Investments - Program Related.   Complete if the organization answered "Yes" on Form 990, Part IV. line 11c. See Form 990, Part X, line 13.  (a) Description of investment (b) Book value (c) Method of valuation: Cost or end-of-year marke (1) (2) (3) (4) (5) (6) (77) (8) (9)   Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.) ▶   Part IX   Other Assets.   Complete if the organization answered "Yes" on Form 990, Part IV. line 11d. See Form 990, Part X, line 15.  (a) Description (b) Book (1) (2) (3) (4) (5) (6) (7) (8) (9)   Total. (Col. (m) investment (b) must equal Form 990, Part X, col. (B) line 15.) ▶   Part IX   Other Liabilities.   Complete if the organization answered "Yes" on Form 990, Part IV. line 11d. See Form 990, Part X, line 25.  (a) Complete if the organization answered "Yes" on Form 990, Part IV. line 11d. See Form 990, Part X, line 25.  (b) Book (1) (c) Part X   Other Liabilities.   Complete if the organization answered "Yes" on Form 990, Part IV. line 11e or 11f. See Form 990, Part X, line 25.  (b) Book (1) Federal income taxes (c) CHARITABLE GIFT ANNUITIES (3) (a) RENTAL DEPOSITS	
(ht.) (Col. (b) must equal Form 990, Part X, col. (B) line 12.) ▶    Part VIII   Investments - Program Related.	
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Part VIII   Investments - Program Related.   Complete if the organization answered "Yes" on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.   (a) Description of investment   (b) Book value   (c) Method of valuation: Cost or end-of-year marke	
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(3)	
(4) (5) (6) (7) (8) (9) Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.) ▶  Part IX Other Assets.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11d, See Form 990, Part X, line 15.  (a) Description (b) Book (1) (2) (3) (4) (5) (6) (7) (8) (9)  Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.)  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.  1. (a) Description of liability (b) Book (1) Federal income taxes (2) CHARITABLE GIFT ANNUITIES 87.  3) RENTAL DEPOSITS	
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10   10   10   10   10   10   10   10	
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.) ▶    Part IX   Other Assets.	
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.) ▶  Part IX Other Assets.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.  (a) Description (b) Book  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (8)  (9)  Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.)  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.  1. (a) Description of liability (b) Book  (1) Federal income taxes  (2) CHARITABLE GIFT ANNUITIES 877-  (3) RENTAL DEPOSITS	
Part IX Other Assets.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.  (a) Description (b) Book  (1) (2) (3) (4) (5) (6) (7) (8) (9)  Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.)  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.  1. (a) Description of liability (b) Book  (1) Federal income taxes  (2) CHARITABLE GIFT ANNUITIES 87-  (3) RENTAL DEPOSITS	
(a) Description (b) Book  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (8)  (9)   Total. (Column (b) must equal Form 990. Part X. col. (B) line 15.)  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.  1. (a) Description of liability (b) Book  (1) Federal income taxes  (2) CHARITABLE GIFT ANNUITIES 87-  (3) RENTAL DEPOSITS	
(a) Description (b) Book  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (8)  (9)  Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.)  Part X Other Liabilities.  Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.  1. (a) Description of liability (b) Book  (1) Federal income taxes  (2) CHARITABLE GIFT ANNUITIES 87-  (3) RENTAL DEPOSITS	
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1.       (a) Description of liability       (b) Book         (1) Federal income taxes       20 CHARITABLE GIFT ANNUITIES       874         (3) RENTAL DEPOSITS       21	
(1) Federal income taxes (2) CHARITABLE GIFT ANNUITIES 874 (3) RENTAL DEPOSITS 2	lk voluo
(2) CHARITABLE GIFT ANNUITIES 87- (3) RENTAL DEPOSITS 21	k value
(3) RENTAL DEPOSITS	74 560
	74,569
(4) CAPITAL LEASE OBLIGATIONS	25,000
<u>,,,                                  </u>	52,305
(5)	
(6)	
(7)	
(8)	
(9)	
	51,874

organization's liability for uncertain tax positions under FASB ASC 740. Check here if the text of the footnote has been provided in Part XIII

Pai	Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.	ts wii	ın nevenue per ne	turn.	
1	Total revenue, gains, and other support per audited financial statements			1	69,909,311.
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12:				
а	Net unrealized gains (losses) on investments	2a	8,115,799.		
b	Donated services and use of facilities	2b	10,280,294.		
	Recoveries of prior year grants	2c	518,962.		
d	Other (Describe in Part XIII.)	2d			
е	Add lines 2a through 2d			2e	18,915,055.
3	Subtract line 2e from line 1			3	50,994,256.
4	Amounts included on Form 990, Part VIII, line 12, but not on line 1:				
а	Investment expenses not included on Form 990, Part VIII, line 7b	4a	293,916.		
b	Other (Describe in Part XIII.)	4b	-41,780.		
С	Add lines 4a and 4b			4c	252,136.
5	Total revenue. Add lines 3 and 4c. (This must equal Form 990, Part I, line 12.)			5	51,246,392.
Pa	t XII Reconciliation of Expenses per Audited Financial Statemer	nts W	ith Expenses per F	Retur	n.
	Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.				
1	Total expenses and losses per audited financial statements			_1_	62,267,758.
2	Amounts included on line 1 but not on Form 990, Part IX, line 25:				
а	Donated services and use of facilities	2a	10,280,294.		
b	Prior year adjustments	2b			
С	Other losses	2c			
d	Other (Describe in Part XIII.)	2d			
е	Add lines 2a through 2d			2e	10,280,294.
3	Subtract line 2e from line 1			3	51,987,464.
4	Amounts included on Form 990, Part IX, line 25, but not on line 1:				
а	Investment expenses not included on Form 990, Part VIII, line 7b	4a	293,916.		
b	Other (Describe in Part XIII.)	4b	-49,005.		
	Add lines 4a and 4b			4c	244,911.
5	Total expenses. Add lines 3 and 4c. (This must equal Form 990, Part I, line 18.)			5	52,232,375.
Pa	t XIII Supplemental Information.				
Prov	de the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a and 4; Part IV	/, lines	1b and 2b; Part V, line 4	; Part	X, line 2; Part XI,
lines	2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to provide any additi	onal inf	ormation.		
PAI	RT V, LINE 4:				
THE	E EARNINGS ON THIS ENDOWMENT ARE AVAILABLE I	FOR	THE ALZHEIME	R'S	DISEASE
RES	SEARCH PROGRAM, ARE RECORDED AS TEMPORARILY	RES	TRICTED INVE	STM	ENT
INC	COME. AND ARE RELEASED AS SPENT.				

### PART X, LINE 2:

BRIGHTFOCUS PERFORMED AN EVALUATION OF UNCERTAINTY IN INCOME TAXES FOR THE YEAR ENDED MARCH 31, 2021, AND DETERMINED THAT THERE WERE NO MATTERS THAT WOULD REQUIRE RECOGNITION IN THE CONSOLIDATED FINANCIAL STATEMENTS OR THAT MAY HAVE ANY EFFECT ON ITS TAX-EXEMPT STATUS.

PART XI, LINE 4B - OTHER ADJUSTMENTS:

#### SCHEDULE F (Form 990)

Department of the Treasury

Internal Revenue Service

### **Statement of Activities Outside the United States**

Complete if the organization answered "Yes" on Form 990, Part IV, line 14b, 15, or 16.

Attach to Form 990.

▶ Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047 Open to Public Inspection

Name of the organization

**Employer** identification number

BRIGHT	FOCU	FOUNDATION	23-7337229
Part I	Gene	al Information on Activities Outside the United States.	Complete if the organization answered "Yes" on
	_		

Form 990, Part IV, line 14b. For grantmakers. Does the organization maintain records to substantiate the amount of its grants and other assistance, X Yes the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? For grantmakers. Describe in Part V the organization's procedures for monitoring the use of its grants and other assistance outside the United States. 3 Activities per Region. (The following Part I, line 3 table can be duplicated if additional space is needed.) (e) If activity listed in (d) (b) Number of (a) Region (c) Number of (d) Activities conducted in the region (f) Total employees, agents, and (by type) (such as, fundraising, proexpenditures offices is a program service, for and in the region gram services, investments, grants to describe specific type independent investments contractors recipients located in the region) of service(s) in the region in the region in the region EUROPE 0 0 GRANTMAKING 3,663,284. EAST ASIA AND THE 0 PACIFIC 0 GRANTMAKING 1,394,634. NORTH AMERICA -CANADA AND MEXICO, BUT NOT THE UNITED 0 n STATES GRANTMAKING 946,406. MIDDLE EAST AND NORTH AFRICA 0 GRANTMAKING 200,000. 6,204,324. 3 a Subtotal **b** Total from continuation 0 0 0. sheets to Part I c Totals (add lines 3a 0 6,204,324.

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule F (Form 990) 2020

and 3b)

Schedule F (Form 990) 2020 BRI

Grants and Other Assistance to Organizations or Entities Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 15, for any recipient who received more than \$5,000. Part II can be duplicated if additional space is needed. Part II

1 (a) Name of organization	(b) IRS code section and EIN (if applicable)	(c) Region	(d) Purpose of grant	(e) Amount of cash grant	(f) Manner of cash disbursement	(g) Amount of noncash assistance	(h) Description of noncash assistance	(i) Method of valuation (book, FMV, appraisal, other)
			ALZHEIMER'S DISEASE					
			RESEARCH BY WHITNEY					
			FREEZE, PHD,					
		EUROPE	ENTITLED: (A2021007F)	200,000.	200,000.WIRE TRANSFER	0.		
			ALZHEIMER'S DISEASE					
			RESEARCH BY EMIL					
			GUSTAVSSON, PHD,					
		EUROPE	ENTITLED: (A2021009F)	199,575.	WIRE TRANSFER	0.		
			ALZHEIMER'S DISEASE					
			RESEARCH BY ALEXA					
			PICHET BINETTE, PHD,					
		EUROPE	ENTITLED: (A2021013F)	200,000.	WIRE TRANSFER	0		
			ALZHEIMER'S DISEASE					
			RESEARCH BY MAXIME					
			VAN EGROO, PHD,					
		EUROPE	ENTITLED: (A2021016F)	200,000.	WIRE TRANSFER	0.		
			ALZHEIMER'S DISEASE					
			RESEARCH BY XIAOFEN					
		EAST ASIA &	CHEN, PHD, ENTITLED:					
		PACIFIC	(A2021023S)	300,000.	300,000.WIRE TRANSFER	0.		
			ALZHEIMER'S DISEASE					
			RESEARCH BY NICOLAI					
			FRANZMEIER, PHD,					
		EUROPE	ENTITLED: (A2021026S)	297,300.	297,300. WIRE TRANSFER	0.		
			ALZHEIMER'S DISEASE					
			RESEARCH BY HENNE					
			HOLSTEGE, PHD,					
		EUROPE	ENTITLED: (A2021031S)	299,707.	WIRE TRANSFER	0.		
			ALZHEIMER'S DISEASE					
			HONG, PHD, ENTITLED:					
		EUROPE	(A2021032S)	300,000	300,000. WIRE TRANSFER	0.		

Enter total number of recipient organizations listed above that are recognized as charities by the foreign country, recognized as a tax exempt 501(c)(3) organization by the IRS, or for which the grantee or counsel has provided a section 501(c)(3) equivalency letter N

Enter total number of other organizations or entities

COPY

Schedule F (Form 990) 2020

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SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (D)

Page 2		(i) Method of valuation (book, FMV, appraisal, other)																																			
	(	(h) Description of non-cash assistance																																			
23-7337229	90), Part II, line 1	(g) Amount of non-cash assistance			,	0			0.				0.				0				0.				0				0.				0				0.
23-73	(Schedule F (Form 990), Part II, line	(f) Manner of cash disbursement				WIRE TRANSFER			WIRE TRANSFER				WIRE TRANSFER				WIRE TRANSFER				299,800, WIRE TRANSFER				WIRE TRANSFER				WIRE TRANSFER				WIRE TRANSFER				WIRE TRANSFER
	[	(e) Amount of cash grant				199,568.			289,650.				300,000				297,266.				299,800.				300,000				56,836.				72,046.				149,999.
ATION	tions or Entities Outside the United States.	(d) Purpose of grant	ALZHEIMER'S DISEASE	RESEARCH BY RENZO	MANCUSO, PHD,	ENTITLED: (A2021034S)	RESEARCH BY JONAS	NEHER, PHD, ENTITLED:	(A2021035S)	ALZHEIMER'S DISEASE	RESEARCH BY JEROME	ROBERT, PHD,	ENTITLED: (A2021037S)	ALZHEIMER'S DISEASE	RESEARCH BY TIMOTHY	SARGEANT, PHD,	ENTITLED: (A2021040S)	ALZHEIMER'S DISEASE	RESEARCH BY SUSANNE	WEGMANN, PHD,	ENTITLED: (A2021044S)	ALZHEIMER'S DISEASE	RESEARCH BY CHERYL	WELLINGTON, PHD,	ENTITLED: (A2021045S)	ALZHEIMER'S DISEASE	REASEARCH BY SANJEEV	KUMAR, MD, ENTITLED:	(A2018667S)	ALZHEIMER'S DISEASE	RESEARCH BY DR.	MARIANNE LEGER	ENTITLED: (CA2021013)	NATIONAL GLAUCOMA	RESEARCH BY ESTER	REINA-TORRES, PHD,	ENTITLED: (G2021004F)
BRIGHTFOCUS FOUNDATION	Continuation of Grants and Other Assistance to Organizations or	(c) Region				EUROPE			EUROPE				EUROPE			EAST ASIA &	PACIFIC				EUROPE				NORTH AMERICA				NORTH AMERICA				EUROPE				EUROPE
BRIGH	Grants and Other	(b) IRS code section and EIN (if applicable)																																			
Schedule F (Form 990)	Part II Continuation of	1 (a) Name of organization																																			

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (D)

Page 2		(i) Method of valuation (book, FMV, appraisal, other)																																				
		(h) Description of non-cash assistance																																				
37229	90), Part II, line 1	(g) Amount of non-cash assistance				0				.0				0.				0				.0				0.				0.				0.				0.
23-7337229	(Schedule F (Form 990), Part II, line 1)	(f) Manner of cash disbursement				WIRE TRANSFER				WIRE TRANSFER				198,873. WIRE TRANSFER				WIRE TRANSFER				199,504. WIRE TRANSFER				WIRE TRANSFER				62,148. WIRE TRANSFER				WIRE TRANSFER				200,000. WIRE TRANSFER
	1	(e) Amount of cash grant				199,802.				200,000.				198,873.				200,000.				199,504.				391,901.				62,148.				189,570.				200,000.
ATION	tions or Entities Outside the United States.	(d) Purpose of grant	NATIONAL GLAUCOMA	RESEARCH BY PUYA	GHARAHKHANI, PHD,	ENTITLED: (G2021009S)	NATIONAL GLAUCOMA	RESEARCH BY MICHAEL	GIRARD, PHD,	ENTITLED: (G2021010S)	NATIONAL GLAUCOMA	RESEARCH BY PIRRO	HYSI, MD, PHD,	ENTITLED: (G2021011S)	NATIONAL GLAUCOMA	RESEARCH BY MICHAEL	REBER, PHD, ENTITLED:	(G2021014S)	NATIONAL GLAUCOMA	RESEARCH BY ZHICHAO	WU, PHD, ENTITLED:	(G2021016S)	NATIONAL GLAUCOMA	RESEARCH BY DARRYL	OVERBY, PHD,	ENTITLED: (CG2020003)	NATIONAL GLAUCOMA	RESEARCH BY DARRYL	OVERBY, PHD,	ENTITLED: (CG2020003A)	MACULAR DEGENERATION	RESEARCH BY BRITTANY	CARR, PHD, ENTITLED:	(M2021001F)	MACULAR DEGENERATION	RESEARCH BY RONY	CHIDIAC, PHD,	ENTITLED: (M2021003F)
BRIGHTFOCUS FOUNDATI	Continuation of Grants and Other Assistance to Organizations	(c) Region			EAST ASIA &	PACIFIC			EAST ASIA &	PACIFIC				EUROPE				NORTH AMERICA			EAST ASIA &	PACIFIC				EUROPE				EUROPE				NORTH AMERICA				NORTH AMERICA
BRIGH	Grants and Other	(b) IRS code section and EIN (if applicable)																																				
Schedule F (Form 990)	Part II Continuation of	1 (a) Name of organization																																				

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (D)

Page 2		(i) Method of valuation (book, FMV, appraisal, other)								
		(h) Description of non-cash assistance								
37229	90), Part II, line 1	(g) Amount of non-cash assistance		0		0				
23-7337229	(Schedule F (Form 990), Part II, line 1)	(f) Manner of cash disbursement		200,000. WIRE TRANSFER		WIRE TRANSFER				
	Γ	(e) Amount of cash grant		200,000.		198,062.				
ATION	Continuation of Grants and Other Assistance to Organizations or Entities Outside the United States.	(d) Purpose of grant	MACULAR DEGENERATION RESEARCH BY MICHELLE GRUNIN, PHD,	ENTITLED: (M2021006F)	MACULAK DEGENEKATION RESEARCH BY YVETTE	WOOFF, PHD, ENTITLED: (M2021012F)				
BRIGHTFOCUS FOUNDATION	Assistance to Organiza	(c) Region		MIDDLE EAST		EAST ASIA & PACIFIC				
BRIGH	Grants and Other	(b) IRS code section and EIN (if applicable)								
Schedule F (Form 990)	Continuation o	1 (a) Name of organization								
Schedu	Part II	<b>1</b> (a) Na								

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (D)

23-7337229

Part III Grants and Other Assistance to Individuals Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 16. Schedule F (Form 990) 2020

BRIGHTFOCUS FOUNDATION

Part III can be duplicated if additional space is needed.

(h) Method of valuation (book, FMV, appraisal, other)					Schedule F (Form 990) 2020
(g) Description of noncash assistance					Sched
(f) Amount of noncash assistance					
(e) Manner of cash disbursement					
(d) Amount of cash grant					
(c) Number of recipients					
(b) Region					
(a) Type of grant or assistance					

# Schedule F (Form 990) 2020 Part IV | Foreign Forms

1	Was the organization a U.S. transferor of property to a foreign corporation during the tax year? If "Yes," the organization may be required to file Form 926, Return by a U.S. Transferor of Property to a Foreign Corporation (see Instructions for Form 926)	Yes	X No
2	Did the organization have an interest in a foreign trust during the tax year? If "Yes," the organization may be required to separately file Form 3520, Annual Return To Report Transactions With Foreign Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A, Annual Information Return of Foreign Trust With a U.S. Owner (see Instructions for Forms 3520 and 3520-A; don't file with Form 990)	Yes	X No
3	Did the organization have an ownership interest in a foreign corporation during the tax year? If "Yes," the organization may be required to file Form 5471, Information Return of U.S. Persons With Respect to Certain Foreign Corporations (see Instructions for Form 5471)	Yes	X No
4	Was the organization a direct or indirect shareholder of a passive foreign investment company or a qualified electing fund during the tax year? If "Yes," the organization may be required to file Form 8621, Information Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund (see Instructions for Form 8621)	Yes	X No
5	Did the organization have an ownership interest in a foreign partnership during the tax year? If "Yes," the organization may be required to file Form 8865, Return of U.S. Persons With Respect to Certain Foreign Partnerships (see Instructions for Form 8865)	Yes	X No
6	Did the organization have any operations in or related to any boycotting countries during the tax year? If "Yes," the organization may be required to separately file Form 5713, International Boycott Report (see Instructions for Form 5713; don't file with Form 990)	Yes	X No

Schedule F (Form 990) 2020

### Part V | Supplemental Information

Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information. See instructions.

PART I, LINE 2:

BRIGHTFOCUS INTERACTS WITH ALL GRANTEES AT LEAST QUARTERLY BY E-MAIL OR AT SCIENTIFIC MEETINGS. IN ADDITION TO THESE INTERACTIONS, EACH GRANT RECIPIENT IS REQUIRED TO SUBMIT SEPARATE DETAILED ANNUAL SCIENTIFIC PROGRESS AND FINANCIAL REPORTS TO BRIGHTFOCUS. THESE ARE RECEIVED BY THE BRIGHTFOCUS SCIENTIFIC AFFAIRS DEPARTMENT, AND REVIEWED BY SCIENTIFIC STAFF WITH BROAD EXPERTISE, INCLUDING IMAGING, MOLECULAR BIOLOGY AND SIGNALING PATHWAYS, CELL BIOLOGY, ANGIOGENESIS, BIOCHEMISTRY, NEUROSCIENCE, AND GENETICS. SENIOR STAFF REVIEWS EACH PROGRESS REPORT AND EVALUATES THE PROJECT FOR SUFFICIENT PROGRESS TOWARDS THE SPECIFIC AIMS PROPOSED IN THE ORIGINAL APPLICATION OR ANY BUDGETARY CONCERNS. THIS EFFORT IS SUPPORTED BY ADDITIONAL SCIENTIFIC COUNSEL FROM MEMBERS OF THE BRIGHTFOCUS SCIENTIFIC REVIEW COMMITTEES, WHEN REQUIRED. IN ADDITION TO STATEMENTS OF EXPERIMENTAL PROGRESS, ALL GRANTEES ARE ASKED TO REPORT ANY TECHNICAL PUBLICATIONS, MEDIA REPORTS, OR PATENT APPLICATIONS IN WHICH BRIGHTFOCUS-SPONSORED RESEARCH IS DESCRIBED. IF SIGNIFICANT CONCERNS RELATED TO PROGRESS ON THE AWARDS ARE DISCOVERED, AND NOT RESOLVED AFTER INTERACTION WITH THE AWARD GRANTEE, THE BRIGHTFOCUS STAFF RECOMMENDS APPROPRIATE ACTIONS TO THE CHAIR OF THE SCIENTIFIC AFFAIRS COMMITTEE OF THE BOARD OF DIRECTORS. IN ACCORDANCE WITH THE GRANT AGREEMENT TERMS AND CONDITIONS, BRIGHTFOCUS MAY WITHHOLD FUNDING, OR DISCONTINUE AN AWARD, FOR ANY GRANTEE THAT FAILS TO ACHIEVE SUFFICIENT PROGRESS OR SUBMIT REQUIRED REPORTS.

AT THE CONCLUSION OF THE GRANT AWARD PERIOD, EACH GRANTEE MUST COMPLETE AND SUBMIT A FINAL REPORT THAT IS ALSO REVIEWED BY THE BRIGHTFOCUS SENIOR SCIENTIFIC STAFF. EVALUATION OF THE WORK OF EACH GRANTEE IS QUALITATIVELY

### Part V | Supplemental Information

Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information. See instructions.

AND QUANTITATIVELY ASSESSED THROUGH VARIOUS METRICS RELATED TO THE IMPACT OF THE GRANT ON ITS TARGETED DISEASE FIELD. SUCH IMPACT METRICS HAVE REVEALED THAT 95% OF BRIGHTFOCUS-SUPPORTED RESEARCH RESULTS IN RESEARCH PUBLICATIONS THAT ADVANCE THE FIELDS SERVED BY BRIGHTFOCUS. THIS IMPACT IS FURTHER SUPPORTED BY ANNUAL CATEGORY NORMALIZED CITATION IMPACT ANALYSIS THAT COMPARES BRIGHTFOCUS-SUPPORTED WORKS TO AN UNBIASED COMPARISON OF IMPACT PERFORMANCE VERSUS THE WORLD AVERAGE. BRIGHTFOCUS-SUPPORTED PUBLICATIONS WERE RECENTLY CITED AT 2 TIMES THE FREQUENCY OF THE WORLD AVERAGE. A FINAL EXAMPLE OF IMPACT ASSESSMENT REVEALED THAT THE SUCCESSES OF BRIGHTFOCUS GRANTEES CONTINUE LONG AFTER THE GRANT EXPIRES. ON AVERAGE, EACH GRANTEE RECEIVES ADDITIONAL GRANTS FOR FOLLOW-ON PROJECTS SPAWNED BY THE BRIGHTFOCUS GRANT, WITH VALUES UP TO 10 TIMES THE LEVEL OF THE INITIAL BRIGHTFOCUS INVESTMENT.

BRIGHTFOCUS SOLICITS FEEDBACK FROM ITS GRANTEES, AND PROVIDES AN ANONYMOUS FORUM FOR COLLECTING SUCH INFORMATION. THROUGH THE BRIGHTFOCUS FOUNDATION WEBSITE AND WITHIN THE SCIENTIFIC PROGRESS REPORTS, THERE ARE DESIGNATED SECTIONS WHERE AWARDEES ARE ASKED TO PROVIDE FEEDBACK TO THE FOUNDATION. THROUGH THIS MECHANISM, THEY ARE GIVEN THE ABILITY TO ANONYMOUSLY PROVIDE FEEDBACK OR COMMUNICATE THEIR CONCERNS TO PROGRAM STAFF OR THE BRIGHTFOCUS' COMPLIANCE OFFICE. ANY SUGGESTIONS, CONCERNS, COMPLAINTS, OR POSITIVE EXPERIENCES CAN BE OUTLINED AND BROUGHT TO THE ATTENTION OF BRIGHTFOCUS IN THIS MANNER, SO THAT BRIGHTFOCUS CAN ADDRESS ANY AREAS NEEDING IMPROVEMENT, REAFFIRM PRAISE-WORTHY POLICIES, OR OTHERWISE ASSESS NEEDS FOR PROGRAMMATIC CHANGE. THE SENIOR LEADERSHIP PRESENTS AND SUMMARIZES THE STATUS AND PROGRESS ON GRANTS TO THE BRIGHTFOCUS BOARD OF DIRECTORS AT EACH OF THEIR QUARTERLY BOARD MEETINGS.

Schedule F (Form 990) 2020

Part V Supplemental Information  Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information. See instructions.
PART I, LINE 3:
BRIGHTFOCUS REPORTED THE EXPENDITURES BASED ON THE ACCOUNTING METHOD USED
IN ITS AUDITED FINANCIAL STATEMENTS WHICH IS ON AN ACCRUAL BASIS.
PART II, LINE 1
BRIGHTFOCUS REPORTED THE EXPENDITURES BASED ON THE ACCOUNTING METHOD
USED IN ITS AUDITED FINANCIAL STATEMENTS WHICH IS ON AN ACCRUAL BASIS.

#### **SCHEDULE G**

Department of the Treasury Internal Revenue Service

(Form 990 or 990-EZ)

### **Supplemental Information Regarding Fundraising or Gaming Activities**

Complete if the organization answered "Yes" on Form 990, Part IV, line 17, 18, or 19, or if the organization entered more than \$15,000 on Form 990-EZ, line 6a.

► Attach to Form 990 or Form 990-EZ.

► Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Open to Public Inspection

Name of the organization

BRIGHTFOCUS FOUNDATION

**Employer identification number** 23-7337229

Part I Fundraising Activities. Complete if the organization answered "Yes" on Form 990, Part IV, line 17. Form 990-EZ filers are not required to complete this part. 1 Indicate whether the organization raised funds through any of the following activities. Check all that apply.

a X Mail solicitations e X Solicitation of non-government grants X Internet and email solicitations Solicitation of government grants

Phone solicitations Special fundraising events

X In-person solicitations

2 a Did the organization have a written or oral agreement with any individual (including officers, directors, trustees, or X Yes key employees listed in Form 990, Part VII) or entity in connection with professional fundraising services? No

b If "Yes," list the 10 highest paid individuals or entities (fundraisers) pursuant to agreements under which the fundraiser is to be compensated at least \$5,000 by the organization.

(i) Name and address of individual or entity (fundraiser)	(ii) Activity	(iii) fundr have c or con contrib	ustody itrol of	(iv) Gross receipts from activity	(v) Amount paid to (or retained by) fundraiser listed in col. (i)	(vi) Amount paid to (or retained by) organization
RKD GROUP - 35 PARKWOOD	FUNDRAISING AND	Yes	No			
DRIVE, STE. 160, HOPKINTON,	COMMUNICATIONS CONSULTANT		Х	28,394,494.	466,105.	27,928,389.
BEACONFIRE REDENGINE - 2300	FUNDRAISING AND					
CLARENDON BLVD., STE. 925,	COMMUNICATIONS CONSULTANT		х	1,768,472.	272,330.	1,496,142.
Total			<b>•</b>	30,162,966.	738,435.	29,424,531.
3 List all states in which the organization	on is registered or licensed to solicit o	ontrib	utions			

or licensing.

AK, AL, AR, AZ, CA, CO, CT, DC, FL, GA, HI, IL, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, NC, ND, NH
NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, TN, UT, VA, WA, WI, WV

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ. SEE PART IV FOR CONTINUATIONS

Schedule G (Form 990 or 990-EZ) 2020

Pa	art	<b>Fundraising Events.</b> Complete if the of fundraising event contributions and gro				
		or fundraising event contributions and gro	(a) Event #1	(b) Event #2	(c) Other events	(d) Total events (add col. (a) through
40			(event type)	(event type)	(total number)	col. <b>(c)</b> )
Revenue						
Rev	1	Gross receipts				
	2	Less: Contributions				
	3	Gross income (line 1 minus line 2)				
	4	Cash prizes				
S	5	Noncash prizes				
sued	6	Rent/facility costs				
Direct Expenses	7	Food and beverages				
ш	8	Entertainment				
	9	Other direct expenses				
	10	, ,				
D	<u>11</u> art					
ГС	21 L I	\$15,000 on Form 990-EZ, line 6a.	inswered "Yes" on Form	1990, Part IV, line 19, or r	eported more than	
_		\$15,000 OH FORM 990-L2, line 0a.		(b) Pull tabs/instant		(d) Total gaming (add
Revenue			(a) Bingo	bingo/progressive bingo	(c) Other gaming	col. (a) through col. (c))
<u> </u>	1	Gross revenue				
ses	2	Cash prizes				
Expenses	3	Noncash prizes				
Direct	4	Rent/facility costs				
	5	Other direct expenses				
	6		Yes % No	Yes % No	Yes % No	
	7	Direct expense summary. Add lines 2 through	5 in column (d)		<b>&gt;</b>	
	8	Net gaming income summary. Subtract line 7	from line 1, column (d)		<b>&gt;</b>	
	_					
	ls t	iter the state(s) in which the organization conduct the organization licensed to conduct gaming activo," explain:	tivities in each of these s	states?		
	_					
		ere any of the organization's gaming licenses rev 'Yes," explain:				Yes No
	_					
0320	82 1 <sup>-</sup>	1-25-20			Schedule G (Fo	rm 990 or 990-EZ) 2020

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Schedule G (Form 990 or 990-EZ)

# SCHEDULE (Form 990)

Department of the Treasury Internal Revenue Service Name of the organization

BRIGHTFOCUS FOUNDATION

Governments, and Individuals in the United States Grants and Other Assistance to Organizations,

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

OMB No. 1545-0047

► Go to www.irs.gov/Form990 for the latest information. ► Attach to Form 990.

Open to Public Inspection

Employer identification number 23-7337229

Part I General Information on Grants and Assistance	and Assistance						
1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection	to substantiate the	amount of the grants	or assistance, the g	grantees' eligibility	for the grants or assis	stance, and the selectio	n -
criteria used to award the grants or assistance?	istance?						X Yes No
2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.	ocedures for monit	oring the use of grant f	unds in the United	States.			
Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any	Domestic Organiz	zations and Domestic	Governments. Co	omplete if the orga	nization answered "Y	es" on Form 990, Part	IV, line 21, for any
recipient that received more than \$5,000. Part II can be duplicated if additional space is needed	\$5,000. Part II can	be duplicated if additic	onal space is neede	jq.			
<b>1 (a)</b> Name and address of organization or government	(p) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
							ALZHEIMER'S DISEASE
MASSACHUSETTS GENERAL HOSPITAL							RESEARCH BY MOUSTAFA
55 FRUIT STREET							ALGAMAL, PHD, ENTITLED:
BOSTON, MA 02114	04-2697983	501(C)(3)	200,000.	0.			(A2021001F)
							ALZHEIMER'S DISEASE
BROWN UNIVERSITY							RESEARCH BY BENEDETTA
350 EDDY STREET, BOX 1929							ASSETTA, PHD, ENTITLED:
PROVIDENCE, RI 02912	05-0258809	501(C)(3)	200,000.	0.			(A2021002F)
							ALZHEIMER'S DISEASE
YALE UNIVERSITY							RESEARCH BY YIFEI CAI,
300 GEORGE STREET, SUITE 8201							PHD, ENTITLED:
NEW HAVEN, CT 06511	06-0646973	501(C)(3)	200,000.	0.			(A2021003F)
							ALZHEIMER'S DISEASE
UNIVERSITY OF CALIFORNIA, BERKELEY							RESEARCH BY XI CHEN,
1608 FOURTH STREET, SUITE 220							PHD, ENTITLED:
BERKELEY, CA 94710	94-6002123	501(C)(3)	200,000.	0.			(A2021004F)
							ALZHEIMER'S DISEASE
UNIVERSITY OF PENNSYLVANIA							RESEARCH BY APRIL
3451 WALNUT STREET, 5TH FLOOR							DARLING, PHD, ENTITLED:
PHILADELPHIA, PA 19104	23-1352685	501(C)(3)	200,000.	0.			(A2021005F)
							ALZHEIMER'S DISEASE
MAYO CLINIC ARIZONA							RESEARCH BY CAMILA DE
13400 EAST SHEA BOULEVARD							AVILA DAL BO, PHD,
SCOTTSDALE, AZ 85259	86-0800150 501(C)(3	501(C)(3)	169,856.	0.			ENTITLED: (A2021006F)
2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table	and government org	ganizations listed in the	line 1 table				82.
3 Enter total number of other organizations listed in the line 1 table	f oull of the line	table 1					

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

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Schedule I (Form 990) 2020

BRIGHTFOCUS FOUNDATION Schedule I (Form 990) Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

Page 1

RESEARCH BY ANA-CAROLINE RESEARCH BY NIRAN HADAD, ESEARCH BY HARINI IYER, ODLESNY-DRABINIOK, PHD, RESEARCH BY ZHAOQI YAN, GOODMAN, PHD, ENTITLED: RAULIN, PHD, ENTITLED: MEEKER, PHD, ENTITLED: ENTITLED: (A2021014F) (h) Purpose of grant or assistance ENTITLED: (A2021017F) RESEARCH BY LINDSEY RESEARCH BY REBECCA RESEARCH BY XIAOWEI ENTITLED: ALZHEIMER'S DISEASE LZHEIMER'S DISEASE RESEARCH BY KARIN RESEARCH BY ANNA D.PHIL, PHD, ENTITLED: PHD, ENTITLED: PHD, ENTITLED: A2021008F) A2021010F) A2021011F) (A2021012F) A2021015F) (A2021018F) (A2021019F) VANG, PHD, MALLINGS, (g) Description of non-cash assistance (f) Method of valuation (book, FMV, appraisal, other) 0 。 。 Ö 0 Ö Ö 。 o (e) Amount of non-cash assistance (d) Amount of cash grant 200,000. 200,000. 200,000. 200,000. 200,000 200,000 200,000 199,998 200,000 (c) IRC section if applicable 01-0211513 501(C)(3) 94-1156365 501(C)(3) 43-0653611 501(C)(3) 13-6171197 501(C)(3) 74-1613878 501(C)(3) 59-3337028 501(C)(3) 94-6036493 501(C)(3) 59-6002052 501(C)(3) 23-7203666 501(C)(3) (b) EIN MEDICINE - ONE BROOKING DRIVE, BOX SINAI - ONE GUSTAVE L. LEVY PLACE, ICAHN SCHOOL OF MEDICINE AT MOUNT FRANCISCO - 490 ILLINOIS STREET WASHINGTON UNIVERSITY SCHOOL OF SAN BOX 1075 - NEW YORK, NY 10029 4TH FLOOR - SAN FRANCISCO, CA J. DAVID GLADSTONE INSTITUTES ONE BAYLOR PLAZA MS: BCM 310 455 BROADWAY, DISCOVERY HALL (a) Name and address of organization or government BAYLOR COLLEGE OF MEDICINE 1054 - ST. LOUIS, MO 63110 UNIVERSITY OF CALIFORNIA, MAYO CLINIC JACKSONVILLE SAN FRANCISCO, CA 94158 REDWOOD CITY, CA 94063 JACKSONVILLE, FL 32224 THE JACKSON LABORATORY UNIVERSITY OF FLORIDA GAINESVILLE, FL 32611 BAR HARBOR, ME 04609 4500 SAN PABLO ROAD STANFORD UNIVERSITY HOUSTON, TX 77030 1650 OWENS STREET 207 GRINTER HALL 600 MAIN STREET 94143

Schedule I (Form 990)

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

032241 11-05-20

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BRIGHTFOCUS FOUNDATION

Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.) Schedule I (Form 990)

SESTWICKI, PHD, ENTITLED: SUTOVSKY, PHD, ENTITLED: RESEARCH BY HONGJUN FU, IESQUITA, PHD, ENTITLED: ESEARCH BY BEIKA ZHU, RESEARCH BY LAURA COX, HENGST, PHD, ENTITLED: ENTITLED (h) Purpose of grant or assistance RESEARCH BY KATHRYN RESEARCH BY JIE GAO RESEARCH BY SANDRO ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE LZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE RESEARCH BY ULRICH ALZHEIMER'S DISEASE RESEARCH BY JASON ESEARCH BY OLEG HD, ENTITLED: PHD, ENTITLED: HD, ENTITLED: HD, ENTITLED: SOWLES, PHD, A2021022S) A2021025S) (A2021020F) (A2021024S) (A2021030S) A2021021S) A2021027S) (A2021028S) (A2021029S) (g) Description of non-cash assistance (f) Method of valuation (book, FMV, appraisal, other) 0 。 。 ö Ö 0 Ö 。 o (e) Amount of non-cash assistance (d) Amount of cash grant 300,000. 300,000. 300,000. 300,000 200,000 300,000 300,000 300,000 300,000 (c) IRC section if applicable 13-6171197 501(C)(3) 04-2312909 501(C)(3) 59-3337028 501(C)(3) 94-6036493 501(C)(3) 04-2312909 501(C)(3) 31-6025986 501(C)(3) 31-6025986 501(C)(3) 94-6036493 501(C)(3) 13-5598093 501(C)(3) (b) EIN SINAI - ONE GUSTAVE L. LEVY PLACE, BRIGHAM AND WOMEN'S HOSPITAL, INC. BRIGHAM AND WOMEN'S HOSPITAL, INC. ICAHN SCHOOL OF MEDICINE AT MOUNT FRANCISCO - 490 ILLINOIS STREET, FRANCISCO - 490 ILLINOIS STREET, 4TH FLOOR - SAN FRANCISCO, CA UNIVERSITY OF CALIFORNIA, SAN UNIVERSITY OF CALIFORNIA, SAN BOX 1075 - NEW YORK, NY 10029 4TH FLOOR - SAN FRANCISCO, CA (a) Name and address of organization or government MAYO CLINIC JACKSONVILLE JACKSONVILLE, FL 32224 630 WEST 168TH STREET OHIO STATE UNIVERSITY OHIO STATE UNIVERSITY 4500 SAN PABLO ROAD COLUMBIA UNIVERSITY COLUMBUS, OH 43210 COLUMBUS, OH 43210 NEW YORK, NY 10032 75 FRANCIS STREET 75 FRANCIS STREET BOSTON, MA 02115 BOSTON, MA 02115 1960 KENNY ROAD 1960 KENNY ROAD 94143 94143

Schedule I (Form 990)

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

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BRIGHTFOCUS FOUNDATION

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Schedule I (Form 990) BRIGHTFOCUS FOUNDATION

Part II | Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
WASHINGTON UNIVERSITY ONE BROOKINGS DRIVE ST. LOUIS, MO 63130	43-0653611	501(C)(3)	299,181.	.0			ALZHEIMER'S DISEASE RESEARCH BY LAURA IBANEZ, PHD, ENTITLED: (A2021033S)
NORTHEAST OHIO MEDICAL UNIVERSITY 4209 STATE ROUTE 44, PO BOX 95 ROOTSTOWN, OH 44272	34-1131512	501(C)(3)	300,000	0.			ALZHEIMER'S DISEASE RESEARCH BY ERIN REED-GEAGHAN, PHD, ENTITLED: (A2021036S)
MAYO CLINIC JACKSONVILLE 4500 SAN PABLO ROAD JACKSONVILLE, FL 32224	59-3337028	501(C)(3)	300,000	.0			ALZHEIMER'S DISEASE RESEARCH BY WILFRIED ROSSOLL, PHD, ENTITLED: (A2021038S)
BAYLOR COLLEGE OF MEDICINE ONE BAYLOR PLAZA MS: BCM 310 HOUSTON, TX 77030	74-1613878	501(C)(3)	.000,008	.0			ALZHEIMER'S DISEASE RESEARCH BY MELANIE SAMUEL, PHD, ENTITLED: (A2021039S)
MEDICAL UNIVERSITY OF SOUTH CAROLINA - 179 ASHLEY AVE - CHARLESTON, SC 29425	57-6000722 501(C)(3)	501(C)(3)	.000,008	.0			ALZHEIMER'S DISEASE RESEARCH BY TAKASHI SATO, PHD, ENTITLED: (A2021041S)
WASHINGTON UNIVERSITY ONE BROOKINGS DRIVE ST. LOUIS, MO 63130	43-0653611	501(C)(3)	298,845.	.0			ALZHEIMER'S DISEASE RESEARCH BY ARISTEIDIS SOTIRAS, PHD, ENTITLED: (A2021042S)
CASE WESTERN RESERVE UNIVERSITY - SCHOOL OF MEDICINE - 10900 EUCLID AVENUE - CLEVELAND, OH 44106	34-1018992	501(C)(3)	300,000	.0			ALZHEIMER'S DISEASE RESEARCH BY MASASHI TABUCHI, PHD, ENTITLED: (A2021043S)
MAYO CLINIC, JACKSONVILLE 4500 SAN PABLO ROAD JACKSONVILLE, FL 32224	59-3337028	501(C)(3)	300,000.	.0			ALZHEIMER'S DISEASE RESEARCH BY NA ZHAO, PHD, ENTILED: (A2021046S)
MAYO CLINIC, JACKSONVILLE 4500 SAN PABLO ROAD JACKSONVILLE, FL 32224	59-3337028	501(C)(3)	155,716.	.0			ALZHEIMER'S DISEASE RESEARCH ENTITLED: (CA2017563)
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SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

23-7337229

BRIGHTFOCUS FOUNDATION

Schedule I (Form 990)

Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

SOLDSTEIN, PHD, ENTITLED: RESEARCH BY QUINCY SAMUS, ESEARCH BY THOMAS KUKAR, RESEARCH BY WONHEE KIM, MAESAKO, PHD, ENTITLED: (h) Purpose of grant or assistance LZHEIMER'S DISEASE LZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE RESEARCH BY MASATO LZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE ALZHEIMER'S DISEASE RESEARCH ENTITLED: RESEARCH ENTITLED: RESEARCH ENTITLED: RESEARCH ENTITLED: RESEARCH BY JILL HD, ENTITLED: PHD, ENTITLED: HD, ENTITLED: (A2019056F) (CA2021014) CA2021010) (A2019021F) (CA2021001) (CA2021015) CA2021011) (A2019355S) CA2018607) (g) Description of non-cash assistance (f) Method of valuation (book, FMV, appraisal, other) 。 。 ö Ö 0 0 Ö 。 o (e) Amount of non-cash assistance 85,544. (d) Amount of cash grant 115,000, 60,934. 71,428. 235,163 264,816 250,000 250,000 156,624 (c) IRC section if applicable 59-3337028 501(C)(3) 86-2907045 501(C)(3) 04-1564655 501(C)(3) 58-0566256 501(C)(3) 04-2103634 501(C)(3) 04-1564655 501(C)(3) 52-0595110 501(C)(3) 47-4960128 501(C)(3) 47-4960128 501(C)(3) (b) EIN MOLECULAR NEURODEGENERATION - 1001 되 MASSACHUSETTS GENERAL HOSPITAL MASSACHUSETTS GENERAL HOSPITAL CONSORTIUM - 315 SIGMA DRIVE -CONSORTIUM - 315 SIGMA DRIVE -MEDICAL TECHNOLOGY ENTERPRISE MEDICAL TECHNOLOGY ENTERPRISE MAYPORT RD - ATLANTIC BEACH, (a) Name and address of organization or government MAYO CLINIC, JACKSONVILLE TUFTS UNIVERSITY - BOSTON INTERNATIONAL SOCIETY FOR JOHNS HOPKINS UNIVERSITY 1510 CLIFTON ROAD, NE JACKSONVILLE, FL 32224 SC 29486 SUMMERVILLE, SC 29486 CHARLESTOWN, MA 02114 4500 SAN PABLO ROAD BALTIMORE, MD 21211 ATLANTA, GA 30322 136 HARRISON AVE. BOSTON, MA 02111 55 FRUIT STREET EMORY UNIVERSITY BOSTON, MA 02114 400 N. BROADWAY 55 FRUIT STREET SUMMERVILLE, 32233

Schedule I (Form 990)

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

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Schedule I (Form 990) BRIGHTFOCUS FOUNDATION  Dark III Continuation of Grants and Other Assistance to Demostic Organi	US FOUNDATION	TION Transfers	rations and Domastic Governments	odos) stromonte	(Schadilla I (Form 000)   Dart    )	2	13-7337229 Page 1
(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
FOUNDATION FOR THE NATIONAL INSTITUTES OF HEALTH - 11400							ALZHEIMER'S DISEASE
ROCKVILLE PIKE, SUITE 600 - NORTH BETHESDA, MD 20852	52-1986675	501(C)(3)	100,000.	0.			RESEARCH ENTITLED: (CA2021012)
BOSTON UNIVERSITY SCHOOL OF							ALZHEIMER'S DISEASE RESEARCH BY BENJAMIN
MEDICINE - 72 EAST CONCORD STREET - BOSTON, MA 02215	04-2103547	501(C)(3)	379,188.	.0			WOLOZIN, MD, PHD ENTITLED: (CA2020002)
							ALZHEIMER'S DISEASE
UNIVERSITY OF DENVER 2155 E. WESLEY AVENUE							RESEARCH BY ANN CHARLOTTE GRANHOLM-BENTLEY, PHD,
DENVER, CO 80208	84-0404231	501(C)(3)	81,210.	0.			ENTITLED: (CA2018010)
ACCESS CIRCLES, INC.							
19 EAST ELM STREET GREENWICH, CT 06830	82-2117628	501(C)(3)	100,000.	0			WOMEN'S HEALTH ACCESS MATTERS REPORT
THE MILNEN INSTITUTE 1250 4TH STREET							FROJECT SUFFORT FOR STUDI
SANTA MONICA, CA 90401	95-4240775 501(C)(3)	501(C)(3)	100,000.	0.			RESEARCH
							NATIONAL GLAUCOMA
UNIVERSITY SCHOOL C							RESEARCH BY JI WON BANG,
MEDICINE - ONE PARK AVENUE, 6TH	13_5560308	707(0)	7 OOO	C			PHD, ENTITLED:
	0		,	•			NATIONAL GLAUCOMA
BOSTON CHILDREN'S HOSPITAL							RESEARCH BY NICHOLAS
300 LONGWOOD AVENUE							HANOVICE, PHD, ENTITLED:
BOSTON, MA 02115	04-2774441 501(C)(3)	501(C)(3)	149,989.	0.			(G2021002F)
UNIVERSITY OF PITTSBURGH							NATIONAL GLAUCOMA
3420 FORBES AVENUE							RESEARCH BY YI HUA, PHD,
PITTSBURGH, PA 15260	25-0965591	501(C)(3)	149,586.	0.			ENTITLED: (G2021003F)
							NATIONAL GLAUCOMA
GEORGIA TECH RESEARCH CORPORATION							RESEARCH BY BABAK SAFA,
926 DALNEY STREET NW							PHD, ENTITLED:
ATLANTA, GA 30332	58-0603146 501(C)(3)	501(C)(3)	150,000.	0.			(G2021005F)
							Schedule I (Form 990)

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BRIGHTFOCUS FOUNDATION

Schedule I (Form 990)

Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

Schedule I (Form 990) RESEARCH BY JOHN HETLING, AWADZKI, PHD, ENTITLED: NICKELLS, PHD, ENTITLED: RESEARCH BY THAO NGUYEN, CARTONI, PHD, ENTITLED: /ELDMAN, PHD, ENTITLED: RESEARCH BY IAN PITHA, (h) Purpose of grant or assistance RESEARCH BY ROBERT W. INTITLED: (G2021007S) SALASUBRAMANIAN, PHD RESEARCH BY KIMBERLY WONG, PHD, ENTITLED: RESEARCH BY REVATHI RESEARCH BY MATTHEW ESEARCH BY ROMAIN RESEARCH BY ROBERT NATIONAL GLAUCOMA PHD, ENTITLED: PHD, ENTITLED: HD, ENTITLED: (G2021017S) G2021006F) (G2021008S) (G2021012S) G2021013S) G2021015S) (G2018166) (G2019356) (g) Description of non-cash assistance (f) Method of valuation (book, FMV, appraisal, other) 0 0 。 。 ö Ö 0 。 o (e) Amount of non-cash assistance (d) Amount of cash grant 200,000. 200,000. 200,000. 200,000. 50,000 200,000 200,000 50,000 149,989 (c) IRC section if applicable 52-0595110 501(C)(3) 52-0595110 501(C)(3) 04-2774441 501(C)(3) 13-5598093 501(C)(3) 56-0532129 501(C)(3) 39-0806261 501(C)(3) 94-6036494 501(C)(3) 37-6000511 501(C)(3) 39-6006492 501(C)(3) (b) EIN 1850 RESEARCH PARK DRIVE, SUITE 300 DUKE UNIVERSITY SCHOOL OF MEDICINE JOHNS HOPKINS UNIVERSITY SCHOOL OF UNIVERSITY OF ILLINOIS AT CHICAGO THE MEDICAL COLLEGE OF WISCONSIN UNIVERSITY OF CALIFORNIA, DAVIS SUITE 117 - BALTIMORE, MD 21205 UNIVERSITY OF WISCONSIN-MADISON MEDICINE - 733 NORTH BROADWAY, (a) Name and address of organization or government BOSTON CHILDREN'S HOSPITAL 21 N. PARK ST, SUITE 6401 SUITE 820, ERWIN SQUARE, JOHNS HOPKINS UNIVERSITY 8701 WATERTOWN PLANK RD. 845 WEST TAYLOR STREET 630 WEST 168TH STREET MILWAUKEE, WI 53226 300 LONGWOOD AVENUE COLUMBIA UNIVERSITY BALTIMORE, MD 21218 NEW YORK, NY 10032 1101 E 33RD STREET MADISON, WI 53715 IL 60607 BOSTON, MA 02115 DURHAM, NC 27705 CA 95618 CHICAGO, DAVIS,

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

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BRIGHTFOCUS FOUNDATION Schedule I (Form 990) Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

23-7337229

RESEARCH BY SAYAN GHOSH, RESEARCH BY YA-JU CHANG, RESEARCH BY KE NING, MD, ORTOLAN, PHD, ENTITLED: RESEARCH BY SIMON JOHN, SCUDERO PANIAGUA, PHD, STAMER, PHD, ENTITLED: STHIER, PHD, ENTITLED: RESEARCH BY W. DANIEL ENTITLED: (M2021004F) (h) Purpose of grant or assistance ENTITLED: (M2021008F) MACULAR DEGENERATION MACULAR DEGENERATION RESEARCH BY ROHINI M MACULAR DEGENERATION MACULAR DEGENERATION MACULAR DEGENERATION WAIR, PHD, ENTITLED: MACULAR DEGENERATION RESEARCH BY ANTONIO RESEARCH BY C. ROSS RESEARCH BY DAVIDE NATIONAL GLAUCOMA NATIONAL GLAUCOMA NATIONAL GLAUCOMA PHD, ENTITLED: PHD, ENTITLED: HD, ENTITLED: (M2021009F) CG2020002) (CG2020004) (M2021002F) (M2021007F) CG2020001) (M2021005F) (g) Description of non-cash assistance (f) Method of valuation (book, FMV, appraisal, other) 0 。 。 Ö 0 Ö Ö 。 o (e) Amount of non-cash assistance (d) Amount of cash grant 666,667. 200,000. 200,000. 231,985, 200,000 342,244 200,000 200,000 200,000 (c) IRC section if applicable 58-6002023 501(C)(3) 13-5598093 501(C)(3) 95-6006143 501(C)(3) 56-0532129 501(C)(3) 13-5598093 501(C)(3) 25-0965591 501(C)(3) 94-1156365 501(C)(3) 23-1352685 501(C)(3) 52-0858115 501(C)(3) (b) EIN 2200 WEST MAIN STREET, SUITE 820 GEORGIA INSTITUTE OF TECHNOLOGY UNIVERSITY OF CALIFORNIA, LOS (a) Name and address of organization or government NATIONAL EYE INSTITUTE, NIH BOULEVARD, SUITE 700 - LOS UNIVERSITY OF PENNSYLVANIA 31 CENTER DRIVE, MSC2510 ANGELES - 10889 WILSHIRE UNIVERSITY OF PITTSBURGH PHILADELPHIA, PA 19104 CA 94063 FERST DRIVE, ROOM 230 630 WEST 168TH STREET PITTSBURGH, PA 15260 COLUMBIA UNIVERSITY STANFORD UNIVERSITY COLUMBIA UNIVERSITY NEW YORK, NY 10027 NEW YORK, NY 10032 3420 FORBES AVENUE BETHESDA, MD 20892 535 W 116TH STREET 3451 WALNUT STREET ANGELES, CA 90095 ATLANTA, GA 30332 DURHAM, NC 27705 DUKE UNIVERSITY REDWOOD CITY, 485 BROADWAY

Schedule I (Form 990)

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SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

Schedule I (Form 990) BRIGHTFOCUS FOUNDATION

Part II | Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
THE SCHEPENS EYE RESEARCH INSTITUTE - 20 STANIFORD STREET - BOSTON, MA 02114	04-2129889	501(C)(3)	.000,002	.0			MACULAR DEGENERATION RESEARCH BY DAISY SHU, PHD, ENTITLED: (M2021010F)
STANFORD UNIVERSITY 455 BROADWAY, DISCOVERY HALL REDWOOD CITY, CA 94063	94-1156365	501(C)(3)	200,000	0			MACULAR DEGENERATION RESEARCH BY YOUNG JOO SUN, PHD, ENTITLED: (M2021011F)
UNIVERSITY OF CALIFORNIA, IRVINE 160 ALDRICH HALL IRVINE, CA 92697	95-2226406	501(C)(3)	450,000.	.0			MACULAR DEGENERATION RESEARCH BY ANDREW BROWNE, MD, PHD, ENTITLED: (M2021013N)
MASSACHUSETTS EYE AND EAR INFIRMARY - 243 CHARLES STREET - BOSTON, MA 02114	04-2103591	501(C)(3)	449,951.	°			MACULAR DEGENERATION RESEARCH BY ROSARIO FERNANDEZ GODINO, PHD, ENTITLED: (M2021014N)
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO - 490 ILLINOIS STREET, 4TH FLOOR - SAN FRANCISCO, CA 94143	94-6036493	501(C)(3)	450,000.	.0			MACULAR DEGENERATION RESEARCH BY TYSON KIM, PHD, ENTITLED: (M2021015N)
NORTHWESTERN UNIVERSITY 750 NORTH LAKE SHORE DRIVE CHICAGO, IL 60611	36-2167817	501(C)(3)	450,000	0			MACULAR DEGENERATION RESEARCH BY JEREMY LAVINE, MD, PHD, ENTITLED: (M2021016N)
BAYLOR COLLEGE OF MEDICINE ONE BAYLOR PLAZA MS: BCM 310 HOUSTON, TX 77030	74-1613878	501(C)(3)	448,734.	0			MACULAR DEGENERATION RESEARCH BY RINKI RATNAPRIYA, PHD, ENTITLED: (M2021017N)
NORTHWESTERN UNIVERSITY 750 NORTH LAKE SHORE DRIVE CHICAGO, IL 60611	36-2167817	501(C)(3)	450,000.	0.			MACULAR DEGENERATION RESEARCH BY BENJAMIN THOMSON, PHD, ENTITLED: (M2021018N)
INDIANA UNIVERSITY 509 E 3RD STREET BLOOMINGTON, IN 47401	35-6001673	501(C)(3)	450,000.	0			MACULAR DEGENERATION RESEARCH BY MALLIKA VALAPALA, PHD, ENTITLED: (M2021019N)
							Schedule I (Form 990)

SEE SCHEDULE O FOR CONTINUATION OF GRANT PURPOSE, ITEM (H)

23-7337229

BRIGHTFOCUS FOUNDATION

Schedule I (Form 990)

Part II Continuation of Grants and Other Assistance to Domestic Organizations and Domestic Governments (Schedule I (Form 990), Part II.)

Schedule I (Form 990) LAKKARAJU, PHD, ENTITLED: SKOWRONSKA-KRAWCZYK, PHD, 2021 TRAVEL GRANTS FOR CONFERENCE ATTENDANCE. (h) Purpose of grant or assistance CONFERENCE ATTENDEES MACULAR DEGENERATION MACULAR DEGENERATION ENTITLED: (M2020271) RESEARCH BY APARNA. RESEARCH BY DOROTA TRAVEL GRANTS FOR (M2021020I) (g) Description of non-cash assistance (f) Method of valuation (book, FMV, appraisal, other) 0 0 。 。 (e) Amount of non-cash assistance (d) Amount of cash grant 20,000. 10,000. 10,000 599,399 (c) IRC section if applicable 94-6036493 501(C)(3) 95-2226406 501(C)(3) 52-2322462 501(C)(3) 38-3169020 501(C)(3) (p) EIN PHARMACOLOGY AND THERAPEUTICS - 38 IRVINE CLOVER RIDGE ROAD - MEREDITH, NH ARVO FOUNDATION FOR EYE RESEARCH FRANCISCO - 490 ILLINOIS STREET, 1801 ROCKVILLE PIKE, SUITE 400 4TH FLOOR - SAN FRANCISCO, CA UNIVERSITY OF CALIFORNIA, SAN (a) Name and address of organization or government UNIVERSITY OF CALIFORNIA, 120 THEORY STREET #200 ASSOCIATION FOR OCULAR ROCKVILLE, MD 20852 IRVINE, CA 92617 94143 03253

Schedule I (Form 990) 2020 BRIGHTFOCUS FOUNDATION

Part III Grants and Other Assistance to Domestic Individuals. Complete if the organization answered "Yes" on Form 990, Part IV, line 22.

Part III can be duplicated if additional space is needed.

BRIGHTFOCUS FOUNDATION

(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of non- cash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of noncash assistance
Part IV Supplemental Information. Provide the information required in Part I, line 2; Part III, column (b); and any other additional information.	quired in Part I, lin	e 2; Part III, column	(b); and any other ad	ditional information.	
PART I, LINE 2:					
BRIGHTFOCUS INTERACTS WITH ALL GRANTEE	ຜ	AT LEAST QUAR	QUARTERLY BY E	E-MAIL OR AT	
SCIENTIFIC MEETINGS. IN ADDITION TO	THESE	INTERACTIONS,	EACH	GRANT	
RECIPIENT IS REQUIRED TO SUBMIT SEPARA	PARATE DE	TE DETAILED ANN	ANNUAL SCIENTIFIC	IFIC	
PROGRESS AND FINANCIAL REPORTS TO B	BRIGHTFOCUS.	THESE	ARE RECEIVED	ED BY THE	
BRIGHTFOCUS SCIENTIFIC AFFAIRS DEPA	DEPARTMENT,	AND REVIEWED	ΒY	SCIENTIFIC STAFF	
WITH BROAD EXPERTISE, INCLUDING IMA	IMAGING, MC	MOLECULAR BI	BIOLOGY AND	SIGNALING	
PATHWAYS, CELL BIOLOGY, ANGIOGENESIS,		BIOCHEMISTRY, N	NEUROSCIENCE,	E, AND	
GENETICS. SENIOR STAFF REVIEWS EACH	EACH PROGRESS	S REPORT AND	ND EVALUATES	ES THE	
032102 11-02-20					Schedule I (Form 990) 2020

PROJECT FOR SUFFICIENT PROGRESS TOWARDS THE SPECIFIC AIMS PROPOSED IN THE

ORIGINAL APPLICATION OR ANY BUDGETARY CONCERNS. THIS EFFORT IS SUPPORTED BY

ADDITIONAL SCIENTIFIC COUNSEL FROM MEMBERS OF THE BRIGHTFOCUS SCIENTIFIC

REVIEW COMMITTEES, WHEN REQUIRED. IN ADDITION TO STATEMENTS OF EXPERIMENTAL

PROGRESS, ALL GRANTEES ARE ASKED TO REPORT ANY TECHNICAL PUBLICATIONS,

MEDIA REPORTS, OR PATENT APPLICATIONS IN WHICH BRIGHTFOCUS-SPONSORED

RESEARCH IS DESCRIBED. IF SIGNIFICANT CONCERNS RELATED TO PROGRESS ON THE

AWARDS ARE DISCOVERED, AND NOT RESOLVED AFTER INTERACTION WITH THE AWARD

GRANTEE, THE BRIGHTFOCUS STAFF RECOMMENDS APPROPRIATE ACTIONS TO THE CHAIR

OF THE SCIENTIFIC AFFAIRS COMMITTEE OF THE BOARD OF DIRECTORS. IN

ACCORDANCE WITH THE GRANT AGREEMENT TERMS AND CONDITIONS, BRIGHTFOCUS MAY

WITHHOLD FUNDING, OR DISCONTINUE AN AWARD, FOR ANY GRANTEE THAT FAILS TO

ACHIEVE SUFFICIENT PROGRESS OR SUBMIT REQUIRED REPORTS.

AT THE CONCLUSION OF THE GRANT AWARD PERIOD, EACH GRANTEE MUST COMPLETE AND SUBMIT A FINAL REPORT THAT IS ALSO REVIEWED BY THE BRIGHTFOCUS SENIOR

SCIENTIFIC STAFF. EVALUATION OF THE WORK OF EACH GRANTEE IS QUALITATIVELY AND QUANTITATIVELY ASSESSED THROUGH VARIOUS METRICS RELATED TO THE IMPACT

OF THE GRANT ON ITS TARGETED DISEASE FIELD. SUCH IMPACT METRICS HAVE

REVEALED THAT 95% OF BRIGHTFOCUS-SUPPORTED RESEARCH RESULTS IN RESEARCH

PUBLICATIONS THAT ADVANCE THE FIELDS SERVED BY BRIGHTFOCUS. THIS IMPACT IS

FURTHER SUPPORTED BY ANNUAL CATEGORY NORMALIZED CITATION IMPACT ANALYSIS

THAT COMPARES BRIGHTFOCUS-SUPPORTED WORKS TO AN UNBIASED COMPARISON OF

IMPACT PERFORMANCE VERSUS THE WORLD AVERAGE. BRIGHTFOCUS-SUPPORTED

PUBLICATIONS WERE RECENTLY CITED AT 2 TIMES THE FREQUENCY OF THE WORLD

AVERAGE. A FINAL EXAMPLE OF IMPACT ASSESSMENT REVEALED THAT THE SUCCESSES

OF BRIGHTFOCUS GRANTEES CONTINUE LONG AFTER THE GRANT EXPIRES. ON AVERAGE,

EACH GRANTEE RECEIVES ADDITIONAL GRANTS FOR FOLLOW-ON PROJECTS SPAWNED BY

Schedule I (Form 990)

THE BRIGHTFOCUS GRANT, WITH VALUES UP TO 10 TIMES THE LEVEL OF THE INITIAL
BRIGHTFOCUS INVESTMENT.
BRIGHTFOCUS SOLICITS FEEDBACK FROM ITS GRANTEES, AND PROVIDES AN ANONYMOUS
FORUM FOR COLLECTING SUCH INFORMATION. THROUGH THE BRIGHTFOCUS FOUNDATION
WEBSITE AND WITHIN THE SCIENTIFIC PROGRESS REPORTS, THERE ARE DESIGNATED
SECTIONS WHERE AWARDEES ARE ASKED TO PROVIDE FEEDBACK TO THE FOUNDATION.
THROUGH THIS MECHANISM, THEY ARE GIVEN THE ABILITY TO ANONYMOUSLY PROVIDE
FEEDBACK OR COMMUNICATE THEIR CONCERNS TO PROGRAM STAFF OR THE BRIGHTFOCUS'
COMPLIANCE OFFICE. ANY SUGGESTIONS, CONCERNS, COMPLAINTS, OR POSITIVE
EXPERIENCES CAN BE OUTLINED AND BROUGHT TO THE ATTENTION OF BRIGHTFOCUS IN
THIS MANNER, SO THAT BRIGHTFOCUS CAN ADDRESS ANY AREAS NEEDING IMPROVEMENT,
REAFFIRM PRAISE-WORTHY POLICIES, OR OTHERWISE ASSESS NEEDS FOR PROGRAMMATIC
CHANGE. THE SENIOR LEADERSHIP PRESENTS AND SUMMARIZES THE STATUS AND
PROGRESS ON GRANTS TO THE BRIGHTFOCUS BOARD OF DIRECTORS AT EACH OF THEIR
QUARTERLY BOARD MEETINGS.

### SCHEDULE J (Form 990)

**Compensation Information** 

For certain Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

► Complete if the organization answered "Yes" on Form 990, Part IV, line 23.

► Attach to Form 990.

Open to Public Inspection

OMB No. 1545-0047

Internal Revenue Service

Name of the organization

Department of the Treasury

► Go to www.irs.gov/Form990 for instructions and the latest information.

BRIGHTFOCUS FOUNDATION Employer identification number 23-7337229

**Questions Regarding Compensation** Yes No 1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990, Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items. First-class or charter travel Housing allowance or residence for personal use Travel for companions Payments for business use of personal residence Tax indemnification and gross-up payments Health or social club dues or initiation fees Discretionary spending account Personal services (such as maid, chauffeur, chef) b If any of the boxes on line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain 1b Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, and officers, including the CEO/Executive Director, regarding the items checked on line 1a? 2 Indicate which, if any, of the following the organization used to establish the compensation of the organization's CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to establish compensation of the CEO/Executive Director, but explain in Part III. | X | Compensation committee Written employment contract X Independent compensation consultant X Compensation survey or study X Form 990 of other organizations X Approval by the board or compensation committee During the year, did any person listed on Form 990, Part VII, Section A, line 1a, with respect to the filing organization or a related organization: a Receive a severance payment or change-of-control payment? 4a X **b** Participate in or receive payment from a supplemental nonqualified retirement plan? 4b X **c** Participate in or receive payment from an equity-based compensation arrangement? 4c If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III. Only section 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9. For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the revenues of: X a The organization? 5a X **b** Any related organization? If "Yes" on line 5a or 5b, describe in Part III. For persons listed on Form 990. Part VII. Section A. line 1a, did the organization pay or accrue any compensation contingent on the net earnings of: Х a The organization? 6a Х **b** Any related organization? 6b If "Yes" on line 6a or 6b, describe in Part III. For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any nonfixed payments not described on lines 5 and 6? If "Yes," describe in Part III Х 7 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the Х initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule J (Form 990) 2020

Regulations section 53.4958-6(c)?

Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees. Use duplicate copies if additional space is needed.

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that aren't listed on Form 990, Part VII.

Note: The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

		(B) Breakdown of \	(B) Breakdown of W-2 and/or 1099-MISC compensation	3C compensation	(C) Retirement and	able	(E) Total of columns	E
(A) Name and Title		(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation	onler deterred compensation	Sellells	(a)-(i)(a)	in column (b) reported as deferred on prior Form 990
(1) STACY PAGOS HALLER	Ξ	368,624.	0.	2,949.	25,650.	28,979.	426,202.	0
PRESIDENT/CEO	<b>E</b>	• 0	0	0	• 0	0	• 0	• 0
(2) NANCY LYNN	(i)	.838,838	0	1,032.	22,445	29,381.	.969,162	• 0
SR, VP STRATEGIC PARTNERSHIPS	(ii)	• 0	0	• 0	• 0	0.	• 0	• 0
(3) R. BRIAN ELDERTON	(i)	231,705.	0.	1,584.	21,432.	23,006.	277,727.	
SR. VP, DEVELOPMENT	Œ	• 0	• 0	• 0		0	• 0	• 0
(4) DAVID F. MARKS, CPA, CMA	Θ	158,888.	0.	1,584.	15,419.	38,251.	214,142.	0
VP, FINANCE & ADMINISTRATION	Ξ	0	0	0	• 0	0	• 0	
(5) DIANE BOVENKAMP, PHD	Ξ	174,054.	0	488.	15,665.	4,527.	194,734.	
VP, SCIENTIFIC AFFAIRS	Ξ	0	0	0	0	0	0	0
(6) MICHAEL BUCKLEY	(I)	157,602.	0.	552.	14,184.	4,126.	176,464.	0
VP, PUBLIC AFFAIRS	€	• 0	0	0	• 0	0	• 0	0
	(i)							
	(ii)							
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23-7337229		Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.
BRIGHTFOCUS FOUNDATION		orF
Schedule J (Form 990) 2020	Part III Supplemental Information	Provide the information, explanation, or descriptions required f

Schedule J (Form 990) 2020

### **SCHEDULE M** (Form 990)

**Noncash Contributions** 

OMB No. 1545-0047

Open to Public

Department of the Treasury Internal Revenue Service

Name of the organization

▶ Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.

➤ Attach to Form 990.

BRIGHTFOCUS FOUNDATION

► Go to www.irs.gov/Form990 for instructions and the latest information.

Inspection Employer identification number 23-7337229

ı uı	rt I Types of Property						
		(a) Check if applicable	(b) Number of contributions or	(c) Noncash contribution amounts reported on	(d)  Method of determine  noncash contribution a	•	:s
			items contributed	Form 990, Part VIII, line 1g			
1	Art - Works of art						
2	Art - Historical treasures						
3	Art - Fractional interests						
4	Books and publications						
5	Clothing and household goods						
6	Cars and other vehicles						
7	Boats and planes						
8	Intellectual property						
9	Securities - Publicly traded		22	411,261.	FMV		
10	Securities - Closely held stock						
11	Securities - Partnership, LLC, or trust interests						
12	Securities - Miscellaneous						
13	Qualified conservation contribution - Historic structures						
14	Qualified conservation contribution - Other						
15	Real estate - Residential						
16	Real estate - Commercial						
17	Real estate - Other						
18	Collectibles						
19	Food inventory						
20	Drugs and medical supplies						
21	Taxidermy						
22	Historical artifacts						
23	Scientific specimens						
24	Archeological artifacts						
25	Other (						
26	Other   (						
27	Other (	· )					
28	Other (	· )					
29	Number of Forms 8283 received by the or for which the organization completed Form	-	-				
						Yes	No
30a	During the year, did the organization recei	ve by contributio	on any property rep	orted in Part I, lines 1 throug	h 28, that it		
	must hold for at least three years from the	date of the initia	al contribution, and	which isn't required to be us	sed for		
	exempt purposes for the entire holding pe	riod?			30a		Х
b	If "Yes," describe the arrangement in Part	II.					
31	Does the organization have a gift acceptar	nce policy that re	equires the review o	of any nonstandard contribut	ions? 31	Х	
32a	Does the organization hire or use third par	ties or related or	ganizations to solid	cit, process, or sell noncash			
	contributions?				32a		X
b	If "Yes," describe in Part II.						
33	If the organization didn't report an amount	in column (c) fo	r a type of property	for which column (a) is chec	ked,		
	describe in Part II.						

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990. Schedule M (Form 990) 2020

Supplemental Information. Provide the information required by Part I, lines 30b, 32b, and 33, and whether the organization is reporting in Part I, column (b), the number of contributions, the number of items received, or a combination of both. Also complete this part for any additional information.										
SCHEDU	LE M,	PART I,	COL	UMN (B)	:					
BRIGHT	FOCUS	REPORTS	THE	NUMBER	OF	CONTRIBUTIO	NS IN	PART	I, COLUMN	1 (B).

Schedule M (Form 990) 2020

### SCHEDULE O

Internal Revenue Service

(Form 990 or 990-EZ) Department of the Treasury

## Supplemental Information to Form 990 or 990-EZ

Complete to provide information for responses to specific questions on Form 990 or 990-EZ or to provide any additional information. ► Attach to Form 990 or 990-EZ.

▶ Go to www.irs.gov/Form990 for the latest information.

Open to Public Inspection

OMB No. 1545-0047

Name of the organization

BRIGHTFOCUS FOUNDATION

Employer identification number 23-7337229

FORM 990, PART III, LINE 1, DESCRIPTION OF ORGANIZATION MISSION: BRIGHTFOCUS FUNDS EXCEPTIONAL SCIENTIFIC RESEARCH WORLDWIDE TO DEFEAT ALZHEIMER'S DISEASE, MACULAR DEGENERATION, AND GLAUCOMA AND PROVIDES EXPERT INFORMATION ON THESE HEARTBREAKING DISEASES. OUR VISION IS: A WORLD FREE FROM DISEASES OF MIND AND SIGHT. COLLECTIVELY, 1 IN 16 PEOPLE OVER THE AGE OF 40 IN THE U.S. HAS ONE OF THESE DISEASES.

BRIGHTFOCUS HAS A PROVEN TRACK RECORD OF SUPPORTING THE MOST EARLY-STAGE RESEARCH SEEKING BETTER UNDERSTANDING OR, ULTIMATELY, A CURE FOR THESE DISEASES. SINCE 1973, BRIGHTFOCUS HAS AWARDED NEARLY \$250 MILLION IN RESEARCH GRANTS TO THOUSANDS OF SCIENTISTS AROUND THE WORLD. OUR RESEARCH FUNDING HAS LED TO MAJOR CONTRIBUTIONS TO THE UNDERSTANDING OF THESE DISEASES AND SUPPORT FOR SCIENTISTS WHO HAVE RECEIVED PRESTIGIOUS AWARDS, INCLUDING TWO NOBEL PRIZES. AN INDICATOR OF OUR ABILITY TO PUSH NEW BOUNDARIES OF KNOWLEDGE IS THAT BRIGHTFOCUS-SUPPORTED RESEARCH WAS RECENTLY FOUND TO HAVE HAD TWICE THE IMPACT ON DRIVING FUTURE SCIENCE THAN WORK SUPPORTED BY MANY OTHER ORGANIZATIONS.

THE WORLD-CLASS RESEARCH IDENTIFIED AND SUPPORTED BY BRIGHTFOCUS IS ON THE CUTTING-EDGE OF THE FIGHT TO SAVE MIND AND SIGHT. OUR FUNDING ACTS AS A CATALYST IN EARLY-STAGE RESEARCH. THE BRIGHTFOCUS RESEARCH PROGRAMS ARE DESIGNED TO PROVIDE INITIAL FUNDING FOR HIGHLY INNOVATIVE EXPERIMENTAL IDEAS. DUE TO THE STRUCTURED GRANT REVIEW AND APPROVAL THE RESEARCH IMPACT OF BRIGHTFOCUS IS VERY HIGH. MOST PROCESS,

RECIPIENTS OF BRIGHTFOCUS FUNDING GO ON TO RECEIVE FUTURE GRANTS FROM LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

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Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 OTHER SOURCES THAT ARE UP TO 10 TIMES LARGER THAN THE ORIGINAL BRIGHTFOCUS AWARD. THIS HIGH RETURN ON BRIGHTFOCUS INVESTMENT SPEAKS TO OUR ABILITY TO IDENTIFY PROMISING RESEARCH IN ITS EARLIEST STAGES AND SPAWN FUTURE SCIENTIFIC DISCOVERIES. IT IS OUR FIRM BELIEF THAT HAVING THE COURAGE TO INVEST IN INNOVATIVE IDEAS WILL LEAD TO REVOLUTIONARY APPROACHES AND LIFE-SAVING BREAKTHROUGHS. ALONG WITH FUNDING CUTTING-EDGE RESEARCH TO FIND CURES TO SOME OF THE WORLD'S COSTLIEST DISEASES, BRIGHTFOCUS ALSO PROVIDES FREE EDUCATIONAL MATERIALS AND SUPPORT TO HUNDREDS OF THOUSANDS OF THOSE IMPACTED BY THESE DISEASES NATIONWIDE. WE ROOT THESE EDUCATIONAL MATERIALS IN THE LATEST RESEARCH FINDINGS. BRIGHTFOCUS INCREASES PUBLIC AWARENESS OF ALZHEIMER'S, MACULAR DEGENERATION, AND GLAUCOMA, AND COMMUNICATES WITH THOUGHT LEADERS AND ELECTED OFFICIALS ABOUT THE IMPORTANCE OF SCIENTIFIC RESEARCH IN THESE AREAS. BRIGHTFOCUS' AWARD-WINNING PUBLIC SERVICE ANNOUNCEMENTS (PSA) HAVE APPEARED ON TELEVISION, RADIO, AND IN PRINT THROUGHOUT THE NATION. THE IMPACT OF ALZHEIMER'S. MAKE A PLAN TODAY: GET YOUR EYES CHECKED AND NOW IS THE MOMENT TO STOP ALZHEIMER'S DISEASE POWERFULLY SEEK TO RAISE AWARENESS AND EARLY DETECTION, AND SIMILAR MESSAGES HAVE BEEN DELIVERED THROUGH DONATED PRINT PSA SPACE IN AIRPORTS AND TRAIN STATIONS, AS WELL AS AT PHARMACIES, SUPERMARKETS AND DIGITALLY. IN FISCAL YEAR 2021, THESE PSA MESSAGES GENERATED \$10,280,294 IN DONATED MEDIA SERVICES AND GARNERED OVER 592 MILLION IMPRESSIONS.

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 SINCE 2014, THE BRIGHTFOCUS CHATS HAVE BROUGHT TOGETHER PATIENTS AND CAREGIVERS FOR FREE, INTERACTIVE MONTHLY TELEPHONE FORUMS TO LEARN FROM, AND ASK OUESTIONS OF, LEADING RESEARCHERS AND SPECIALISTS ON VISION DISEASES. THE CHATS ARE ARCHIVED ON OUR WEB SITE, WITH AUDIO AND PRINT TRANSCRIPTS AVAILABLE IN A NUMBER OF ACCESSIBLE FORMATS. WE CONTINUE TO INCREASE OUR PRINT PUBLICATIONS, MANY IN SPANISH, THAT PROVIDE HELPFUL INFORMATION TO PATIENTS AND CAREGIVERS, AND REGULARLY UNVEIL NEW VIDEO AND AUDIO RESOURCES IN CONJUNCTION WITH ALLIES IN THE MEDICAL AND SCIENTIFIC COMMUNITIES. PARTNERING WITH SEVERAL HIGH-PROFILE PUBLIC AND PRIVATE ORGANIZATIONS, BRIGHTFOCUS IS HELPING BETTER EDUCATE THE PUBLIC ON THE IMPORTANCE OF PARTICIPATION IN CLINICAL RESEARCH AS A WAY TO ACCELERATE THE PATH TO CURES FOR NEURODEGENERATIVE DISEASES. SPECIFICALLY, BRIGHTFOCUS IS A PRESENTATION PARTNER FOR TURNING POINT, A DOCUMENTARY ON THE SCIENTISTS AND CLINICAL TRIAL VOLUNTEERS WORKING TO DEVELOP A NEW ALZHEIMER'S MEDICATION. BRIGHTFOCUS IS HELPING THE FILM BE SHOWN IN COMMUNITY SETTINGS ACROSS THE COUNTRY TO INCREASE THE AWARENESS OF, AND PARTICIPATION IN, ALZHEIMER'S CLINICAL RESEARCH. WE HAVE EXPANDED OUR WRITTEN CONTENT OF KEY RESEARCH FINDINGS, PROMOTING AND SHARING THIS INFORMATION THROUGH OUR WEB SITE AND SOCIAL MEDIA PLATFORMS. BRIGHTFOCUS INFOGRAPHICS EASILY AND VISUALLY COMMUNICATE INFORMATION ON ALZHEIMER'S, MACULAR DEGENERATION, AND GLAUCOMA. IN THE SPRING OF 2020, WE LAUNCHED A FULL SECTION OF OUR

WEBSITE DEDICATED TO SHARING EXCLUSIVE CONTENT ON COVID-19 FOR FAMILIES

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 IMPACTED BY DISEASES OF MIND AND SIGHT. MORE SPECIFICALLY, EACH OF THESE PROGRAM AREAS MAIL AWARENESS-RAISING MATERIALS TO HUNDREDS OF THOUSANDS OF HOUSEHOLDS, WITH MESSAGES FOCUSING ON: - RISK FACTORS AND SYMPTOM RECOGNITION THROUGH PUBLIC AWARENESS AND STEPS THE PUBLIC SHOULD TAKE THAT MAY HELP REDUCE THEIR RISK. LIFESTYLE CHOICES THAT PROMOTE GOOD HEALTH, ENCOURAGING READERS TO TAKE ACTION TO REDUCE THE LIKELIHOOD OF THE ONSET OF THE DISEASE. RESEARCH RESULTS AND TREATMENTS AVAILABLE TO ADDRESS THE DISEASE. BRIGHTFOCUS REGULARLY INTERACTS WITH ADVOCACY ORGANIZATIONS, GOVERNMENTS AT ALL LEVELS, AND MEMBERS OF THE MEDIA TO CALL GREATER ATTENTION TO DISEASES OF MIND AND SIGHT AND SHARE THE LATEST RESEARCH AND BEST PRACTICES WITH THE PUBLIC FIGURES AND KEY STAKEHOLDERS. THROUGH OUR OWN OUTREACH EFFORTS, AS WELL AS ACTIVE ROLES IN ADVOCACY COALITIONS WE HELP ADVANCE THE CAUSE OF PIONEERING SCIENCE AND BETTER POSITION BRIGHTFOCUS AS A RESOURCE FOR THOSE STRUGGLING WITH, AND SEARCHING FOR CURES FOR, THESE TERRIBLE DISEASES. BRIGHTFOCUS IS THE PRESENTING SPONSOR OF THE HELEN KELLER PRIZE FOR VISION RESEARCH, ONE OF THE MOST PRESTIGIOUS RECOGNITIONS IN THE FIELD. SELECTED BY A PANEL OF THE WORLD'S FOREMOST VISION SCIENTISTS, EACH YEAR'S LAUREATE IS HONORED FOR A GROUNDBREAKING CONTRIBUTION OR DISCOVERY TO SAVE SIGHT. BRIGHTFOCUS BEGAN ITS SPONSORSHIP IN 2015 TO CALL GREATER ATTENTION TO VISION RESEARCH ACROSS THE PRIVATE AND PUBLIC

**Employer identification number** Name of the organization BRIGHTFOCUS FOUNDATION 23-7337229 FORM 990, PART III, LINE 4A, DESCRIPTION OF PROGRAM SERVICE: ALZHEIMER'S DISEASE RESEARCH (ADR) -ALZHEIMER'S DISEASE IS THE ONLY CAUSE OF DEATH AMONG THE TOP 10 IN AMERICA WITHOUT A WAY TO PREVENT, CURE, OR EVEN SLOW ITS PROGRESSION. IT IS AN IRREVERSIBLE DEGENERATION OF THE BRAIN THAT CAUSES DISRUPTIONS IN MEMORY, COGNITION, PERSONALITY, AND OTHER FUNCTIONS AND INEVITABLY LEADS TO DEATH. AN ESTIMATED 5.5 MILLION AMERICANS HAVE ALZHEIMER'S DISEASE, ABOUT TWO-THIRDS ARE WOMEN. BRIGHTFOCUS' ADR PROGRAM FUNDS RESEARCH FOCUSED ON UNDERSTANDING THE CAUSES OF ALZHEIMER'S DISEASE, ITS EARLY DETECTION, AND TREATMENTS TO HELP SLOW OR STOP ITS PROGRESSION, AND ULTIMATELY TO PREVENT THE DISEASE ALTOGETHER. ADR ANNUALLY AWARDS PEER-REVIEWED GRANTS TO SCIENTISTS FROM INSTITUTIONS WORLDWIDE WHO ARE CONDUCTING BIOMEDICAL AND CLINICAL RESEARCH ON ALZHEIMER'S DISEASE. SINCE INCEPTION, BRIGHTFOCUS HAS CONTRIBUTED MORE THAN \$154 MILLION TO THE CONQUERING OF ALZHEIMER'S DISEASE. DURING THE FISCAL YEAR ENDED MARCH 31, 2021, ADR AWARDED \$11,650,745 IN PEER-REVIEWED GRANT AWARDS TO 46 NEW RESEARCH PROJECTS AND THIRTEEN OTHER SCIENTIFIC AWARDS TO MAKE A TOTAL OF \$14,187,967 IN FUNDING. NOTABLE PROJECTS INCLUDE: USING THE EYE TO DETECT DEMENTIA; LIFESTYLE EFFECTS ON RISK OF ALZHEIMER'S (INCLUDING LIPIDS); DRUG DISCOVERY; MOLECULAR AND DIGITAL BIOMARKERS; THE ROLE OF INFLAMMATION AND VASCULAR HEALTH IN DISEASE RISK; ROLE OF SLEEP DISTURBANCES CAUSING INCREASED

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 RISK OF COGNITIVE ISSUES; MODELING ALZHEIMER'S IN A DISH; AND BETTER USE OF MODERN TECHNOLOGIES, INCLUDING MOBILE TECHNOLOGIES, BIG DATA, AND SYSTEMS GENETICS ANALYSIS FOR INCREASED AND DECREASED RISKS. ADDITIONAL INFORMATION ABOUT SPECIFIC PROJECTS IS INCLUDED IN SCHEDULES F & I. BRIGHTFOCUS IS HONORED TO HAVE SUPPORTED THE EARLY RESEARCH OF TWO NOBEL PRIZE WINNERS: DR. STANLEY PRUSINER AND DR. PAUL GREENGARD, WHOSE WORK HAS BEEN INSTRUMENTAL TO OUR CURRENT UNDERSTANDING OF ALZHEIMER'S DISEASE. BRIGHTFOCUS CONTINUES ITS PARTNERSHIP WITH THE ACADEMIC JOURNAL "MOLECULAR NEURODEGENERATION" AS THE OFFICIAL JOURNAL OF THE BRIGHTFOCUS FOUNDATION. THE JOURNAL PUBLISHES TECHNICAL PAPERS RELATED TO NEURODEGENERATION IN THE THREE DISEASE AREAS. TO ACCELERATE SCIENTIFIC PROGRESS, IT IS AN "OPEN ACCESS" JOURNAL, AND ALL CONTENT IS FREE OF CHARGE. THIS OPEN ACCESS ENSURES MAXIMAL REACH OF JOURNAL CONTENTS TO SCIENTISTS AND CARE PROVIDERS WORLDWIDE. MOLECULAR NEURODEGENERATION IS CURRENTLY THE HIGHEST IMPACT OPEN ACCESS JOURNAL IN THE NEUROSCIENCES. IN ADDITION TO SUPPORTING CUTTING-EDGE RESEARCH, ALZHEIMER'S DISEASE RESEARCH PROVIDES EXCELLENT RESOURCES ON DETECTING, TREATING, AND LIVING WITH THE DISEASE. THESE ARE AVAILABLE IN BOTH PRINT AS WELL AS ON OUR WEBSITE, WWW.BRIGHTFOCUS.ORG. FORM 990, PART III, LINE 4B, DESCRIPTION OF PROGRAM SERVICE:

MACULAR DEGENERATION RESEARCH (MDR) -

Schedule O (Form 990 or 990-EZ) 2020 Page **2 Employer** identification number Name of the organization BRIGHTFOCUS FOUNDATION 23-7337229 AGE-RELATED MACULAR DEGENERATION IS A LEADING CAUSE OF VISION LOSS IN THE UNITED STATES. IT DESTROYS THE MACULA, THE PART OF THE EYE THAT PROVIDES SHARP, CENTRAL VISION NEEDED FOR SEEING OBJECTS CLEARLY. THE MOST COMMON EYE CONDITION IN PEOPLE AGE 60 AND OLDER, IT CAN LEAD TO VISION LOSS IN ONE OR BOTH EYES, MAKING IT DIFFICULT TO RECOGNIZE FACES, DRIVE A CAR, OR READ. AS MANY AS 11 MILLION AMERICANS HAVE SOME TYPE OF MACULAR DEGENERATION, INCLUDING BOTH THE EARLY AND LATER STAGES OF THE WET AND DRY TYPES. THIS NUMBER IS EXPECTED TO DOUBLE TO NEARLY 22 MILLION BY 2050. MACULAR DEGENERATION RESEARCH (MDR), A PROGRAM OF BRIGHTFOCUS, HAS AWARDED MORE THAN \$39 MILLION TO SCIENTISTS STUDYING THE DISEASE. THE LATEST RESEARCH IS FOCUSED ON NOVEL TREATMENTS FOR THE DISEASE, UNDERSTANDING ITS CAUSES AND PROGRESSION, PREDICTION METHODS AND DISEASE MODELING, DRUG THERAPIES, THE ROLE OF THE METABOLISM IN DISEASE RISK, GENES, THE ROLE OF THE IMMUNE RESPONSE IN DISEASE RISK, AND NEW SCREENING TECHNIQUES.

MDR GRANTS ARE AVAILABLE TO MACULAR DEGENERATION RESEARCHERS WORLDWIDE. MDR PLACES SPECIAL EMPHASIS ON ENCOURAGING APPLICATIONS FROM YOUNG SCIENTISTS AND THOSE WITH CUTTING-EDGE IDEAS. ANNUAL GRANT APPLICATIONS ARE PEER-REVIEWED, AND RECIPIENT SELECTIONS ARE BASED ON SCIENTIFIC MERIT.

DURING THE FISCAL YEAR ENDING MARCH 31, 2021, MDR AWARDED \$6,135,716 IN PEER-REVIEWED GRANT AWARDS TO 20 NEW RESEARCH PROJECTS, WITH 3

ADDITIONAL SCIENTIFIC PROJECTS THAT TAKE THE TOTAL FUNDING TO

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 \$6,175,716. DETAILS ABOUT SPECIFIC PROJECTS ARE INCLUDED IN SCHEDULES F & I. IN ADDITION TO SUPPORTING CUTTING-EDGE RESEARCH, MACULAR DEGENERATION RESEARCH PROVIDES EXCELLENT RESOURCES ON DETECTING, TREATING, AND LIVING WITH THIS DISEASE. THESE ARE AVAILABLE IN BOTH PRINT AS WELL AS ON OUR WEBSITE, WWW.BRIGHTFOCUS.ORG. FORM 990, PART III, LINE 4C, DESCRIPTION OF PROGRAM SERVICE: NATIONAL GLAUCOMA RESEARCH (NGR) -GLAUCOMA IS THE SECOND LEADING CAUSE OF BLINDNESS WORLDWIDE AFFECTING APPROXIMATELY 80 MILLION PEOPLE ACCORDING TO THE WORLD HEALTH ORGANIZATION. MORE THAN THREE MILLION AMERICANS HAVE GLAUCOMA AND IT IS ESTIMATED THAT ONLY HALF OF THE PEOPLE LIVING WITH THE DISEASE ARE AWARE THEY HAVE IT. IN THE UNITED STATES, GLAUCOMA IS A LEADING CAUSE OF BLINDNESS AMONG BLACK AND HISPANIC AMERICANS. WITH EARLY DETECTION AND TREATMENT, GLAUCOMA OFTEN CAN BE MANAGED TO PROTECT EYES FROM MORE SERIOUS VISION LOSS. BRIGHTFOCUS' NGR PROGRAM HAS AWARDED MORE THAN \$43 MILLION WORLDWIDE FOR THE STUDY OF GLAUCOMA. NGR-SUPPORTED RESEARCH HAS BEEN FOCUSED ON THE EYE-BRAIN CONNECTION, THE BIOMECHANICS FOR PRESSURE BUILDUP IN THE EYE, OPTIC NERVE REGENERATION, DISCOVERING GLAUCOMA RISK GENES, AI/DEEP LEARNING, SLEEP DISTURBANCE AND RISK OF DEVELOPING GLAUCOMA, AND DEVELOPING EARLY GLAUCOMA SCREENING AND TARGETED TREATMENTS, AMONGST OTHER INNOVATIVE PURSUITS.

Schedule O (Form 990 or 990-EZ) 2020 Page **2** Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 NGR GRANTS ARE AVAILABLE TO GLAUCOMA RESEARCHERS WORLDWIDE. NGR PLACES SPECIAL EMPHASIS ON ENCOURAGING APPLICATIONS FROM YOUNG SCIENTISTS AND THOSE WITH CUTTING-EDGE IDEAS. ANNUAL GRANT APPLICATIONS ARE PEER-REVIEWED, AND RECIPIENT SELECTIONS ARE BASED ON SCIENTIFIC MERIT. DURING THE FISCAL YEAR ENDING MARCH 31, 2021, NGR AWARDED \$3,097,742 IN PEER-REVIEWED GRANT AWARDS FOR 17 NEW PROJECTS AND SEVEN OTHER SCIENTIFIC AWARDS TO MAKE A TOTAL OF \$4,892,686 IN FUNDING. DETAILS ABOUT SPECIFIC PROJECTS ARE INCLUDED IN SCHEDULES F & I. IN ADDITION TO SUPPORTING CUTTING-EDGE RESEARCH, NATIONAL GLAUCOMA RESEARCH PROVIDES EXCELLENT RESOURCES ON DETECTING, TREATING, AND LIVING WITH THE DISEASE. THESE ARE AVAILABLE IN BOTH PRINT AS WELL AS ON OUR WEBSITE, WWW.BRIGHTFOCUS.ORG. FORM 990, PART VI, SECTION B, LINE 11B:

A DRAFT OF THE FEDERAL FORM 990 IS DISTRIBUTED TO THE AUDIT COMMITTEE FOR REVIEW PRIOR TO BEING SUBMITTED TO THE INTERNAL REVENUE SERVICE. THE DRAFT FEDERAL FORM 990 IS DISTRIBUTED EARLY ENOUGH TO PROVIDE EACH COMMITTEE MEMBER WITH A REASONABLE AMOUNT OF TIME FOR REVIEW AND SUBMISSION OF QUESTIONS OR COMMENTS PRIOR TO THE FILING DEADLINE. THE FINAL FEDERAL FORM 990 IS DISTRIBUTED TO EACH MEMBER OF THE FULL BOARD OF DIRECTORS PRIOR TO BEING FILED WITH THE INTERNAL REVENUE SERVICE. THE DRAFT OR FINAL FEDERAL FORM 990 MAY BE DISTRIBUTED IN PERSON, BY REGULAR MAIL, E-MAIL, OR FAX.

FORM 990, PART VI, SECTION B, LINE 12C:

BRIGHTFOCUS HAS ALL EMPLOYEES, OFFICERS, AND DIRECTORS AGREE TO THE CODE OF

CONDUCT THAT INCLUDES ADHERENCE TO THE CONFLICT OF INTEREST AND

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**Employer** identification number Name of the organization BRIGHTFOCUS FOUNDATION 23-7337229 IMPLEMENTATION POLICY. EACH BOARD DIRECTOR, OFFICER, AND EMPLOYEE IS REQUIRED TO COMPLETE A CONFLICT OF INTEREST DISCLOSURE STATEMENT ANNUALLY. EMPLOYEES MEET ANNUALLY WITH THE BRIGHTFOCUS' CHIEF COMPLIANCE OFFICER TO REVIEW THEIR CONFLICT OF INTEREST STATEMENTS, AND GIVE AN ANNUAL CONFLICT OF INTEREST COMPLIANCE REPORT TO THE BOARD CHAIR AND VICE CHAIR. IF A CONFLICT IS REPORTED, IT IS THEN REFERRED TO THE PRESIDENT/CEO AND/OR BRIGHTFOCUS' LEGAL COUNSEL AND, IF APPROPRIATE AND NECESSARY, THEN TO THE BOARD OF DIRECTORS OR ITS APPOINTED COMMITTEE FOR FURTHER ACTION. THE DIRECTOR'S AND OFFICER'S STATEMENTS ARE REVIEWED BY THE BRIGHTFOCUS LEGAL COUNSEL. IF A CONFLICT IS REPORTED, IT IS THEN REFERRED TO THE BOARD OF DIRECTORS OR ITS APPOINTED COMMITTEE FOR FURTHER ACTION. AT THE TIME OF THE BRIGHTFOCUS DISCUSSION AND DECISION CONCERNING A CONFLICT OF INTEREST, THE CONFLICTED PARTY IS NOT PRESENT IN THE MEETING. FORM 990, PART VI, SECTION B, LINE 15: BRIGHTFOCUS' BOARD OF DIRECTORS HAS OVERALL AUTHORITY AND RESPONSIBILITY FOR APPROVING THE ANNUAL BUDGET WHICH INCLUDES SALARY AND BENEFITS FOR ALL EMPLOYEES AT EVERY LEVEL INCLUDING NON-DIRECTOR OFFICERS AND KEY EMPLOYEES. ALL PAY ADJUSTMENTS ARE MADE ON A YEARLY BASIS EFFECTIVE APRIL 1ST, THE BEGINNING OF THE BRIGHTFOCUS FISCAL YEAR. BEFORE APPROVING THE COMPENSATION OF THE PRESIDENT/CEO, THE BOARD DETERMINES THE TOTAL COMPENSATION TO BE PROVIDED BY BRIGHTFOCUS TO THE PRESIDENT/CEO IS REASONABLE IN LIGHT OF THE POSITION, RESPONSIBILITY AND

OUALIFICATION OF THE POSITION HELD INCLUDING THE RESULT OF AN EVALUATION OF

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Name of the organization BRIGHTFOCUS FOUNDATION **Employer identification number** 23-7337229

PRIOR PERFORMANCE FOR BRIGHTFOCUS, IF APPLICABLE. THE PRESIDENT/CEO IS EVALUATED ANNUALLY BY THE BOARD OF DIRECTORS THROUGH THE USE OF AN IN-DEPTH GOAL ATTAINMENT STRUCTURE, (DEVELOPED WITH ADVICE FROM BOARD SOURCE) THAT INCLUDES A SELF ASSESSMENT AND A BOARD OF DIRECTORS ASSESSMENT AND EVALUATION AGAINST SET GOALS, OUTCOMES AND DELIVERABLES. IN ADDITION, THE BOARD OF DIRECTORS PERIODICALLY ENGAGES AN OUTSIDE CONSULTANT TO OBTAIN AND CONSIDER APPROPRIATE DATA, INCLUDING A SALARY SURVEY, WHICH INCLUDES INFORMATION COMPILED FROM THE FEDERAL FORM 990 OF OTHER ORGANIZATIONS, CONCERNING COMPENSATION PAID TO CEOS IN LIKE CIRCUMSTANCES. IN MAKING THE DETERMINATION, THE BOARD OF DIRECTORS SHALL CONSIDER TOTAL COMPENSATION TO INCLUDE THE SALARY AND VALUE OF ALL BENEFITS PROVIDED BY BRIGHTFOCUS TO THE INDIVIDUAL IN PAYMENT FOR SERVICES. AT THE TIME OF THE BRIGHTFOCUS BOARD DISCUSSION AND DECISION CONCERNING THE PRESIDENT/CEO'S COMPENSATION, THE PRESIDENT/CEO IS NOT PRESENT IN THE MEETING.

THE BOARD SHALL SET FORTH THE BASIS FOR ITS DECISIONS WITH RESPECT TO COMPENSATION IN THE MINUTES OF THE MEETING AT WHICH THE DECISIONS ARE MADE. INCLUDING THE CONCLUSIONS OF THE EVALUATION AND THE BASIS FOR DETERMINING THAT THE INDIVIDUAL'S COMPENSATION WAS REASONABLE IN LIGHT OF THE EVALUATION AND COMPARABILITY DATA.

THE PRESIDENT/CEO IS CHARGED WITH THE SETTING OF SALARIES OF ALL OTHER EMPLOYEES IN ACCORDANCE WITH A COMPENSATION STRUCTURE AND BUDGET APPROVED BY THE BOARD OF DIRECTORS. THE PRESIDENT/CEO AND HUMAN RESOURCES REVIEW EMPLOYEE COMPENSATION AND BENEFITS THAT INCLUDE KEY EMPLOYEES, BY PERIODICALLY ENGAGING AN OUTSIDE CONSULTANT TO CONDUCT COMPENSATION AND BENEFIT BENCHMARKING STUDIES THAT INCLUDE VARIOUS REGIONAL AND NATIONAL NON-PROFIT COMPENSATION REPORTS AND SURVEYS. COMPENSATION DELIBERATIONS AND

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 DECISIONS INCLUDE THE REVIEW OF SELF AND SUPERVISORY EVALUATIONS OF EMPLOYEE PERFORMANCE COMPARED TO SET INDIVIDUAL AND ORGANIZATIONAL GOALS. FORM 990, PART VI, LINE 17, LIST OF STATES RECEIVING COPY OF FORM 990: AK,AL,AR,CA,CT,FL,GA,HI,IL,KS,KY,ME,MD,MA,MI,MN,MO,MS,NC,ND,NH,NJ,NM,NY,OH OK,OR,PA,RI,SC,TN,UT,VA,WA,WI,WV FORM 990, PART VI, SECTION C, LINE 19: BRIGHTFOCUS MAKES ITS GOVERNING DOCUMENTS INCLUDING ITS ARTICLES OF INCORPORATION AND BYLAWS, THE FEDERAL FORM 1023, THE 501(C)(3) LETTER OF DETERMINATION FROM THE INTERNAL REVENUE SERVICE, CONFLICT OF INTEREST POLICY, AUDITED FINANCIAL STATEMENTS AND FEDERAL FORM 990 AVAILABLE TO THE PUBLIC UPON REQUEST. IN ADDITION, THE PUBLIC ALSO HAS ACCESS TO THE ANNUAL REPORT, AUDITED FINANCIAL STATEMENTS, THE 501(C)(3) LETTER OF DETERMINATION FROM THE INTERNAL REVENUE SERVICE, AND FEDERAL FORM 990 ON OUR WEBSITE. FORM 990, PART XI, LINE 9, CHANGES IN NET ASSETS: RECOVERIES OF PRIOR YEAR GRANTS 518,962. CHANGE IN PRESENT VALUE OF GRANTS -7,225. TOTAL TO FORM 990, PART XI, LINE 9 511,737. SCHEDULE F, PART II, LINE 1, COLUMN D: REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY WHITNEY FREEZE, PHD, ENTITLED: (A2021007F) DETECTING LEAKY VESSELS IN CEREBRAL AMYLOID ANGIOPATHY - A NOVEL APPROACH. INVESTIGATORS SUMMARY: THIS PROJECT COMBINES STATE OF THE ART MAGNETIC RESONANCE IMAGING TECHNIQUES WITH DETAILED POST-MORTEM EXAMINATIONS TO EXPLORE ASSOCIATIONS BETWEEN BBB LEAKAGE, SUBTLE HEMORRHAGIC BRAIN PATHOLOGY,

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 AND COGNITIVE FUNCTIONING IN PATIENTS WITH CEREBRAL AMYLOID ANGIOPATHY. THE SUCCESS OF THIS PROJECT WILL ULTIMATELY PROVIDE THE FIELD WITH A NEW TOOL TO PREDICT RISK OF HEMORRHAGES IN DEMENTIA AT AN EARLY STAGE, WHICH WILL BE PIVOTAL IN THE SELECTION OF INDIVIDUALS FOR AMYLOID-MODIFYING THERAPIES, AND FOR THE DEVELOPMENT OF NEW DRUGS TO PREVENT THE FORMATION OF BLEEDS. GRANT AWARDED: \$200,000, LEIDEN UNIVERSITY MEDICAL CENTER - DIRECTORAAT ONDERZOEK, LEIDEN, THE NETHERLANDS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021007F REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY EMIL GUSTAVSSON, PHD, ENTITLED: (A2021009F) THE LANDSCAPE AND EXPRESSION OF APOE TRANSCRIPTS IN HUMAN BRAIN AND ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: CHANGES TO THE APOE RNA MOLECULE THE TEMPLATE PRODUCED BY DNA THAT ALSO TRANSLATES INTO PROTEINS, THE BUILDING BLOCKS IN THE BODY MAY CONTRIBUTE TO THE RISK OF ALZHEIMER'S DISEASE (AD). THE PROPOSED PROJECT WILL USE A NEW TECHNOLOGY CALLED LONG-READ RNA-SEQUENCING TO EXPLORE THE DIFFERENT TYPES OF RNA TRANSCRIPTS THAT ARE PRODUCED IN AD. THIS WILL RESULT IN A FULL LANDSCAPE OF APOE RNA TRANSCRIPTS TO STUDY THEIR EXPRESSION PATTERNS IN NEURONS AND MICROGLIA AND DETERMINE WHETHER FUNCTION CORRELATES WITH DISEASE USING LARGE, PUBLICLY AVAILABLE DATASETS. GRANT AWARDED: \$199,575, UNIVERSITY COLLEGE LONDON, UNITED KINGDOM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021009F REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ALEXA PICHET BINETTE, PHD, ENTITLED: (A2021013F) CHARACTERIZATION OF

TAU PATHOLOGY HETEROGENEITY ACROSS THE ALZHEIMER'S DISEASE SPECTRUM.

Name of the organization

**Employer identification number** 

23-7337229 BRIGHTFOCUS FOUNDATION INVESTIGATORS SUMMARY: THIS STUDY WILL USE THE LATEST POSITRON EMISSION TOMOGRAPHY MARKER TO IMAGE TAU DEPOSITION IN A LARGE, LONGITUDINAL, WELL-CHARACTERIZED COHORT RANGING FROM PRE-CLINICAL OLDER ADULTS TO PEOPLE WITH DEMENTIA. PARTICIPANTS WILL BE GROUPED ACCORDING TO THEIR DIFFERENT TAU SUBTYPES AND ADDITIONALLY CHARACTERIZED USING BIOFLUIDIC, GENETIC, AND COGNITIVE MEASUREMENTS TO UNDERSTAND THE MECHANISMS THAT UNDERLIE THE ACCUMULATION OF PATHOLOGY AND COGNITIVE DECLINE. GRANT AWARDED: \$200,000, LUND UNIVERSITY, DEPARTMENT OF CLINICAL SCIENCES, MALMOE, SWEDEN. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021013F

REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY MAXIME VAN EGROO, PHD, ENTITLED: (A2021016F) THE BRAINSTEM LOCUS COERULEUS: POTENTIAL BRIDGE BETWEEN SLEEP-WAKE DISRUPTION AND ALZHEIMER'S DISEASE PATHOGENESIS. INVESTIGATORS SUMMARY: THE PROPOSED PROJECT POSTULATES THAT A TINY REGION LOCATED DEEP IN THE BRAIN, THE BRAINSTEM LOCUS COERULEUS (LC), IS PARTICULARLY IMPORTANT FOR THE LINK BETWEEN SLEEP-WAKE DISTURBANCES AND THE EARLIEST MANIFESTATIONS OF ALZHEIMER'S DISEASE (AD). INDEED, THE LC IS A CRUCIAL STRUCTURE IN THE CONSOLIDATION OF THE SLEEP-WAKE CYCLE AND HAS BEEN DEMONSTRATED TO BE AMONG THE FIRST REGIONS AFFECTED BY AD. THIS RESEARCH AIMS TO USE ADVANCED BRAIN IMAGING METHODS TO EXTENSIVELY CHARACTERIZE THE LC IN HEALTHY ADULTS ACROSS THE LIFESPAN, IN ORDER TO DETERMINE HOW MODIFICATIONS IN THE STRUCTURE AND FUNCTION OF THE LC RELATE TO CHANGES IN THE SLEEP-WAKE CYCLE, IN THE ACCUMULATION OF HALLMARK AD PATHOLOGIES, AND ULTIMATELY TO COGNITIVE DECLINE. GRANT AWARDED: \$200,000, MAASTRICHT UNIVERSITY, MAASTRICHT, THE NETHERLANDS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE:

Schedule O (Form 990 or 990-EZ) 2020

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229

WWW.BRIGHTFOCUS.ORG/GRANT/A2021016F

REGION: EAST ASIA & PACIFIC (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY XIAOFEN CHEN, PHD, ENTITLED: (A2021023S) PHYSICAL INTERACTION OF TREM2 AND C1Q IN ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: TRIGGERING RECEPTOR EXPRESSED ON MYELOID CELLS 2 (TREM2) IS AN INNATE IMMUNE RECEPTOR SPECIFICALLY EXPRESSED IN MICROGLIA. CODING VARIATIONS IN TREM2 HAVE BEEN REPORTED TO INCREASE THE RISK FOR ALZHEIMER'S DISEASE (AD) AND OTHER NEURODEGENERATIVE DISEASES. THIS PROJECT WILL STUDY THE MECHANISM BY WHICH TREM2 MODULATES AD-RELATED PATHWAYS IN MICROGLIA AND NEURONS TO INFLUENCE COGNITION AND PATHOLOGY IN MOUSE MODELS. GRANT AWARDED: \$300,000, XIAMEN UNIVERSITY, XIAMEN, CHINA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021023S

REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY NICOLAI FRANZMEIER, PHD, ENTITLED: (A2021026S) THE ROLE OF BRAIN CONNECTIVITY AS A MECHANISTIC LINK BETWEEN AMYLOID AND TAU PATHOLOGY SPREAD IN ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: AMYLOID PATHOLOGY IS ASSUMED TO TRIGGER THE SPREAD OF TAU PATHOLOGY ACROSS INTERCONNECTED BRAIN REGIONS. OTHER STUDIES HAVE SHOWN THAT NEURONAL ACTIVITY ENHANCES TAU SPREADING ACROSS CONNECTED NEURONS. THIS STUDY ADDRESSES WHETHER TAU SPREADING ACROSS CONNECTED BRAIN REGIONS IS SPECIFICALLY ENHANCED BY AMYLOID-INDUCED HYPERCONNECTIVITY IN ALZHEIMER'S DISEASE (AD) PATIENTS. USING CUTTING-EDGE NEUROIMAGING PROTOCOLS IN AD PATIENTS, THIS STUDY WILL DETERMINE WHETHER EARLY AMYLOID DEPOSITION IS ASSOCIATED WITH NEURONAL HYPERACTIVITY, THEREBY TRIGGERING TAU SPREAD. GRANT AWARDED: \$297,300, HOSPITAL OF THE LUDWIG MAXIMILIAN UNIVERSITY,

Schedule O (Form 990 or 990-EZ) 2020

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 MUNICH, GERMANY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021026S SCHEDULE F, PART II, LINE 1, COLUMN D: REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY HENNE HOLSTEGE, PHD, ENTITLED: (A2021031S) BLOOD-BASED MARKERS FOR ALZHEIMER'S PATHOLOGY IN COGNITIVELY HEALTHY CENTENARIANS: REVEALING MECHANISMS OF RESISTANCE AND RESILIENCE. INVESTIGATORS SUMMARY: THIS PROPOSAL WILL INVESTIGATE TO WHAT EXTENT CENTENARIANS CAN TOLERATE HIGH LEVELS OF ALZHEIMER RELATED PROTEINS IN THEIR BRAINS (RESILIENCE) AND TO WHAT EXTENT CENTENARIANS ESCAPE THE ACCUMULATION OF THESE ALZHEIMER RELATED PROTEINS (RESISTANCE). STATE OF THE ART TECHNOLOGY WILL BE USED TO MEASURE PROTEINS IN THE BLOOD OF 400 COGNITIVELY HEALTHY CENTENARIANS AND THEIR FAMILY MEMBERS TO DETERMINE WHETHER CENTENARIANS USE DIFFERENT PROTECTIVE MECHANISMS TO MAINTAIN BRAIN FUNCTION. THIS RESEARCH CAN HELP IDENTIFY LIFESTYLE AND GENETIC FACTORS THAT INFLUENCE RESILIENCE AND RESISTANCE. GRANT AWARDED: \$299,707, VU UNIVERSITY MEDICAL CENTER AMSTERDAM, THE NETHERLANDS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021031S REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY SOYON HONG, PHD, ENTITLED: (A2021032S) IMMUNE MECHANISMS OF SYNAPSE LOSS IN ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: RECENT SINGLE-CELL PROFILING STUDIES HAVE SHOWN THAT CERTAIN 'ACTIVATED' MICROGLIA SURROUND AMYLOID PLAQUES IN ALZHEIMER'S DISEASE (AD) BRAINS AND EXPRESS A UNIQUE SET OF GENES, HENCE COINED 'DISEASE-ASSOCIATED MACROPHAGES' (DAMS). WHAT DAMS DO AND WHETHER DAMS ARE BENEFICIAL OR DETRIMENTAL ARE NOT KNOWN. PILOT DATA SUGGEST THAT DAM-LIKE CELLS ARE EXPRESSED EARLY

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Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 IN AD MODELS WHEN SYNAPSES ARE VULNERABLE TO LOSS. THIS PROPOSAL WILL TEST THE HYPOTHESIS THAT DAMS FACILITATE SYNAPSE LOSS IN AD VIA UPREGULATION OF SPP1 (OSTEOPONTIN) AND, DETERMINE WHETHER THIS IS COMPLEMENT DEPENDENT, USING IN VIVO MOUSE AND IN VITRO MODELS AS WELL AS HUMAN AD BRAINS. GRANT AWARDED: \$300,000, UNIVERSITY COLLEGE LONDON, UNITED KINGDOM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021032S REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY RENZO MANCUSO, PHD, ENTITLED: (A2021034S) FROM GENETICS TO THE CELLULAR PHASE OF ALZHEIMER'S DISEASE: UNTANGLING THE ROLE OF LIPID PATHWAYS IN MICROGLIA RESPONSES TO AMYLOID PATHOLOGY. INVESTIGATORS SUMMARY: GENETIC STUDIES REVEAL A LINK BETWEEN NEUROINFLAMMATION AND SUSCEPTIBILITY FOR ALZHEIMER'S DISEASE (AD), SUGGESTING THAT INFLAMMATION MIGHT BE A DRIVER OF THE DISEASE OPPOSED TO JUST A CONSEQUENCE. THIS PROJECT AIMS TO DETERMINE THE LINK BETWEEN AD GENETIC RISK, MICROGLIA, AND LIPID METABOLISM BY COMBINING NOVEL MODELS WHERE HUMAN STEM CELL DERIVED MICROGLIA ARE INJECTED IN AD MICE, AND SINGLE CELL RNA SEQUENCING IS USED FOR IN DEPTH ANALYSIS OF MICROGLIAL FUNCTION. BY DOING THIS, WE WILL BE ABLE TO DISSECT THE CONTRIBUTION OF MICROGLIA AND LIPID METABOLISM IN THE AD BRAIN IN A CRUCIAL HUMAN SYSTEM. GRANT AWARDED: \$199,568, VIBVZW, GENT, BELGIUM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021034S REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY JONAS NEHER, PHD, ENTITLED: (A2021035S) THE ROLE OF HIF-1A IN THE

MICROGLIAL RESPONSE TO ALZHEIMER'S DISEASE PATHOLOGY. INVESTIGATORS

Name of the organization

**Employer** identification number

BRIGHTFOCUS FOUNDATION 23-7337229 SUMMARY: ONE ROLE OF MICROGLIA IS TO SHIELD THE BRAIN FROM THE DAMAGING EFFECTS OF AMYLOID PLAQUES THIS IS CALLED THE MICROGLIAL 'BARRIER FUNCTION'. IMPORTANTLY, GENETIC MUTATIONS THAT DISRUPT THIS MICROGLIAL BARRIER LEAD TO A STRONGLY INCREASED RISK FOR DEVELOPING ALZHEIMER'S DISEASE (AD). PRELIMINARY WORK IDENTIFIED A PREVIOUSLY UNKNOWN MOLECULAR TARGET WHOSE GENETIC ELIMINATION SIGNIFICANTLY INCREASES THE MICROGLIAL BARRIER AROUND AMYLOID PLAQUES. THIS PROJECT WILL CHARACTERIZE THE LONG-TERM EFFECTS OF MANIPULATING THIS MOLECULAR PATHWAY IN TWO INDEPENDENT ANIMAL MODELS OF AD PATHOLOGY, WITH A PARTICULAR FOCUS ON MOLECULAR AND FUNCTIONAL CHANGES IN MICROGLIA, PATHOLOGICAL HALLMARKS OF AD AND MOST IMPORTANTLY, COGNITIVE FUNCTION. GRANT AWARDED: \$289,650, GERMAN CENTER FOR NEURODEGENERATIVE DISEASES, BONN, GERMANY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021035S

REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY JEROME ROBERT, PHD, ENTITLED: (A $2021037\mathrm{S}$ ) THE ROLE OF HDL CONTAINING APOE IN ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: THE ROLE OF THE BRAIN'S BLOOD VESSELS IN ALZHEIMER'S DISEASE IS WELL RECOGNIZED, AS THEY HELP TO CLEAR THE BUILD UP OF CEREBRAL WASTE AND CARDIOVASCULAR DISEASES' RISK FACTORS SUCH AS DIABETES, HYPERTENSION AND DYSLIPIDEMIA WHICH, ARE ASSOCIATED WITH INCREASED RISK OF ALZHEIMER'S DISEASE. HOWEVER, HOW BLOOD-CIRCULATING FACTORS EXACTLY AFFECT BRAIN VESSEL AND NEURON HEALTH REMAINS POORLY UNDERSTOOD MAINLY DUE TO THE LACK OF ADEQUATE EXPERIMENTAL SYSTEM WITH WHICH TO STUDY HOW THE HUMAN BRAIN AND BLOOD INTERACT. USING A HUMAN BLOOD VESSEL GROWN IN THE TEST TUBE, WE AIM HERE TO UNCOVER HOW BLOOD LIPID TRANSPORTER NAMELY HIGH-DENSITY LIPOPROTEIN (HDL, THE GOOD CHOLESTEROL) PROMOTES BRAIN VESSEL HEALTH.

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 GRANT AWARDED: \$300,000, UNIVERSITY HOSPITAL OF ZURICH, SWITZERLAND. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021037S REGION: EAST ASIA & PACIFIC (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY TIMOTHY SARGEANT, PHD, ENTITLED: (A2021040S) REDUCED PROTEIN INTAKE COUNTERACTS ALZHEIMER'S DISEASE: EXAMINATION OF NUTRITION SIGNALING AND THE LYSOSOMAL SYSTEM. INVESTIGATORS SUMMARY: THE BRAIN'S CLEARANCE SYSTEM, CALLED AUTOPHAGY, WORKS LESS EFFICIENTLY WITH AGE, RESULTING IN THE ACCUMULATION AND SPREAD OF TOXIC DISEASE ASSOCIATED PROTEINS. AUTOPHAGY CAN DESTROY AMYLOID PLAQUES ASSOCIATED WITH ALZHEIMER'S DISEASE (AD) AND IT CAN BE ACTIVATED USING DRUGS OR, BY RESTRICTING CERTAIN NUTRIENTS IN THE DIET. IN MICE, REDUCING THE AMOUNT OF PROTEIN IN FOOD DECREASES THE AMOUNT OF PLAQUE MATERIAL THAT ACCUMULATES IN THE BRAIN. THESE FINDINGS WILL BE APPLIED TO HUMANS TO DETERMINE WHETHER REDUCING THE AMOUNT OF PROTEIN CONSUMED IN THE AVERAGE DIET INCREASES AUTOPHAGY; FOR COMPARATIVE PURPOSES, THE SAME DIETARY CHANGES WILL BE APPLIED TO MICE WITH AD. GRANT AWARDED: \$297,266, SOUTH AUSTRALIAN HEALTH AND MEDICAL RESEARCH INSTITUTE, ADELAIDE, AUSTRALIA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021040S SCHEDULE F, PART II, LINE 1, COLUMN D: REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY SUSANNE WEGMANN, PHD, ENTITLED: (A2021044S) UNDERSTANDING TAU-INDUCED NUCLEAR TRANSPORT DEFICITS IN ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: THE ABERRANT INTERACTIONS OF TAU WITH NUCLEOPORE PROTEINS, NUCLEOPORINS (NUPS), INDUCE A PRONOUNCED IMPAIRMENT IN

Name of the organization

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BRIGHTFOCUS FOUNDATION 23-7337229 NUCLEOCYTOPLASMIC TRANSPORT PROCESSES, WHEREBY TWO MECHANISMS SEEM TO PLAY A ROLE: DIRECT BINDING OF SOLUBLE TAU TO NUPS IN PORE COMPLEXES, AND CO-AGGREGATION OF NUPS WITH TAU IN CYTOSOLIC NEUROFIBRILLARY TANGLES, THE HALLMARK TAU PATHOLOGICAL CHANGE IN ALZHEIMER'S BRAINS. TO UNDERSTAND HOW TAU INTERACTS WITH AND IMPAIRS NUCLEAR PORES, THE TAU: NUP INTERACTOME WILL BE DETERMINED IN HUMAN NEURONS AND THESE FINDINGS WILL BE CORRELATED WITH THE STATUS OF HUMAN AD BRAINS. CELLS EQUIPPED WITH A NUCLEAR TRANSPORT REPORTER WILL BE USED TO SCREEN FOR SMALL MOLECULES AND GENETIC MODIFIERS OF TAU-INDUCED NUCLEAR TRANSPORT DEFICITS. GRANT AWARDED: \$299,800, GERMAN CENTER FOR NEURODEGENERATIVE DISEASES, BONN, GERMANY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021044S

REGION: NORTH AMERICA (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY CHERYL WELLINGTON, PHD, ENTITLED: (A2021045S) THE ROLE OF PERIPHERAL APOE IN THE HIGH DENSITY LIPOPROTEIN FRACTION IN VASCULAR CONTRIBUTIONS TO ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: APOE IS MADE BOTH WITHIN THE BRAIN AND OUTSIDE THE BRAIN, BUT THE "BRAIN" AND "BLOOD" POOLS OF APOE ARE SEPARATED BY THE BLOOD BRAIN BARRIER. CIRCULATING HIGH-DENSITY LIPOPROTEIN (HDL) PARTICLES, OR "GOOD CHOLESTEROL", CAN HELP AMYLOID BETA (AB) FROM GETTING STUCK IN THE BLOOD VESSEL WALL AS IT MOVES FROM "BRAIN" TO "BLOOD". IMPORTANTLY, 6% OF HDL ALSO CONTAINS APOE, AND THESE APOE-HDL PARTICLES SEEM TO BE THE BEST AT HELPING AB FROM GETTING STUCK IN THE VESSEL. THIS PROJECT USES A NEW METHOD TO MEASURE APOE-HDL IN 2000 BLOOD SAMPLES FROM PEOPLE WITH DEMENTIA VS. PEOPLE RESISTANT TO DEMENTIA AND USE ADDITIONAL TEST TUBE APPROACHES TO STUDY HOW APOE-HDL ACTS ON THE SMALL BLOOD VESSELS OF THE BRAIN. GRANT AWARDED: \$300,000, UNIVERSITY OF BRITISH COLUMBIA

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 VANCOUVER, BC, CANADA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021045S REGION: NORTH AMERICA (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY SANJEEV KUMAR, MD, ENTITLED: (A2018667S) IDENTIFYING AND TARGETING CORTICAL INHIBITION DEFICITS IN AGITATION/AGGRESSION DUE TO ALZHEIMER'S DEMENTIA. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. GRANT AWARDED: \$56836, CENTRE FOR ADDICTION AND MENTAL HEALTH, TORONTO, ON, CANADA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2018667S REGION: EUROPE (D) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY DR. MARIANNE LEGER ENTITLED: (CA2021013) LOU RAT AS A MODEL OF COGNITIVE RESILIENCE IN THE FIELD OF ALZHEIMER'S DISEASE. INVESTIGATORS SUMMARY: THIS PROJECT, WHICH WILL TAKE PLACE AT UNIVERSITY OF CAEN NORMANDIE, AIMS TO UNDERSTAND THE BRAIN MECHANISMS RESPONSIBLE FOR THIS RESISTANCE TO COGNITIVE DECLINE INDUCED BY ALZHEIMER'S DISEASE. THE IDENTIFICATION OF THESE NEUROPROTECTIVE MECHANISMS IS UNPRECEDENTED.IT WILL THEREFORE MAKE IT POSSIBLE TO DEVELOP INNOVATIVE THERAPEUTIC STRATEGIES TO INCREASE THE COGNITIVE RESERVE OF PEOPLE WITH ALZHEIMER'S DISEASE AND THUS RESIST THE PATHOLOGY. GRANT AWARDED: \$72,046, FONDATION VAINCRE ALZHEIMER, PARIS, FRANCE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2021013 REGION: EUROPE (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY ESTER REINA-TORRES, PHD, ENTITLED: (G2021004F) MECHANISMS CONTROLLING AQUEOUS HUMOUR SEGMENTAL OUTFLOW IN MICE. INVESTIGATORS SUMMARY: THIS

PROJECT WILL CONTRIBUTE TO UNDERSTANDING AQUEOUS HUMOUR DRAINAGE

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 BETTER, WHICH WOULD HELP THE DEVELOPMENT OF MORE EFFECTIVE DRUGS TO LOWER EYE PRESSURE AND TREAT GLAUCOMA. GRANT AWARDED: \$149,999, IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE, LONDON, UNITED KINGDOM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021004F REGION: EAST ASIA & PACIFIC (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY PUYA GHARAHKHANI, PHD, ENTITLED: (G2021009S) HARNESSING ARTIFICIAL INTELLIGENCE APPROACHES TO BETTER UNDERSTAND GENETIC CONTRIBUTIONS TO OPTIC NERVE HEAD DEGENERATION AND GLAUCOMA. INVESTIGATORS SUMMARY: IN THIS STUDY RESEARCHERS PROPOSE APPLYING ARTIFICIAL INTELLIGENCE (AI) APPROACHES TO IDENTIFY THE GENES CONTRIBUTING TO OPTIC NERVE DAMAGE, AS WELL AS ANY TRENDS IN NERVE DAMAGE OVER TIME. THEY WILL INVESTIGATE WHETHER THESE GENES ARE TARGETED BY EXISTING APPROVED DRUGS (USED FOR TREATMENT OF THE OTHER DISEASES), AS THIS PROVIDES AN AVENUE TO DEVELOP NOVEL ACCESSIBLE TREATMENTS FOR GLAUCOMA BLINDNESS AIMED AT PREVENTING OPTIC NERVE DAMAGE. GRANT AWARDED: \$199,802, BERGHOFER MEDICAL RESEARCH INSTITUTE, QUEENSLAND INSTITUTE OF MEDICAL RESEARCH, HERSTON, QLD, AUSTRALIA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021009S SCHEDULE F, PART II, LINE 1, COLUMN D: REGION: EAST ASIA & PACIFIC (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY MICHAEL GIRARD, PHD, ENTITLED: (G2021010S) THE BIOMECHANICAL PHENOTYPE OF NORMAL-TENSION GLAUCOMA. INVESTIGATORS SUMMARY: TO UNDERSTAND WHY SOME PATIENTS WITH NORMAL EYE PRESSURE DEVELOP GLAUCOMA, THIS STUDY PROPOSES ENGINEERING AND ARTIFICIAL

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 INTELLIGENCE TOOLS TO FULLY ASSESS AND UNDERSTAND THE ROBUSTNESS OF THE OPTIC NERVE HEAD (ONH) IN A GIVEN PATIENT. THEIR GOAL IS TO ESTABLISH WHETHER ONH ROBUSTNESS CAN HELP US PREDICT WHO IS AT RISK OF DEVELOPING FUTURE GLAUCOMA DAMAGE, AND IF PROVEN, WE WILL BE ABLE TO PROVIDE EARLIER TREATMENT IN THE EYES THAT ARE DEEMED MECHANICALLY UNSTABLE. GRANT AWARDED: \$200,000, SINGAPORE EYE RESEARCH INSTITUTE, SINGAPORE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021010S REGION: EUROPE (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY PIRRO HYSI, MD, PHD, ENTITLED: (G2021011S) IDENTIFICATION OF POTENTIAL GLAUCOMA THERAPY TARGETS THROUGH INTEGRATED MACHINE LEARNING ANALYSIS OF MULTI-OMIC BIOMARKERS. INVESTIGATORS SUMMARY: THE PURPOSE OF THIS PROJECT IS TO IDENTIFY HIGHLY VARIABLE AND MODIFIABLE MOLECULAR CHANGES THAT PARTICIPATE IN MECHANISMS CAUSING PRIMARY OPEN-ANGLE GLAUCOMA, AS IMMEDIATE TARGETS OF NOVEL TREATMENTS. THIS PROJECT WILL IDENTIFY MODIFIABLE CHANGES OF METABOLISM OR CHEMICAL MODIFICATIONS OF THE DNA THAT LEAD TO GLAUCOMA. THIS PROJECT WILL USE POWERFUL MACHINE LEARNING TO STACK MILLIONS OF DATA POINTS ACQUIRED THROUGH HIGH-THROUGHPUT PLATFORMS ("OMICS") IN A VERY LARGE NUMBER OF INDIVIDUALS TO IDENTIFY ROBUST SIGNALS OF EPIGENETIC AND METABOLIC CHANGES THAT TOGETHER MODULATE THE GLAUCOMA RISK. GRANT AWARDED: \$198,873, KING'S COLLEGE LONDON, UNITED KINGDOM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021011S REGION: NORTH AMERICA (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH

BY MICHAEL REBER, PHD, ENTITLED: (G2021014S) SENSING ELEVATED

INTRA-OCULAR PRESSURE IN MOUSE MODELS OF GLAUCOMA: POTENTIAL ROLE OF

Name of the organization

**Employer identification number** 

BRIGHTFOCUS FOUNDATION 23-7337229 PIEZOS CHANNELS. INVESTIGATORS SUMMARY: THIS STUDY LOOKS INTO A NEW SET OF PRESSURE SENSOR MOLECULES DISCOVERED IN 2010 IN MAMMALS, THE PIEZO1 AND 2 RECEPTORS, EXPRESSED BY RETINAL GANGLION CELLS (RGCS) ARE SENSING EYE PRESSURE. IN THIS PROJECT, RESEARCHERS WANT TO INVESTIGATE FURTHER THE ROLE OF PIEZO1 AND 2 RECEPTORS IN SENSING EYE PRESSURE IN AN ANIMAL MODEL OF GLAUCOMA USING PHARMACOLOGICAL AND GENETIC APPROACHES AND MEASURE THE EFFECT ON RGC DEATH. GRANT AWARDED: \$200,000, UNIVERSITY HEALTH NETWORK, TORONTO, ON, CANADA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021014S REGION: EAST ASIA & PACIFIC (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY ZHICHAO WU, PHD, ENTITLED: (G2021016S) ACCURATE PREDICTION AND DETECTION OF GLAUCOMA PROGRESSION USING HYPERSPECTRAL AND WIDEFIELD OPTICAL COHERENCE TOMOGRAPHY IMAGING. INVESTIGATORS SUMMARY: THIS PROJECT COULD PROVIDE THE MUCH-NEEDED TOOLS TO BETTER GUIDE THE DECISION MAKING IN GLAUCOMA TREATMENT. THESE TOOLS CAN ALSO BE USED TO EXPEDITE THE DISCOVERY OF NEW TREATMENTS IN GLAUCOMA, BY IMPROVING OUR ABILITY TO IDENTIFY HIGH-RISK INDIVIDUALS TO ENROLL IN CLINICAL TRIALS AND BY PROVIDING SENSITIVE OUTCOME MEASURES TO DETECT TREATMENT EFFECTS OVER A MUCH SHORTER TIMEFRAME. GRANT AWARDED: \$199,504, CENTRE FOR EYE RESEARCH AUSTRALIA LIMITED, EAST MELBOURNE, AUSTRALIA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021016S REGION: EUROPE (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY DARRYL OVERBY, PHD, ENTITLED: (CG2020003) SELECTIVE TARGETING OF SCHLEMM'S CANAL INNER WALL FOR NEXT-GENERATION GLAUCOMA DRUGS: SUBPART

INVESTIGATORS SUMMARY: GLAUCOMA IS A BLINDING EYE DISEASE THAT CAN

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 ONLY BE TREATED BY LOWERING EYE PRESSURE. OUR RESEARCH HAS IDENTIFIED A PARTICULAR CELL TYPE (SCHLEMM'S CANAL CELLS) THAT REGULATE EYE PRESSURE BY CONTROLLING THE DRAINAGE OF AOUEOUS HUMOR FROM THE EYE. IN THIS WE WILL DEVELOP AND APPLY NOVEL SCREENING TECHNOLOGIES TO PROJECT, IDENTIFY NEW DRUGS TO LOWER EYE PRESSURE BY IMPROVING AQUEOUS HUMOR DRAINAGE ACROSS SCHLEMM'S CANAL CELLS. GRANT AWARDED: \$391,901, IMPERIAL COLLEGE OF LONDON, UNITED KINGDOM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CG2020003 REGION: EUROPE (D) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY DARRYL OVERBY, PHD, ENTITLED: (CG2020003A) SELECTIVE TARGETING OF SCHLEMM'S CANAL INNER WALL FOR NEXT-GENERATION GLAUCOMA DRUGS: SUBPART EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. GRANT AWARDED: \$62,148, IMPERIAL COLLEGE OF LONDON, UNITED KINGDOM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CG2020003 SCHEDULE F, PART II, LINE 1, COLUMN D: REGION: NORTH AMERICA (D) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY BRITTANY CARR, PHD, ENTITLED: (M2021001F) TRACKING THE DEVELOPMENT OF RETICULAR PSEUDODRUSEN AND AGE-RELATED RETINAL DISEASE IN PROM1-NULL X. LAEVIS.. INVESTIGATORS SUMMARY: THIS STUDY INVOLVES CHARACTERIZING A NEW ANIMAL MODEL OF AGE-RELATED MACULAR DEGENERATION (AMD) THAT WILL PROVIDE SIGNIFICANT INSIGHT INTO THE RELATIONSHIP BETWEEN RETICULAR PSEUDODRUSEN (RPD)AND AMD PROGRESSION. ESTABLISHING RPD AS AN EARLY-INDICATOR OF AMD AND UNDERSTANDING ITS ROLE IN AMD PROGRESSION WILL RESULT IN MORE EFFECTIVE PREVENTION OF AMD-ASSOCIATED BLINDNESS. GRANT AWARDED: \$189,570, UNIVERSITY OF BRITISH COLUMBIA

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 VANCOUVER, BC, CANADA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021001F REGION: NORTH AMERICA (D) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY RONY CHIDIAC, PHD, ENTITLED: (M2021003F) NOVEL FRIZZLED-4/LRP5 ANTIBODY-BASED AGONIST FOR NEOVASCULAR MACULAR DEGENERATION. INVESTIGATORS SUMMARY: FOR THE FIRST TIME, RESEARCHERS OF THIS STUDY COULD PRECISELY ACTIVATE ONE RECEPTOR OF THE MANY MIMICKING WNT PROTEINS AND STUDY ITS ROLE IN BLOOD VESSEL FORMATION AND INTEGRITY. THEY AIM TO TEST THIS MOLECULE'S THERAPEUTIC POTENTIAL IN MODELS MIMICKING THE NEOVASCULAR AGE-RELATED MACULAR DEGENERATION (AMD). THESE SYNTHETIC AGONISTS ARE ATTRACTIVE THERAPEUTIC MODALITIES TO CONTROL THE FORMATION OF NEW BLOOD VESSELS DURING NEOVASCULAR AMD. GRANT AWARDED: \$200,000, UNIVERSITY OF TORONTO, ON, CANADA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021003F REGION: MIDDLE EAST (D) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY MICHELLE GRUNIN, PHD, ENTITLED: (M2021006F) INTEGRATED IMMUNOGENOMICS TO DEVELOP TRANSLATIONAL TREATMENT FOR AGE-RELATED MACULAR DEGENERATION. INVESTIGATORS SUMMARY: THIS STUDY WILL USE NOVEL TECHNOLOGICAL TOOLS AND DIVERSE ANCESTRY REFERENCE PANELS THAT WERE PREVIOUSLY UNAVAILABLE, TO IDENTIFY NEW GENETIC RISK FACTORS FOR AGE-RELATED MACULAR DEGENERATION (AMD) AND POSSIBLE NEW GENETIC OR IMMUNE SYSTEM TARGETS FOR TREATMENT OF THE DISEASE. RESEARCHERS WILL UTILIZE THE EXISTING GENETICS OF THE INTERNATIONAL AMD GENOMICS CONSORTIUM, WITH OVER 50,000 SAMPLES, TO INVESTIGATE THESE ISSUES ON A LARGE SCALE. UTILIZING MULTIETHNIC PARTICIPANTS WILL ALLOW FOR

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 DISCOVERY OF RARE GENETIC VARIANTS NOT PREVIOUSLY INVESTIGATED. GRANT AWARDED: \$200,000, HEBREW UNIVERSITY OF JERUSALEM, ISRAEL. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021006F REGION: EAST ASIA & PACIFIC (D) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY YVETTE WOOFF, PHD, ENTITLED: (M2021012F) THERAPEUTIC REPLENISHMENT OF HOMEOSTATIC MICRORNA USING EXTRACELLULAR VESICLES FOR THE TREATMENT OF AGE-RELATED MACULAR DEGENERATION. INVESTIGATORS SUMMARY: IN THE RETINA, EXTRACELLULAR VESICLES (EV) ARE RESPONSIBLE FOR MEDIATING THIS ESSENTIAL COMMUNICATION AND WORK BY DELIVERING MOLECULAR CARGO, INCLUDING SMALL GENE REGULATORS CALLED MICRORNA (MIRNA), TO TARGET CELLS AND ARE REDUCED WITH DEGENERATING RETINA. IN THIS STUDY, RESEARCHERS WILL SUPPLEMENT THE DEGENERATING RETINA WITH ESSENTIAL RETINAL EV CARGO DERIVED FROM DONOR STEM CELLS AND INVESTIGATE THE EFFECT ON RETINAL HEALTH. GRANT AWARDED: \$198,062, THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021012F SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: MASSACHUSETTS GENERAL HOSPITAL. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY MOUSTAFA ALGAMAL, ENTITLED: (A2021001F) RESTORING SLEEP AND MEMORY DEFICITS IN ALZHEIMER'S DISEASE BY TARGETING SOMATOSTATIN INTERNEURONS. INVESTIGATOR'S SUMMARY: SLOW-WAVE SLEEP IS CLOSELY ASSOCIATED WITH MEMORY PERFORMANCE IN HEALTHY INDIVIDUALS AND IS ALSO DISRUPTED IN ALZHEIMER'S DISEASE. THIS PROJECT AIMS TO FIND AND ACTIVATE THE GROUP OF NEURONS RESPONSIBLE FOR SLOW-WAVE SLEEP REGULATION AND IMPROVE THEIR

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Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 FUNCTION IN ALZHEIMER'S DISEASE (AD) MOUSE MODELS THROUGH TWO DIFFERENT APPROACHES. THE FIRST APPROACH WILL UTILIZE A NOVEL GENETIC TECHNOLOGY TO ACTIVATE THESE NEURONS WITH LIGHT, FOLLOWED BY ASSESSING MEMORY AND PATHOLOGY OF AD IN ANIMALS. THE SECOND APPROACH WILL RELY ON PHARMACOLOGICAL APPROACHES TO SUPPORT THE FUNCTION OF THESE NEURONS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021001F NAME OF ORGANIZATION OR GOVERNMENT: BROWN UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY BENEDETTA ASSETTA, PHD, ENTITLED: (A2021002F) ASTROGLIAL INFLAMMATORY SIGNALING IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: NEUROINFLAMMATION SITS AT THE CENTER OF ALZHEIMER'S DISEASE (AD) PATHOGENESIS. THIS STUDY WILL INVESTIGATE THE REGULATORY ROLE OF CHI3L1, AN INFLAMMATORY MOLECULE THAT CORRELATES WITH AD DEVELOPMENT. THE BIOLOGICAL MECHANISMS OF CHI3L1 IN AD PATHOLOGY WILL BE STUDIED USING PATIENT DERIVED STEM CELLS AND ANIMAL MODELS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021002F NAME OF ORGANIZATION OR GOVERNMENT: YALE UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY YIFEI CAI, PHD, ENTITLED: (A2021003F) MOLECULAR MECHANISMS OF AXONAL PATHOLOGY IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: AMYLOID DEPOSITS IN ALZHEIMER'S DISEASE ARE SURROUNDED BY AXONS WITH ABNORMALLY ENLARGED BULBOUS STRUCTURES. THESE STRUCTURES SEVERELY AFFECT AXONAL CONDUCTION OF SIGNALS AND THAT THIS MAY BE CORRELATED WITH MEMORY LOSS IN HUMANS. THE GOAL OF THIS PROJECT IS TO INVESTIGATE THE MOLECULAR AND CELLULAR MECHANISMS INVOLVED IN THE FORMATION OF THESE BULBS AND DETERMINE IF

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 REVERSING THIS PATHOLOGY IS POSSIBLE, AND IF SO WHETHER THIS CAN RESTORE NORMAL AXONAL FUNCTION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021003F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, BERKELEY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY XI CHEN, PHD, ENTITLED: (A2021004F) THE RELATIONSHIP BETWEEN AMYLOID/TAU PATHOLOGY AND DIFFERENT MEMORY PROCESSES UNDERLYING MEMORY AGING. INVESTIGATOR'S SUMMARY: THE PROPOSED PROJECT, FOCUSING ON EARLY STAGE ALZHEIMER'S DISEASE (AD), WILL EXAMINE THE BRAIN AND BEHAVIORAL DEFICITS IN OLDER ADULTS WITH NORMAL COGNITIVE PERFORMANCE BUT ALREADY HARBORING AD PATHOLOGY. THIS STUDY WILL USE FUNCTIONAL MRI TO INVESTIGATE HOW DIFFERENT BRAIN REGIONS ACTIVATE WHEN PARTICIPANTS VIEW PICTURES OF AN OBJECT, A SCENE, AND AN OBJECT IN A SCENE. PARTICIPANTS WILL COMPLETE A SURPRISE MEMORY TEST ON THE PICTURES 20 MINUTES LATER. THESE RESULTS WILL ISOLATE BRAIN ACTIVITIES THAT ARE CRITICAL FOR SUCCESSFUL MEMORY. PET IMAGING WILL THEN BE USED TO VISUALIZE THE DEPOSITION OF AMYLOID BETA AND TAU IN THE BRAIN TO DETERMINE THE SPECIFIC EFFECT THESE PROTEINS HAVE ON DIFFERENT DOMAINS OF MEMORY PERFORMANCE (OBJECT, SCENE, AND INTEGRATED OBJECT-SCENE MEMORY) AND WHAT BRAIN REGIONS ARE MOST AFFECTED. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021004F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF PENNSYLVANIA. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY APRIL DARLING, PHD, ENTITLED: (A2021005F) ENGINEERING THERAPEUTIC TRIM11 DISAGGREGASES. INVESTIGATOR'S SUMMARY: A CLASS OF HELPFUL PROTEINS KNOWN AS DISAGGREGASES HAVE THE ABILITY TO DISSOLVE PROTEIN AGGREGATES. ONE

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 RECENTLY IDENTIFIED IS TRIM11, AN IMPRESSIVE PROTEIN THAT CAN DISSOLVE PRE-FORMED AGGREGATES AND TARGET THEM FOR DEGRADATION LEADING TO DIMINISHED DISEASE SYMPTOMS. WHILE TRIM11 IS IMPRESSIVE, PROTEIN DISAGGREGASES CAN BE ENGINEERED TO HAVE ENHANCED ACTIVITY LEADING TO A MORE ROBUST RESCUE. ADDITIONALLY, TRIM PROTEINS CAN BE ENGINEERED FOR SPECIFICITY OF A PRE-DEFINED TARGET. THIS PROPOSAL WILL ENGINEER TRIM11 VARIANTS AND TEST THEIR ABILITY TO RESCUE TOXICITY INDUCED BY AGGREGATING PROTEINS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021005F NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC ARIZONA. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY CAMILA DE AVILA DAL BO, PHD, ENTITLED: (A2021006F) NUCLEUS INCERTUS OF THE BRAIN: MAPPING ITS GENOMIC EXPRESSION AND CHANGES IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: CERTAIN AREAS IN THE BRAINSTEM, SUCH AS THE LOCUS COERULEUS, ARE HIGHLY VULNERABLE TO NEURODEGENERATIVE CONDITIONS, INCLUDING ALZHEIMER'S DISEASE. A RECENT LANDMARK PAPER PUBLISHED IN SCIENCE ESTABLISHED A KEY ROLE FOR THE BRAINSTEM REGION KNOWN AS THE NUCLEUS INCERTUS (NI) IN MEMORY, BY CONFIRMING IN MICE STRONG NEURAL COMMUNICATION BETWEEN THE NI AND THE HIPPOCAMPUS, A BRAIN REGION CRUCIAL FOR LEARNING AND MEMORY. IN HUMANS, THE SPECIFIC FUNCTIONS OF NI NEURONS AND THEIR CHEMICAL MESSENGERS, PRECISE DISTRIBUTION, AND CONNECTIVITY, ARE CURRENTLY UNKNOWN. THE MAIN GOAL OF THIS PROJECT IS TO INVESTIGATE THE NI IN HUMANS AND ELUCIDATE THE ROLE OF THE NI IN DEMENTIA AND ALZHEIMER'S DISEASE PATHOLOGY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021006F

NAME OF ORGANIZATION OR GOVERNMENT: BAYLOR COLLEGE OF MEDICINE. (H)

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY LINDSEY GOODMAN, ENTITLED: (A2021008F) DEFINING CONNECTIONS BETWEEN ROS-INDUCED PHD, GLIAL LIPID DROPLETS AND TAU IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: TWO EARLY EVENTS THAT MAY CONTRIBUTE TO ALZHEIMER'S DISEASE (AD)-ONSET ARE THE DYSREGULATION OF LIPIDS AND EXCESS ACCUMULATION OF REACTIVE OXYGEN SPECIES (ROS). IN FLY AND MOUSE BRAINS, NEURONS EXPRESSING ROS PRODUCE PEROXIDATED LIPIDS THAT ARE TRANSFERRED TO GLIA WHERE THEY FORM LIPID DROPLETS. WITHIN GLIA, THESE LIPIDS ARE RESOLVED, PROTECTING NEURONS FROM ROS-INDUCED DAMAGE. MOUSE DATA SUGGESTS THAT TAU PLAYS A NORMAL ROLE IN THE RESOLUTION OF ROS IN THE BRAIN PRIOR TO THE FORMATION OF TAU TANGLES. THIS PROPOSAL WILL INVESTIGATE HOW TAU FUNCTIONS TO MEDIATE ROS IN AD BY DISRUPTING THE FORMATION OF LIPID DROPLETS AND EXAMINING TAU HYPERPHOSPHORYLATION AND AGGREGATION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021008F

SCHEDULE I, PART II, LINE 1, COLUMN (H):

NAME OF ORGANIZATION OR GOVERNMENT: THE JACKSON LABORATORY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY NIRAN HADAD, PHD, ENTITLED: (A2021010F) SYSTEMS GENETICS ANALYSIS OF ALZHEIMER'S DISEASE RELATED SLEEP DISRUPTION. INVESTIGATOR'S SUMMARY: TRADITIONAL MOUSE MODELS OF ALZHEIMER'S DISEASE (AD) HAVE PROVIDED SUBSTANTIAL INSIGHTS INTO POSSIBLE MECHANISMS CAUSING SLEEP LOSS IN AD. HOWEVER, THESE MODEL LACKS THE GENETIC DIVERSITY REQUIRED TO IDENTIFY GENES CONFERRING INDIVIDUAL RISK TO DEVELOP AD-RELATED SLEEP LOSS AND SUBSEQUENT COGNITIVE DECLINE. THE WORK PROPOSED HERE SEEKS TO IDENTIFY GENES THAT UNDERLIE AN INDIVIDUALS' RISK FOR DEVELOPING ALZHEIMER'S-RELATED LOSS

OF SLEEP USING A WELL-CHARACTERIZED, GENETICALLY DIVERSE MOUSE MODEL OF

Name of the organization

**Employer** identification number

BRIGHTFOCUS FOUNDATION 23-7337229 AD THAT BETTER MODELS THE COMPLEXITY OF HUMAN GENETIC DIVERSITY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021010F NAME OF ORGANIZATION OR GOVERNMENT: STANFORD UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY HARINI IYER, PHD, ENTITLED: (A2021011F) LYSOSOMAL SIGNALING IN MICROGLIA AND ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: MICROGLIA CHEW UP DEAD CELLS AND FIGHT INFECTIONS IN THE BRAIN TO MAKE SURE THAT OTHER BRAIN CELLS, SUCH AS NEURONS, FUNCTION NORMALLY. WHEN MICROGLIA EAT BACTERIA OR DEAD MATERIAL, THIS MATERIAL PASSES THROUGH THE LYSOSOME, WHERE IT GETS RECYCLED OR BROKEN UP INTO SMALLER PIECES. DNA MUTATIONS IN PEOPLE WITH ALZHEIMER'S DISEASE OCCUR IN GENES THAT ARE IMPORTANT FOR MICROGLIA AND LYSOSOME FUNCTION. THIS PROJECT WILL INVESTIGATE HOW THESE GENES ARE IMPORTANT FOR THE NORMAL ACTIVITY OF MICROGLIA AND LYSOSOMES AND HOW, OVER TIME, THEY CAN CAUSE MICROGLIA TO SWITCH FROM BEING GOOD FOR THE BRAIN TO HARMING BRAIN CELLS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021011F NAME OF ORGANIZATION OR GOVERNMENT: WASHINGTON UNIVERSITY SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY KARIN MEEKER, PHD, ENTITLED: (A2021012F) TAU PHOSPHORYLATION IN PRECLINICAL AND SYMPTOMATIC AUTOSOMAL DOMINANT ALZHEIMER DISEASE. INVESTIGATOR'S SUMMARY: CHANGES IN BLOOD TAU LEVELS, COGNITIVE TESTS, AND BRAIN NETWORK CONNECTIVITY CAN BE USED AS BIOMARKERS TO MAP DISEASE PROGRESSION AND INDICATE CONVERSION FROM PRECLINICAL TO CLINICAL ALZHEIMER'S DISEASE (AD). IT IS UNKNOWN, HOWEVER, HOW VARIOUS PHOSPHORYLATION SITES ON TAU ARE ASSOCIATED WITH BRAIN NETWORK

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 ORGANIZATION AND WHETHER THEY CONTRIBUTE TO THE PROPAGATION OF TAU THROUGH BRAIN NETWORKS. THIS STUDY WILL USE NEUROIMAGING, CEREBROSPINAL FLUID, AND COGNITIVE MARKERS TO CHARACTERIZE AND STAGE THE TEMPORAL AND SPATIAL PROGRESSION OF TAUOPATHY OCCURRING DURING THE TRANSITION PERIOD IN AUTOSOMAL DOMINANT AD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021012F NAME OF ORGANIZATION OR GOVERNMENT: ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ANNA PODLESNY-DRABINIOK, PHD, ENTITLED: (A2021014F) INVESTIGATING THE ROLE OF LIVER X RECEPTORS IN CONTROL OF ALZHEIMER'S DISEASE RISK GENES AND LIPID CLEARANCE IN HIPSC-DERIVED MICROGLIA. INVESTIGATOR'S SUMMARY: ANALYSIS OF GENETIC FACTORS CONTRIBUTING TO ALZHEIMER'S DISEASE (AD) POINT TO THE CRITICAL ROLE OF BRAIN IMMUNE CELLS (MICROGLIA) AND FUNCTIONS THAT THEY EXERT SUCH AS EFFICIENT REMOVAL OF DYING CELLS IN THE PROCESS CALLED PHAGOCYTOSIS. IN AD BRAINS, IMMUNE CELLS ARE UNABLE TO PROPERLY REMOVE AMYLOID PLAQUES, AND THEY SUSTAIN INFLAMMATION CONTRIBUTING TO DISEASE PROGRESSION. THIS PROJECT WILL TEST WHETHER LIVER X RECEPTORS AND THE AD RISK GENE, BHLHE40/41, ARE MASTER REGULATORS OF MICROGLIAL PHAGOCYTOSIS USING HUMAN CELLS CARRYING AD MUTATIONS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021014F NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC JACKSONVILLE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ANA-CAROLINE RAULIN, PHD, ENTITLED: (A2021015F) PROTECTIVE MECHANISM OF APOE3-CHRISTCHURCH IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: APOLIPOPROTEIN E (APOE)

IS A PROTEIN WITH THE PRINCIPAL FUNCTION OF CARRYING LIPIDS AND

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 CHOLESTEROL THROUGHOUT THE BODY. GENETIC VARIANTS OF THE APOE GENE AND RESULTING APOE PROTEIN HAVE DIFFERENT EFFECTS ON ALZHEIMER'S DISEASE STATUS. APOE4 INCREASES RISK, APOE3 IS NEUTRAL, AND APOE2 IS PROTECTIVE. RECENTLY, A RARE VERSION OF APOE CALLED APOE3-CHRISTCHURCH (APOE-CH) HAS BEEN SHOWN TO BE HIGHLY PROTECTIVE AGAINST AD. THIS STUDY WILL USE ANIMAL MODELS, HUMAN STEM CELLS, AND CEREBRAL ORGANOIDS ('MINI-BRAINS IN A DISH') TO UNDERSTAND HOW APOE3-CH PROTECTS THE BRAIN FROM THE TOXIC EFFECTS OF BETA-AMYLOID ACCUMULATION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021015F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF FLORIDA. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY REBECCA WALLINGS, D.PHIL, ENTITLED: (A2021017F) THE ROLE OF THE PERIPHERAL IMMUNE-SYSTEM IN FTD-GRN; INCREASING UNDERSTANDING FOR FUTURE THERAPEUTIC TARGET DEVELOPMENT. INVESTIGATOR'S SUMMARY: PREVIOUS EVIDENCE SUGGESTS THAT MICROGLIA ARE NOT THE ONLY CULPRIT IN FRONTOTEMPORAL DEMENTIA (FTD), BUT RATHER, IMMUNE CELLS NORMALLY FOUND IN CIRCULATING BLOOD (MONOCYTES) INFILTRATE INTO THE BRAIN AND MAY PLAY A ROLE IN NEURODEGENERATION. LYSOSOMES, ORGANELLES IN CELLS RESPONSIBLE FOR PROTEIN RECYCLING AND CELL SIGNALING, ARE CRUCIAL FOR PROPER IMMUNE CELL FUNCTION, AND MAY BE DYSREGULATED IN FTD MONOCYTES. USING A COMBINATION OF MOUSE MODELS AND FTD-PATIENT SAMPLES, THIS RESEARCH AIMS TO UNVEIL THE ROLE OF THESE PERIPHERAL IMMUNE CELLS AND DYSFUNCTIONAL LYSOSOMES IN THE DEVELOPMENT OF FTD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021017F

NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, SAN

Name of the organization

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BRIGHTFOCUS FOUNDATION 23-7337229 FRANCISCO. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY XIAOWEI WANG, PHD, ENTITLED: (A2021018F) DETERMINING MECHANISMS OF AGE-RELATED CEREBROVASCULAR DYSFUNCTION IN A GENETIC MODEL OF CEREBRAL SMALL VESSEL DISEASE. INVESTIGATOR'S SUMMARY: TYPE IV COLLAGEN (ENCODED BY COL4A1 AND COL4A2 GENES) IS A FUNDAMENTAL COMPONENT OF THE VASCULAR BASEMENT MEMBRANE A SHEET-LIKE STRUCTURE AROUND BLOOD VESSELS THAT PROVIDES PHYSICAL SUPPORT AND ACTS AS A PLATFORM FOR SIGNALING. PATIENTS WITH MUTATIONS IN COL4A1 OR COLA2 HAVE VERY HIGH PREVALENCE OF CEREBRAL SMALL VESSEL DISEASES AND GENETIC ASSOCIATION STUDIES ALSO IMPLICATE THESE TWO GENES IN GENERAL CEREBROVASCULAR HEALTH. COL4A1 MUTANT MICE FAITHFULLY REPLICATE HUMAN PATHOLOGIES AND SHOW AGE-DEPENDENT LOSS OF CEREBROVASCULAR TONE, WHICH COULD FURTHER CAUSE COGNITIVE IMPAIRMENT. USING THIS MOUSE MODEL, THIS PROPOSAL AIMS TO IDENTIFY THE EARLY VASCULAR CHANGES AND UNDERLYING MOLECULAR MECHANISMS THAT ULTIMATELY LEAD TO THE AGE-DEPENDENT LOSS OF CEREBROVASCULAR TONE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021018F SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: J. DAVID GLADSTONE INSTITUTES. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ZHAOQI YAN, PHD, ENTITLED: (A2021019F) FIBRINGGEN-MEDIATED INNATE IMMUNE ACTIVATION AND NEURONAL DYSFUNCTION IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: FIBRINOGEN, A BLOOD COAGULATION PROTEIN, DEPOSITS IN THE BRAINS OF PEOPLE WITH ALZHEIMER'S DISEASE (AD) AND CAUSES MICROGLIA ACTIVATION, OXIDATIVE STRESS, NEURONAL LOSS, AND COGNITIVE IMPAIRMENT. THIS PROPOSAL WILL USE A MULTI-PRONGED EXPERIMENTAL DESIGN TO EXAMINE THE

CEREBROVASCULAR MECHANISMS REGULATING NEURONAL DYSFUNCTION IN AD.

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 STATE-OF-THE-ART IMAGING WILL BE USED TO STUDY THE INTERACTION OF FIBRINOGEN AND NEURONS IN LIVING MICE WITH SUBCELLULAR RESOLUTION. THE TRANSCRIPTIONAL MACHINERY UNDERLYING FIBRINOGEN-MEDIATED OXIDATIVE STRESS WILL BE DETERMINED AND USED TO GENERATE A GLOBAL TRANSCRIPTIONAL ATLAS IN THE BRAIN OF AD MICE AT SINGLE-CELL LEVEL. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021019F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, SAN FRANCISCO. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY BEIKA ZHU, PHD, ENTITLED: (A2021020F) CHARACTERIZING THE ROLE OF MICROGLIAL GPR56 IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: THIS PROPOSAL WILL TEST THE HYPOTHESIS THAT MICROGLIAL GPR56, A CELL SURFACE PROTEIN THAT RECEIVES SIGNALS FROM NEIGHBORING CELLS, PLAYS A ROLE IN MAINTAINING BRAIN FUNCTION AND STOPS ALZHEIMER'S DISEASE (AD) PROGRESSION. CPR56 FUNCTION WILL BE DETERMINED BY GENERATING A NEW MOUSE MODEL WHERE CPR56 ACTIVITY IS INHIBITED, OR KNOCKED DOWN. INVESTIGATING CHANGES IN INFLAMMATORY RESPONSES, MEMORY, AND MOTOR FUNCTION, WILL ELUCIDATE THE MECHANISMS BY WHICH GPR56 MEDIATES AD ONSET AND PROGRESSION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021020F NAME OF ORGANIZATION OR GOVERNMENT: ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY KATHRYN BOWLES, PHD, ENTITLED: (A2021021S) SINGLE CELL PROFILING OF MAPT SPLICING MUTATION IPSC-DERIVED ORGANOIDS AND BRAIN TISSUE. INVESTIGATOR'S SUMMARY: PROGRESSIVE SUPRANUCLEAR PALSY (PSP) AND FRONTOTEMPORAL DEMENTIA (FTD) ARE AGE-RELATED DEMENTIAS ASSOCIATED WITH

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 THE ACCUMULATION OF 4R TAU. PSP AND FTD CAN BE CAUSED BY SPECIFIC MUTATIONS ON THE GENE ENCODING FOR TAU, MAPT. A PANEL OF IPSC LINES THAT CARRY SPECIFIC PSP/FTD MUTATIONS AND HAVE INCREASED 4R TAU EXPRESSION, WILL BE USED TO GENERATE 3D BRAIN ORGANOIDS. GENE EXPRESSION ANALYSES AND PHENOTYPIC ASSAYS WILL BE CONDUCTED TO IDENTIFY EARLY CHANGES ASSOCIATED WITH 4R TAU AND THE DEVELOPMENT OF DISEASE. NEXT, BULK AND SINGLE-NUCLEI SEQUENCING WILL BE CARRIED OUT ON BRAIN TISSUES FROM INDIVIDUALS WITH THE SAME MAPT MUTATIONS TO VALIDATE THESE CHANGES AND THOROUGHLY CHARACTERIZE THE IMPACT OF 4R TAU ACCUMULATION IN ADULT HUMAN BRAIN. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021021S NAME OF ORGANIZATION OR GOVERNMENT: BRIGHAM AND WOMEN'S HOSPITAL, INC. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY OLEG BUTOVSKY, PHD, ENTITLED: (A2021022S) APOE4 GENDER-DEPENDENT REGULATION OF NEUTROPHIL-MICROGLIA CRASS-TALK IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: APOE PLAYS A CRITICAL ROLE IN INDUCING MICROGLIAL PHENTOYPES THAT ARE ASSOCIATED WITH NEURODEGENERATION. A KEY QUESTION IS WHETHER APOE VARIANTS DERIVED FROM INNATE IMMUNITY PERIPHERAL CELLS (MACROPHAGES AND NEUTROPHILS) ALSO CONTROL IMMUNE RESPONSES DRIVEN BY MICROGLIA AND CONTRIBUTE TO DISEASE PROGRESSION. PRELIMINARY DATA SHOW THAT HUMAN APOE VARIANTS MEDIATE DIFFERENTIAL REGULATION OF PRO-INFLAMMATORY SIGNATURES IN NEUTROPHILS IN A SEX-DEPENDENT MANNER. IMPORTANTLY, RECENT STUDIES IDENTIFIED SIMILAR INFLAMMATORY SIGNATURES IN BLOOD NEUTROPHILS, WHICH WAS ASSOCIATED WITH COGNITIVE DECLINE IN ALZHEIMER'S DISEASE (AD) PATIENTS. THIS PROPOSAL AIMS TO INVESTIGATE THE ROLE OF APOE VARIANTS IN THE REGULATION OF NEUTROPHIL-MICROGLIA INTERACTIONS AS A THERAPEUTIC TARGET FOR AD. FOR MORE INFORMATION,

Schedule O (Form 990 or 990-EZ) 2020 Page **2** Name of the organization **Employer identification number** 23-7337229 BRIGHTFOCUS FOUNDATION VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021022S NAME OF ORGANIZATION OR GOVERNMENT: BRIGHAM AND WOMEN'S HOSPITAL, INC. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY LAURA COX, PHD, ENTITLED: (A2021024S) THE MICROBIOTA CELL-TYPE SPECIFIC REGULATION OF AD PATHOGENESIS. INVESTIGATOR'S SUMMARY: THE GUT MICROBIOTA CONTAINS TRILLIONS OF MICROBES THAT PROMOTE HEALTH BY PRODUCING VITAMINS, DEFENDING AGAINST BAD BACTERIA, OR TRAINING THE IMMUNE SYSTEM. THE GUT MICROBIOTA ALSO AFFECTS THE BRAIN BY SECRETING SUBSTANCES THAT CAN AFFECT THE IMMUNE SYSTEM OR MOOD. IN AGING, THE GUT MICROBIOTA BECOMES DESTABILIZED AND CAN CONTRIBUTE TO DISEASE. THIS PROJECT INVESTIGATES HOW AGE-RELATED MICROBIOTA CHANGES CONTRIBUTE TO ALZHEIMER'S DISEASE TO FIND WAYS TO CONTROL THE MICROBIOME AND PROMOTE HEALTHY BRAIN AGING. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021024S NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC JACKSONVILLE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY SANDRO DA MESQUITA, PHD, ENTITLED: (A2021025S) EFFECTS AND MECHANISMS OF APOE-INDUCED MENINGEAL LYMPHATIC REMODELING IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: THIS PROPOSAL TESTS THE HYPOTHESIS THAT EXPRESSION OF APOE4 IS AFFECTING BRAIN FUNCTION BY IMPAIRING THE MENINGEAL LYMPHATIC VASCULATURE AND, CONSEQUENTLY, DISTURBING BRAIN DRAINAGE AND INCREASING NEUROINFLAMMATION. TO ADDRESS THIS, MALE AND FEMALE MICE LACKING

INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE:

ENDOGENOUS APOE, OR EXPRESSING HUMAN APOE3 OR APOE4 INSTEAD, WILL BE

REGULATION OF MENINGEAL LYMPHATIC FUNCTION AT DIFFERENT AGES. FOR MORE

USED TO STUDY THE CELLULAR AND MOLECULAR MECHANISMS INVOLVED IN THE

Schedule O (Form 990 or 990-EZ) 2020 Page **2** Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 WWW.BRIGHTFOCUS.ORG/GRANT/A2021025S NAME OF ORGANIZATION OR GOVERNMENT: OHIO STATE UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY HONGJUN FU, PHD, ENTITLED: (A2021027S) CEREBRAL ORGANOIDS TO INVESTIGATE CELLULAR AND NEURONAL NETWORK VULNERABILITY IN ALZHEIMER'S DISEASE AND PROGRESSIVE SUPRANUCLEAR PALSY. INVESTIGATOR'S SUMMARY: ABNORMAL TAU PROTEINS SPREAD BETWEEN CELLS IN THE BRAIN IN BOTH ALZHEIMER'S DISEASE (AD) AND PROGRESSIVE SUPRANUCLEAR PALSY (PSP) CAUSING NEURODEGENERATION AND DYSFUNCTION. TAU BUILD UP HAS ALSO BEEN FOUND TO SPREAD IN ANIMAL MODELS, HOWEVER, THESE MODELS DON'T FULLY REPLICATE THE MOLECULAR, STRUCTURAL, AND GENETIC COMPLEXITY OF THESE DISEASES. WE PROPOSE TO USE CEREBRAL ORGANOIDS OR MINIATURE BRAINS GROWN FROM HUMAN INDUCED PLURIPOTENT STEM CELLS CONTAINING WILD-TYPE OR A TAU MUTATION AND TREAT THEM WITH DIFFERENT TAU SEEDS TO INVESTIGATE WHICH CELL TYPES ARE VULNERABLE IN AD AND PSP AND WHY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021027S SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: OHIO STATE UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY JIE GAO, PHD, ENTITLED: (A2021028S) TARGETING E3 LIGASE IDOL TO MITIGATE APOE4-MEDIATED TAU PATHOLOGY. INVESTIGATOR'S SUMMARY: APOLIPOPROTEIN E4 (APOE4) MARKEDLY EXACERBATES TAU PATHOLOGY AND TAU-MEDIATED NEURODEGENERATION IN ALZHEIMER'S DISEASE (AD). THEREFORE, TARGETING APOE4'S DETRIMENTAL EFFECTS IN TAU PATHOLOGY MIGHT SERVE AS A PROMISING STRATEGY FOR THE TREATMENT OF AD. IDOL IS A NOVEL, MAJOR REGULATOR OF BRAIN APOE

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RECEPTOR EXPRESSION, AND HAS A PROFOUND IMPACT ON APOE METABOLISM. THIS

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 STUDY AIMS TO UNDERSTAND THE MULTIFACTORIAL ROLE AND UNDERLYING MECHANISMS OF ACTION OF IDOL IN MITIGATING APOE4-MEDIATED TAU PATHOLOGY IN AD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021028S NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, SAN FRANCISCO. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY JASON GESTWICKI, PHD, ENTITLED: (A2021029S) DE-PHOSPHORYLATION OF TAU BY CHAPERONE COMPLEXES. INVESTIGATOR'S SUMMARY: TAU IS ABNORMALLY MODIFIED BY PHOSPHORYLATION AND PHOSPHORYLATION AT SPECIFIC SITES MAY PRECEDE DISEASE. WHILE THE ENZYMES THAT ADD PHOSPHORYLATION GROUPS ARE WELL KNOWN, THERE HAS BEEN SIGNIFICANTLY LESS ATTENTION PAID TO THE ENZYMES, TERMED PHOSPHATASES, THAT REMOVE THESE MODIFICATIONS. EXCITING PRELIMINARY RESULTS SHOWED THAT SPECIFIC 'HELPER' PROTEINS, OR CHAPERONES, CAN BIND TO TAU AND RECRUIT A SPECIFIC PHOSPHATASE, PP5. THIS STUDY WILL USE CUTTING EDGE TECHNIQUES TO LOOK AT PROTEIN STRUCTURES AND INTERACTIONS OF CHAPERONES WITH PP5 TO DETERMINE WHETHER THESE INTERACTIONS ARE IMPORTANT FOR REMOVING PHOSPHORYLATION GROUPS FROM TAU. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021029S NAME OF ORGANIZATION OR GOVERNMENT: COLUMBIA UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ULRICH HENGST, PHD, ENTITLED: (A2021030S) TRANSCRIPTIONAL DYSREGULATION OF THE ENDOCYTIC MACHINERY IN AD. INVESTIGATOR'S SUMMARY: ENDOSOMES FORM COMPLEXES WITH MULTIPLE OTHER PROTEINS, INCLUDING TRANSFERRINS (TF), TO PERFORM INTRACELLULAR SORTING OF SUBSTANCES THAT WILL ULTIMATELY BE DEGRADED OR RECYCLED. A

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NEW TF COMPLEX THAT IS ASSOCIATED WITH AMYLOID HAS BEEN IDENTIFIED AND

Name of the organization

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BRIGHTFOCUS FOUNDATION 23-7337229 IS PROPOSED TO TRANSCRIPTIONALLY REGULATE COMPONENTS OF THE RETROMER, A MULTIPROTEIN COMPLEX THAT MEDIATES THE SORTING AND TRANSPORT OF PROTEINS OUT OF EARLY ENDOSOMES. THIS PROJECT WILL DETERMINE THE SUFFICIENCY OF THE TF COMPLEX TO DEREGULATE THE EXPRESSION OF RETROMER COMPONENTS AND TO CAUSE ENDOSOMAL TRAFFICKING DEFECTS, AND INVESTIGATE WHETHER AD PATHOLOGY IS ALTERED IN MICE LACKING ONE OF THE TFS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021030S NAME OF ORGANIZATION OR GOVERNMENT: WASHINGTON UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY LAURA IBANEZ, PHD, ENTITLED: (A2021033S) PATHOPHYSIOLOGY OF SRNAS IN ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: THIS PROPOSAL WILL CHARACTERIZE THE DIFFERENT POPULATIONS OF SMALL RNAS IN BRAIN, PLASMA, AND CEREBROSPINAL FLUID OF INDIVIDUALS WITH ALZHEIMER'S DISEASE. THEIR BIOLOGICAL ROLE WILL BE INVESTIGATED BY: I) IDENTIFYING WHICH SMALL RNAS ARE DIFFERENT BETWEEN CASES AND CONTROLS IN EACH SPECIMEN (BRAIN, PLASMA AND CEREBROSPINAL FLUID); II) USE SMALL RNAS TO GENERATE TOOLS THAT ALLOW DISEASE PREDICTION, AND III) USE CELLULAR MODELS TO INVESTIGATE THE BIOLOGICAL CONSEQUENCES OF DYSREGULATING THE IDENTIFIED SMALL RNAS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021033S NAME OF ORGANIZATION OR GOVERNMENT: NORTHEAST OHIO MEDICAL UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ERIN REED-GEAGHAN, PHD, ENTITLED: (A2021036S) DEVELOPMENTAL DETERMINANTS OF SEXUALLY DIVERGENT NEUROINFLAMMATORY PROCESSES IN ALZHEIMER'S DISEASE.

INVESTIGATOR'S SUMMARY: IN ADDITION TO THE PATHOLOGICAL HALLMARKS OF

032212 11-20-20

Name of the organization **Employer identification number** 23-7337229 BRIGHTFOCUS FOUNDATION AMYLOID PLAQUES AND NEUROFIBRILLARY TANGLES, ALZHEIMER'S DISEASE (AD) IS CHARACTERIZED BY A ROBUST INFLAMMATORY RESPONSE IN THE BRAIN. WOMEN ARE DISPROPORTIONALLY AFFECTED IN AD, AND HAVE MORE INFLAMMATION, BUT THE REASONS FOR THESE SEX DIFFERENCES ARE UNCLEAR. THE STUDIES IN THIS PROPOSAL ARE DESIGNED TO IDENTIFY THE DEVELOPMENTAL PROCESSES THAT ESTABLISH AND PERPETUATE THE SEX DIFFERENCES IN THIS INFLAMMATORY RESPONSE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021036S NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC JACKSONVILLE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY WILFRIED ROSSOLL, PHD, ENTITLED: (A2021038S) IDENTIFYING NOVEL MODIFIERS OF TAU AGGREGATION AND PATHOLOGY USING PROXIMITY PROTEOMICS. INVESTIGATOR'S SUMMARY: THE GOAL OF THIS PROJECT IS TO IDENTIFY PROTEINS THAT ASSOCIATE WITH TAU PROTEIN AGGREGATES THAT MAY CONTRIBUTE TO TAU PATHOLOGY IN ALZHEIMER'S DISEASE (AD). A NOVEL METHOD TO PRECISELY MAP THE COMPOSITION OF INSOLUBLE PROTEIN AGGREGATES IN THE CONTEXT OF LIVING BRAIN TISSUE VIA PROXIMITY LABELING AND PROTEOMIC ANALYSIS WILL BE USED TO OVERCOME THE LIMITATIONS OF CLASSICAL AFFINITY-PURIFICATION METHODS. THIS APPROACH HAS BEEN FURTHER OPTIMIZED TO STUDY THE TRANSITION OF TAU FROM ITS PHYSIOLOGICAL TO ITS PATHOLOGICAL FORM IN CULTURED NEURONS AND BRAIN TISSUE MODELS OF AD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021038S NAME OF ORGANIZATION OR GOVERNMENT: BAYLOR COLLEGE OF MEDICINE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY MELANIE SAMUEL, PHD, ENTITLED: (A2021039S) PERICYTE NEURON CROSSTALK AND THE PROGRESSION OF ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: ALZHEIMER'S DISEASE (AD)

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 AFFECTS MILLIONS OF INDIVIDUALS, AND CO-MORBITIES SUCH AS VASCULAR DISEASE CAN SIGNIFICANTLY ACCELERATE COGNITIVE DECLINE. ALTERATIONS TO NEURON AND BLOOD VESSEL COMMUNICATION MAY DRIVE THESE OUTCOMES. THIS STUDY AIMS TO UNDERSTAND HOW AD DISRUPTS ENERGY HOMEOSTASIS AND NEUROVASCULAR COUPLING THROUGH SPECIALIZED VASCULAR STRUCTURES CALLED PERICYTE NANOTUBES. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021039S SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: MEDICAL UNIVERSITY OF SOUTH CAROLINA. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY TAKASHI SATO, PHD, ENTITLED: (A2021041S) NEURAL CIRCUIT MECHANISMS UNDERLYING SLEEP DISRUPTION IN ALZHEIMER'S DISEASE MODEL MICE. INVESTIGATOR'S SUMMARY: SLEEP DISTURBANCE IS BOTH AN EARLY SYMPTOM OF ALZHEIMER'S DISEASE (AD) IN THE PRODROMAL PHASE, AND ONE OF THE FACTORS THAT EXACERBATES AD. THIS PROJECT WILL STUDY THE INTERACTION BETWEEN SLEEP AND AD PROGRESSION USING ADVANCED MICROSCOPY AND OPTICAL STIMULATION. KEY COMPONENTS OF THE NEURAL CIRCUTS THAT CONTRIBUTE TO SLEEP WILL BE IDENTIFIED AND SPECIFIC COMPONENTS OF THE NEURAL CIRCUIT WILL BE MANIPULATED DURING SLEEP TO ENHANCE SLEEP-RELATED ACTIVITY IN THE BRAIN AND EXAMINE HOW THESE MANIPULATIONS AFFECT AD PROGRESSION AND COGNITION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021041S NAME OF ORGANIZATION OR GOVERNMENT: WASHINGTON UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ARISTEIDIS SOTIRAS, PHD, ENTITLED: (A2021042S) DETECTING AND CHARACTERIZING PRECLINICAL AD USING

AI AND STRUCTURAL MRI. INVESTIGATOR'S SUMMARY: THE PROPOSED PROJECT

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 WILL DEVELOP ARTIFICIAL INTELLIGENCE (AI) TOOLS BASED ON DEEP LEARNING (DL) THAT USE WIDELY AVAILABLE IMAGING, COGNITIVE AND CLINICAL DATA TO IDENTIFY INDIVIDUALS THAT SHOW EARLY SIGNS OF ALZHEIMER'S PATHOLOGY AND PREDICT THEIR FUTURE COGNITIVE PERFORMANCE. SUCH TOOLS ARE CRUCIAL FOR IMPROVING CLINICAL CARE BY ENABLING EARLY DIAGNOSIS AND INTERVENTION. ADDITIONALLY, THEY CAN REDUCE CLINICAL TRIAL COSTS BY ENABLING TARGETED RECRUITMENT OF HOMOGENEOUS GROUPS OF INDIVIDUALS AT INCREASED RISK OF COGNITIVE DECLINE AND PROGRESSION TO ALZHEIMER'S DISEASE DEMENTIA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021042S NAME OF ORGANIZATION OR GOVERNMENT: CASE WESTERN RESERVE UNIVERSITY -SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY MASASHI TABUCHI, PHD, ENTITLED: (A2021043S) CLOCK-DRIVEN SLEEP FRAGMENTATIONS IN TAUOPATHY. INVESTIGATOR'S SUMMARY: THE OVERALL OBJECTIVE OF THIS PROPOSAL IS TO ELUCIDATE THE ROLE THAT INACTIVATION STATES OF VOLTAGE-GATED SODIUM CHANNELS PLAY IN THE REGULATION OF CIRCADIAN RHYTHMS AND SLEEP IN ALZHEIMER'S DISEASE (AD) AND RELATED TAUOPATHIES. THIS PROPOSAL WILL TEST THROUGH COMPARATIVE, BOTH IN VIVO (DROSOPHILA) AND IN VITRO (IPS CELLS), ASSESSMENTS OUR CENTRAL HYPOTHESIS THAT MANIPULATIONS OF INACTIVATION STATES OF VOLTAGE-GATED SODIUM CHANNELS IN AD LEAD TO MOLECULAR AND CELLULAR ALTERATIONS RESULTING IN DYSFUNCTIONAL CIRCADIAN RHYTHMS, SLEEP ALTERATIONS, AND DISEASE PROGRESSION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021043S

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BY NA ZHAO, PHD,

PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH

NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC JACKSONVILLE. (H)

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 ENTITLED: (A2021046S) APOE GENOTYPE-DEPENDENT EFFECTS OF LIFE-STYLE INTERVENTION IN HEALTHY AGING AND ALZHEIMER'S DISEASE. INVESTIGATOR'S SUMMARY: AGING AND THE APOLIPOPROTEIN E4 (APOE4) GENE ARE THE GREATEST RISK FACTORS FOR LATE-ONSET ALZHEIMER'S DISEASE (AD). WHILE MANY THERAPIES HAVE FAILED IN CLINICAL TRIALS, RESEARCH SHOWS THAT LIFE-STYLE INTERVENTIONS CAN DELAY DISEASE ONSET. FOOD RESTRICTION HAS BEEN RECOGNIZED AS ONE OF THE MOST EFFECTIVE WAYS TO EXTEND HEALTHSPAN, HOWEVER, IT IS UNCLEAR WHETHER GENETICALLY SUSCEPTIBLE INDIVIDUALS SUCH AS APOE4 CARRIERS CAN STILL BENEFIT FROM PREVENTIVE LIFE-STYLE INTERVENTIONS. AS SUCH, THIS PROPOSAL PLANS TO INVESTIGATE HOW DIET CONTROL OR EXERCISE AFFECTS BRAIN HEALTH USING ANIMAL MODELS WITH AGING OR AD, AND WITH OR WITHOUT THE APOE4 GENE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2021046S NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC, JACKSONVILLE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH ENTITLED: (CA2017563) MOLECULAR NEURODEGENERATION JOURNAL. WE PARTNER WITH BIOMED CENTRAL'S OPEN ACCESS JOURNAL, MOLECULAR NEURODEGENERATION(MN), WHICH IS THE OFFICIAL JOURNAL OF BRIGHTFOCUS. THE OPEN ACCESS PUBLISHING MODEL PROVIDES FREE ARTICLES TO THE GENERAL PUBLIC, AS WELL AS SCIENTISTS, CLINICIANS, AND OTHER HEALTHCARE PRACTITIONERS. MN PUBLISHES PEER-REVIEWED, ORIGINAL SCIENTIFIC RESEARCH ON THE CAUSES OF NEURODEGENERATIVE DISEASES, SUCH AS ALZHEIMER'S OR PARKINSON' AND ON THE PRE-CLINICAL TESTING OF POTENTIAL THERAPIES FOR THESE DEVASTATING DISEASES. MN HAS AN IMPACT SCORE OF 6.43 (WITH A 5-YEAR IMPACT FACTOR OF 7.08, REFLECTING THE SUSTAINED IMPACT OF OUR JOURNAL), AND REMAINS THE HIGHEST RANKED OPEN ACCESS NEUROSCIENCE JOURNAL IN THE JOURNAL CITATION REPORTS (JCR).

Name of the organization **Employer identification number** 23-7337229 BRIGHTFOCUS FOUNDATION NAME OF ORGANIZATION OR GOVERNMENT: MAYO CLINIC, JACKSONVILLE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH ENTITLED: (CA2021010) MOLECULAR NEURODEGENERATION JOURNAL. THE AIM OF MOLECULAR NEURODEGENERATION (MN) JOURNAL (HTTPS://MOLECULARNEURODEGENERATION.BIOMEDCENTRAL.COM/) IS TO SERVE THE SCIENTIFIC COMMUNITY BY PUBLISHING HIGH-IMPACT, HIGH-QUALITY, AND FRONT-LINE RESEARCH DISCOVERIES IN DIVERSE AREAS OF NEURODEGENERATIVE DISEASES INCLUDING ALZHEIMER'S DISEASE AND EYE-RELATED DEGENERATIVE CONDITIONS. MN IS THE OFFICIAL JOURNAL OF THE BRIGHTFOCUS FOUNDATION. THE OPEN ACCESS PUBLISHING MODEL PROVIDES FREE ARTICLES TO THE GENERAL PUBLIC, AS WELL AS SCIENTISTS, CLINICIANS, AND OTHER HEALTHCARE PRACTITIONERS. THE JOURNAL HAS SEEN FURTHER GROWTH IN RECENT YEARS IN PARTICULAR IN THE AREA OF SCIENTIFIC IMPACT AND REPUTATION. SOME OF THESE ARE REFLECTED IN THE FOLLOWING METRICS: 1) THE USAGE OF THE JOURNAL: 568,061 DOWNLOADS IN 2019 AND 770,533 DOWNLOAD IN 2020; 2) THE CITATIONS TRACKED BY WEB OF SCIENCE: 4290 IN 2018, 5217 IN 2019, AND 6488 IN 2020.; 3) THE IMPACT FACTOR: 8.274 IN 2018, AND 9.599 IN 2019; 4) THE RANKING BY JCR: MOLECULAR NEURODEGENERATION HAS BEEN RANKED AS THE NO. 1 OPEN-ACCESS JOURNAL IN THE NEUROSCIENCE CATEGORY FOR SEVEN YEARS IN A ROW (2013 PRESENT), AND RANKED NO. 15 AMONG ALL 272 NEUROSCIENCE JOURNALS (WITHIN THE TOP 5.5%). NAME OF ORGANIZATION OR GOVERNMENT: INTERNATIONAL SOCIETY FOR MOLECULAR NEURODEGENERATION. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH ENTITLED: (CA2021011) MOLECULAR NEURODEGENERATION JOURNAL. THIS AWARD IS FOR THE CREATION, AND GROWTH OF, THE "INTERNATIONAL SOCIETY FOR

MOLECULAR NEURODEGENERATION (ISMND) AND SUPPORT OF ITS BI-ANNUAL

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 MEETINGS AND EDUCATIONAL AND SCIENTIFIC PURPOSES. IN ACCORDANCE WITH SECTION 501(C)(3) OF THE INTERNAL REVENUE CODE AND THE PROVISIONS OF THE FLORIDA NOT FOR PROFIT CORPORATION ACT. THE INTERNATIONAL SOCIETY FOR MOLECULAR NEURODEGENERATION (ISMND) SHALL BE ORGANIZED AND OPERATED PRIMARILY AND EXCLUSIVELY FOR EDUCATIONAL AND SCIENTIFIC PURPOSES. THE INTERNATIONAL SOCIETY FOR MOLECULAR NEURODEGENERATION'S MISSION IS TO SERVE AS AN ACCELERATOR FOR THE CONTINUOUS IMPROVEMENT OF BRAIN AND EYE HEALTH AND WELL-BEING BY CREATING A MULTIDISCIPLINARY GLOBAL PLATFORM FOR SCIENTISTS, PHYSICIANS, AND THE PUBLIC FROM DIFFERENT FACETS AND SCIENTIFIC DISCIPLINES TO MORE READILY CONNECT, SHARE AND COMMUNICATE SCIENTIFIC DISCOVERIES, AND DEVELOP CURES FOR NEURODEGENERATIVE DISEASES, IN THE HOPES OF A WORLD FREE OF BRAIN AND EYE DISEASES. SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: TUFTS UNIVERSITY - BOSTON. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY WONHEE KIM, PHD, ENTITLED: (A2019021F) IMPACT OF ELEVATED APP ON BACE1 SUBSTRATES PROCESSING. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2019021F NAME OF ORGANIZATION OR GOVERNMENT: MASSACHUSETTS GENERAL HOSPITAL. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY MASATO MAESAKO, PHD, ENTITLED: (A2019056F) VISUALIZATION OF AMYLOID-BETA PRODUCTION. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2019056F

NAME OF ORGANIZATION OR GOVERNMENT: EMORY UNIVERSITY. (H) PURPOSE OF

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Name of the organization **Employer identification number** 23-7337229 BRIGHTFOCUS FOUNDATION GRANT: ALZHEIMER'S DISEASE RESEARCH BY THOMAS KUKAR, PHD, ENTITLED: (A2019355S) UNDERSTANDING LYSOSOME DYSFUNCTION IN ALZHEIMER'S DISEASE. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/A2019355S NAME OF ORGANIZATION OR GOVERNMENT: MASSACHUSETTS GENERAL HOSPITAL. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY JILL GOLDSTEIN, PHD, ENTITLED: (CA2018607) DEVELOPMENT OF CLINICAL ALGORITHM TO IDENTIFY RISK FOR ALZHEIMER'S DISEASE IN EARLY MIDLIFE. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2018607 NAME OF ORGANIZATION OR GOVERNMENT: JOHNS HOPKINS UNIVERSITY. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY QUINCY SAMUS, PHD, ENTITLED: (CA2021001) DISSEMINATION OF MIND AT HOME DEMENTIA CARE MODEL TO DRIVE HEALTH CARE TRANSFORMATION AND GREATER VALUE. INVESTIGATOR'S SUMMARY: INFORMED BY DECADES OF DEMENTIA CARE CLINICAL EXPERTISE, BEST PRACTICE RECOMMENDATIONS, AND CLINICAL STUDIES, MIND AT HOME IS AN EFFECTIVE, COMPREHENSIVE, HOMEBASED DEMENTIA CARE COORDINATION MODEL THAT SYSTEMATICALLY ASSESSES AND ADDRESSES A BROAD RANGE OF DEMENTIARELATED CARE NEEDS THAT PLACE ELDERS AT RISK FOR HEALTH DISPARITIES, HOSPITALIZATIONS, UNWANTED LONG TERM CARE PLACEMENT, POOR QUALITY OF LIFE AND FAMILY CAREGIVERS AT RISK FOR BURNOUT AND HEALTH IMPACTS. YET TRANSLATION INTO PRACTICE HAS BEEN SLOW PRIMARILY DUE LACK OF DATA ON ITS POTENTIAL FOR RETURN ON INVESTMENT AND ITS VALUE PROPOSITION TO HEALTH SYSTEMS, HEALTH PLANS, AND PROVIDERS, AS WELL LACK OF DATA ON HOW TO EFFECTIVELY REFINE THE MODEL TO INTEGRATE INTO EXISTING HEALTH CARE DELIVERY ENVIRONMENTS. THIS GRANT SUPPORTS A

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 PARTNERSHIP WITH UNIVERSITY OF MARYLAND BALTIMORE COUNTY, JADE GONG & ASSOCIATES LLC, AND JOHNS HOPKINS HOME CARE GROUP, WITH THE SUPPORT OF MARYLAND PRIMARY CARE PROGRAM, MARYLAND MEDICAID, AND JOHNS HOPKINS ALLIANCE FOR PATIENTS TO STRATEGICALLY ADVANCE THE DISSEMINATION AND TRANSLATION OF JOHN HOPKINS UNIVERSITY'S EVIDENCEBASED MIND AT HOME MODEL, IN THE CONTEXT OF MARYLAND'S NEW PRIMARY CARE PROGRAM (MDPCP) AS A TRANSFORMATIVE TOOL TO ACHIEVE GREATER CARE COORDINATION AND VALUE FOR A VULNERABLE COGNITIVELY IMPAIRED POPULATION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2021001 NAME OF ORGANIZATION OR GOVERNMENT: MEDICAL TECHNOLOGY ENTERPRISE CONSORTIUM. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH ENTITLED: (CA2021014) SUPPORT FOR PROPOSAL MTEC-20-16-MTBI-002, ADVANCING THE PROMISING CEREBROPROTECTANT AST-004 TO HUMAN TRAUMATIC BRAIN INJURY CLINICAL TRIALS. INVESTIGATOR'S SUMMARY: SUPPORT FOR PROPOSAL MTEC-20-16-MTBI-002, ADVANCING THE PROMISING CEREBROPROTECTANT AST-004 TO HUMAN TRAUMATIC BRAIN INJURY CLINICAL TRIALS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2021014 NAME OF ORGANIZATION OR GOVERNMENT: MEDICAL TECHNOLOGY ENTERPRISE CONSORTIUM. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH ENTITLED: (CA2021015) SUPPORT FOR PROPOSAL MTEC-20-16-MTBI-005, MITOCHONDRIAL UNCOUPLING PRODRUG TO TREAT REPEATED MILD TRAUMATIC BRAIN INJURY INVESTIGATOR'S SUMMARY: SUPPORT FOR PROPOSAL MTEC-20-16-MTBI-005, MITOCHONDRIAL UNCOUPLING PRODRUG TO TREAT REPEATED MILD TRAUMATIC BRAIN INJURY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2021015

Name of the organization **Employer** identification number 23-7337229 BRIGHTFOCUS FOUNDATION SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: FOUNDATION FOR THE NATIONAL INSTITUTES OF HEALTH. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ENTITLED: (CA2021012) PRE-COMPETITIVE ANALYTICAL VALIDATION OF SV2A PET IMAGING AS A BIOMARKER OF SYNAPTIC DENSITY INVESTIGATOR'S SUMMARY: THE SV2A PET PROJECT AIMS TO DEMONSTRATE THE RELIABILITY OF SV2A PET IMAGING AS A BIOMARKER OF SYNAPTIC DENSITY IN ALZHEIMER'S DISEASE AND ACCELERATE THE APPLICATION OF SV2A PET AS A TREATMENT RESPONSE MARKER IN DISEASE-MODIFYING CLINICAL TRIALS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2021012 NAME OF ORGANIZATION OR GOVERNMENT: BOSTON UNIVERSITY SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY BENJAMIN WOLOZIN, MD, PHD ENTITLED: (CA2020002) DEVELOPMENT OF SYNTHETIC GENE FEEDBACK CIRCUITS TO PREVENT TAU AGGREGATION. INVESTIGATOR'S SUMMARY: THIS PROPOSAL USES A RADICALLY NOVEL APPROACH TERMED "SYNTHETIC BIOLOGY", WHICH USES CONCEPTS FROM ELECTRICAL ENGINEERING TO DESIGN NEW TYPES OF GENETIC THERAPY FOR ALZHEIMER'S DISEASE (AD). WE WILL CREATE NEW SYNTHETIC GENE CIRCUITS THAT CAN DETECT AND THEN REMOVE HARMFUL TAU PATHOLOGY AS IT APPEARS IN THE BRAINS OF PATIENTS WITH AD. THESE NEW THERAPIES WILL SELECTIVELY TARGET ONLY THOSE NERVE CELLS THAT ACTUALLY HAVE PATHOLOGY, INCREASING THE EFFECTIVENESS WHILE REDUCING THE POTENTIAL FOR UNWANTED SIDE EFFECTS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE:

WWW.BRIGHTFOCUS.ORG/GRANT/CA2020002

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF DENVER. (H) PURPOSE OF GRANT: ALZHEIMER'S DISEASE RESEARCH BY ANN CHARLOTTE GRANHOLM-BENTLEY, PHD, ENTITLED: (CA2018010) INTERNATIONAL BRAIN BANK FOR DOWN SYNDROME-RELATED ALZHEIMER'S DISEASE INVESTIGATOR'S SUMMARY: THE FOCUS OF THIS SPECIAL PROJECT IS TO DEVELOP A STRONG COLLABORATE NETWORK BETWEEN SIX DIFFERENT RESEARCH GROUPS FOCUSED ON PROVIDING MUCH-NEEDED INFORMATION ABOUT THE DOWN SYNDROME POPULATION, OF WHICH AS MANY AS 80 PERCENT HAVE ALZHEIMER'S PATHOLOGY BY THE TIME THEY ARE IN THEIR 50S AND 60S. ALTHOUGH THERE ARE MANY CENTERS AND RESEARCHERS THAT FOCUS ON ALZHEIMER'S IN THE GENERAL POPULATION, FEW OF THEM FOCUS ON PEOPLE WITH DOWN SYNDROME. THE INFORMATION GENERATED BY OUR PROJECT WILL BE OF GREAT HELP TO THOSE WITH DOWN SYNDROME AND THOSE WITH ALZHEIMER'S DISEASE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CA2018010 NAME OF ORGANIZATION OR GOVERNMENT: THE MILKEN INSTITUTE. (H) PURPOSE OF GRANT: PROJECT SUPPORT FOR STUDY ON NEUROTECHNOLOGY THAT INCLUDES IDENTIFYING AREAS FOR FUTURE INVESTMENT IN RESEARCH. NAME OF ORGANIZATION OR GOVERNMENT: NEW YORK UNIVERSITY SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY JI WON BANG, PHD, ENTITLED: (G2021001F) ALTERATIONS OF THE SLEEP-REGULATING SYSTEMS IN GLAUCOMA. INVESTIGATOR'S SUMMARY: THIS STUDY WILL USE MULTIMODAL BRAIN NEUROIMAGING, CLINICAL OPHTHALMIC ASSESSMENTS, AND SLEEP QUALITY ASSESSMENTS IN EARLY-STAGE AND ADVANCED-STAGE GLAUCOMA PATIENTS, AND HEALTHY SUBJECTS. THE OUTCOMES SHOULD PROVIDE A MECHANISTIC ACCOUNT OF THE HIGH INCIDENCE OF SLEEP DISORDERS IN GLAUCOMA AND COULD LEAD TO THERAPEUTIC ADVANCEMENTS BENEFITTING

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 MILLIONS OF PEOPLE. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021001F NAME OF ORGANIZATION OR GOVERNMENT: BOSTON CHILDREN'S HOSPITAL. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY NICHOLAS HANOVICE, PHD, ENTITLED: (G2021002F) AUGMENTING OPTIC NERVE REGENERATION USING CELL-INTRINSIC AND EXTRINSIC MANIPULATIONS. INVESTIGATOR'S SUMMARY: THIS PROPOSAL WILL IDENTIFY THE INFLAMMATORY CELL TYPE THAT PROMOTES RGC AXON REGENERATION, DETERMINING WHICH RGC SUBTYPES EXTEND AXONS INTO THE INJURY SITE, AND TEST WHETHER EXPANDING INFLAMMATION FURTHER INTO THE OPTIC NERVE WILL ENHANCE LONG-DISTANCE AXON REGENERATION. RESULTS FROM THIS PROPOSAL WILL PROVIDE MECHANISTIC INSIGHT INTO NEURO-IMMUNE INTERACTIONS THAT STIMULATE RGC AXON REGENERATION, AND POTENTIALLY OPEN NEW AVENUES TO RESTORE SIGHT IN GLAUCOMA PATIENTS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021002F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF PITTSBURGH. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY YI HUA, PHD, ENTITLED: (G2021003F) HEMODYNAMICS AND BIOMECHANICS OF THE MONKEY LAMINA CRIBROSA. INVESTIGATOR'S SUMMARY: THIS STUDY WILL TEST IF ELEVATED EYE PRESSURE DEFORMS THE MICROVESSELS THAT SUPPLY BLOOD, NUTRIENTS, AND OXYGEN TO THE LAMINA REGION AT THE BACK OF THE EYE TO SUPPORT THE NERVE CELLS. THE LONG-TERM GOAL IS TO UNDERSTAND AXON DEATH MECHANISMS IN GLAUCOMA AND HELP DEVELOP NOVEL DIAGNOSTIC AND THERAPEUTIC AGENTS FOR CLINICAL GLAUCOMA TREATMENT. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021003F

Name of the organization

**Employer** identification number

BRIGHTFOCUS FOUNDATION 23-7337229 SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: GEORGIA TECH RESEARCH CORPORATION. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY BABAK SAFA, PHD, ENTITLED: (G2021005F) INVESTIGATING THE OPTIC NERVE HEAD REMODELING IN GLAUCOMATOUS OPTIC NEUROPATHY. INVESTIGATOR'S SUMMARY: IN THIS PROJECT RESEARCHER WILL: (1) PROVIDE THE MOST ACCURATE CHARACTERIZATION OF THE MECHANICAL PROPERTIES AND MECHANOBIOLOGY OF THE OPTIC NERVE HEAD, THE PRIMARY SITE OF DAMAGE IN GLAUCOMATOUS OPTIC NEUROPATHY, AND (2) WILL DEVELOP A PHYSIOLOGICALLY-APPROPRIATE EX VIVO 3D CULTURE MODEL TO STUDY THE MECHANOBIOLOGIC RESPONSE OF ONH CELLS, THOUGHT TO DRIVE CHARACTERISTIC CHANGES IN GLAUCOMA. THIS SYSTEM WILL EVENTUALLY FORM THE BASIS OF A HIGH-THROUGHPUT DRUG DISCOVERY SYSTEM, ACCELERATING THE DEVELOPMENT OF FUTURE TREATMENTS FOR GLAUCOMA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021005F NAME OF ORGANIZATION OR GOVERNMENT: BOSTON CHILDREN'S HOSPITAL. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY KIMBERLY WONG, PHD, ENTITLED: (G2021006F) TRANSCRIPTIONAL MECHANISMS THAT REGULATE GANGLION CELL SURVIVAL AND AXON REGENERATION. INVESTIGATOR'S SUMMARY: THE GOAL OF OUR RESEARCH IS TO INVESTIGATE HOW CELL DEATH AND AXON REGENERATION ARE REGULATED BY PROTEINS DUAL LEUCINE ZIPPER KINASE (DLK) AND LEUCINE ZIPPER KINASE (LZK) THAT ARE CRUCIAL FOR RGC DEATH. THIS WORK CAN LEAD TO THE DEVELOPMENT OF NEW THERAPIES TO HALT OR EVEN REVERSE RGC DEATH AND VISION LOSS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021006F

NAME OF ORGANIZATION OR GOVERNMENT: COLUMBIA UNIVERSITY. (H) PURPOSE OF

GRANT: NATIONAL GLAUCOMA RESEARCH BY REVATHI BALASUBRAMANIAN, PHD,

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Schedule O (Form 990 or 990-EZ) 2020

Name of the organization **Employer identification number** 23-7337229 BRIGHTFOCUS FOUNDATION ENTITLED: (G2021007S) MECHANISMS OF ANGLE DEVELOPMENT AND GLAUCOMA. INVESTIGATOR'S SUMMARY: IN SEVERAL CASES OF GLAUCOMA AND ESPECIALLY EARLY-ONSET GLAUCOMA, DRAINAGE STRUCTURES THAT REGULATE THE EYE PRESSURE ARE AFFECTED. TO ADDRESS THIS, WE NEED TO UNDERSTAND THE GENETICS OF DRAINAGE STRUCTURE DEVELOPMENT. WE HAVE DEVELOPED A MOUSE MODEL OF EARLY-ONSET GLAUCOMA. USING A NEWLY DEVELOPED MOUSE MODEL OF EARLY-ONSET AND MODERN IMAGING METHODS, RESEARCHERS WILL DETERMINE HOW DRAINAGE STRUCTURES DEVELOP AND THE MECHANISM THROUGH WHICH ABNORMALITIES IN DRAINAGE TISSUE GLAUCOMA. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021007S NAME OF ORGANIZATION OR GOVERNMENT: DUKE UNIVERSITY SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY ROMAIN CARTONI, PHD, ENTITLED: (G2021008S) DECIPHERING THE LOCAL EFFECT OF GLAUCOMA RISK FACTORS ON AXONAL MITOPROTEOME. INVESTIGATOR'S SUMMARY: MITOCHONDRIA, AN INTRACELLULAR ORGANELLE RESPONSIBLE FOR KEY CELLULAR PROCESSES SUCH AS ENERGY PRODUCTION AND PROGRAMMED CELL DEATH REGULATION, HAVE BEEN SHOWN TO BE IMPAIRED IN RETINAL GANGLION CELLS (RGCS) AFFECTED BY GLAUCOMA. THIS STUDY WILL UNCOVER REGULATORS OF MITOCHONDRIAL FUNCTIONS THAT ARE AFFECTED IN GLAUCOMATOUS CONDITIONS WHICH MAY CONSTITUTE NOVEL THERAPEUTIC TARGETS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021008S NAME OF ORGANIZATION OR GOVERNMENT: JOHNS HOPKINS UNIVERSITY. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY THAO NGUYEN, PHD, ENTITLED: (G2021012S) IN VIVO CHARACTERIZATION OF THE MECHANICAL PROPERTIES OF THE HUMAN OPTIC NERVE HEAD. INVESTIGATOR'S SUMMARY: THE PROPOSED RESEARCH AIMS TO MEASURE THE DEFORMATION OF THE LAMINA

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 CRIBROSA, A CONNECTIVE TISSUE STRUCTURE IN THE OPTIC NERVE HEAD THAT SUPPORTS THE OPTIC NERVE AXONS, IN PATIENTS CAUSED BY A SHORT-TERM CHANGE IN THE EYE PRESSURE BY LASER SUTURELYSIS AND WEARING TIGHT-FITTING SWIM GOGGLES. THE IMPLICATIONS OF THIS WORK CAN BE IMPORTANT TO UNDERSTANDING THE SUSCEPTIBILITY OF INDIVIDUALS TO GLAUCOMA AND TO DEVELOPING NEW DIAGNOSTICS TECHNIOUES AND NEW THERAPEUTIC STRATEGIES. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021012S NAME OF ORGANIZATION OR GOVERNMENT: JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY IAN PITHA, PHD, ENTITLED: (G2021013S) MAPPING SCLERAL FIBROBLASTS AND THEIR SIGNIFICANCE IN GLAUCOMA. INVESTIGATOR'S SUMMARY: DAMAGE TO THE NERVE CELLS OCCURS BECAUSE PRESSURE WITHIN THE EYE PINCHES THE NERVE AT THE OPTIC NERVE HEAD. INTRAOCULAR PRESSURE REDUCTION ALLEVIATES THIS PINCHING AND ALLOWS THE CELL TO FUNCTION PROPERLY. THUS, THIS PROPOSAL AIMS TO UNDERSTAND BETTER HOW THE WALL OF THE EYE REMODELS IN GLAUCOMA AND TEST AN APPROACH TO PREVENT PINCHING OF THE NERVE CELLS BY ALTERING THIS PROCESS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021013S NAME OF ORGANIZATION OR GOVERNMENT: THE MEDICAL COLLEGE OF WISCONSIN, INC. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY MATTHEW VELDMAN, PHD, ENTITLED: (G2021015S) NEW NEUROPROTECTIVE GENES AGAINST AXONAL DAMAGE AND GLAUCOMA. INVESTIGATOR'S SUMMARY: THE CURRENT PROJECT

CANDIDATE GENES IDENTIFIED IN ZEBRAFISH. THE GOAL OF THIS STUDY IS TO

IN MAMMALIAN CELLS TO TEST THE NEUROPROTECTIVE ABILITY OF FOUR

USES LOSS OF FUNCTION STUDIES IN ZEBRAFISH AND GAIN OF FUNCTION STUDIES

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Name of the organization

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BRIGHTFOCUS FOUNDATION 23-7337229 UNDERSTAND THE BASIC BIOLOGY OF INJURY RESILIENCE AND OPTIC NERVE REGENERATION IN THE ZEBRAFISH AND APPLY THAT KNOWLEDGE TO MAMMALIAN MODELS OF GLAUCOMA WITH THE LONG-TERM HOPES OF IDENTIFYING NEW AVENUES FOR THERAPEUTIC DEVELOPMENT IN PATIENTS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021015S SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, DAVIS. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY ROBERT ZAWADZKI, PHD, ENTITLED: (G2021017S) VALIDATION OF NOVEL OCT BASED IMAGING TOOLS FOR NONINVASIVE LONGITUDINAL MONITORING OF THE RETINAL GANGLION CELLS IN ANIMAL MODELS OF GLAUCOMA. INVESTIGATOR'S SUMMARY: NOVEL TREATMENTS FOCUSED ON RESTORING VISION IN GLAUCOMA, USING GENE OR STEM CELL THERAPIES, WOULD BENEFIT FROM THE DEVELOPMENT OF CELLULAR RESOLUTION IN VIVO IMAGING TOOLS, THAT COULD OFFER SENSITIVITY AND SPECIFICITY BEYOND CURRENT CLINICAL TESTS. TO ACHIEVE THAT WE PROPOSE TO DEVELOP AND VALIDATE NOVEL STRUCTURAL AND FUNCTIONAL EXTENSION OF OPTICAL COHERENCE TOMOGRAPHY (OCT), SO-CALLED TEMPORAL SPECKLE ANALYSIS OCT (TSA-OCT), FOR BASIC SCIENCE RESEARCH. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2021017S NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF WISCONSIN-MADISON. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY ROBERT W. NICKELLS, PHD, ENTITLED: (G2018166) THE PATHOLOGICAL CONTRIBUTION OF CELL ADHESION DISRUPTION IN RGC DEATH. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2018166

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF ILLINOIS AT CHICAGO. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY JOHN HETLING, PHD, ENTITLED: (G2019356) DIAGNOSING GLAUCOMA IN THE PERIPHERAL RETINA. EMERGENCY RELIEF SUPPLEMENT DUE TO COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/G2019356 NAME OF ORGANIZATION OR GOVERNMENT: GEORGIA INSTITUTE OF TECHNOLOGY. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY C. ROSS ETHIER, PHD, ENTITLED: (CG2020001) SELECTIVE TARGETING OF SCHLEMM'S CANAL INNER WALL FOR NEXT-GENERATION GLAUCOMA DRUGS: SUBPART A INVESTIGATOR'S SUMMARY: ALL TREATMENTS FOR GLAUCOMA SEEK TO LOWER INTRAOCULAR PRESSURE (IOP), YET EXISTING APPROACHES ARE INSUFFICIENT. WE NOW UNDERSTAND THAT ENDOTHELIAL CELL OF THE INNER WALL OF SCHLEMM'S CANAL (SC) PLAY A KEY ROLE IN HOMEOSTATIC CONTROL MECHANISMS THAT MAINTAIN IOP WITHIN A TARGET RANGE. HOWEVER, TOOLS FOR DIRECTLY ASSESSING SC INNER WALL ENDOTHELIAL FUNCTION ARE LACKING, AS ARE MOLECULAR APPROACHES FOR DIRECTLY TARGETING AND INTERROGATING THESE CELLS. THE LONG-TERM GOAL OF THIS INTER-DEPENDENT, MULTIPLE PRINCIPAL INVESTIGATOR AND GRANTEE INSTITUTION-ASSOCIATED PROJECT IS TO DEVELOP NOVEL THERAPIES THAT DIRECTLY TARGET SC CELLS TO IMPROVE IOP CONTROL. THESE TARGETED THERAPIES WILL BE HIGHLY EFFECTIVE DUE THEIR SPECIFICITY, AND WILL THUS GREATLY BENEFIT GLAUCOMA PATIENTS. TO ACCOMPLISH THIS GOAL, WE HAVE ASSEMBLED AN OUTSTANDING TEAM THAT BRINGS TOGETHER ALL NECESSARY EXPERTISE TO INTERVENE IN THIS COMPLEX SYSTEM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CG2020001 NAME OF ORGANIZATION OR GOVERNMENT: DUKE UNIVERSITY. (H) PURPOSE OF

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GRANT: NATIONAL GLAUCOMA RESEARCH BY W. DANIEL STAMER, PHD, ENTITLED:

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Name of the organization

**Employer identification number** 

BRIGHTFOCUS FOUNDATION 23-7337229 (CG2020002) SELECTIVE TARGETING OF SCHLEMM'S CANAL INNER WALL FOR NEXT-GENERATION GLAUCOMA DRUGS: SUBPART B INVESTIGATOR'S SUMMARY: FOR THE PROJECT, WE WILL SCREEN CANDIDATE ADENO ASSOCIATED VIRUSES AND ENGINEERED PROMOTERS CLONED INTO LENTIVIRUSES OBTAINED FROM COLLABORATORS IN HUMAN SCHLEMM'S CANAL CELLS IN VITRO AND ANTERIOR SEGMENTS EX VIVO FOR SELECTIVE TROPISM TO/ACTIVITY IN TRABECULAR MESHWORK VERSUS SCHLEMM'S CANAL. WE WILL UTILIZE RECENTLY VALIDATED VIRUS TECHNOLOGY (ENOS PROMOTERS DRIVING XFP OR SEAP REPORTER PROTEINS) TO TRANSDUCE SCHLEMM'S CANAL IN HUMAN ANTERIOR SEGMENTS AND MONITOR SHEAR STRESS LEVELS AND LOCATION THROUGHOUT SCHLEMM'S CANAL. WE WILL PROVIDE A STEADY SUPPLY OF SCHLEMM'S CANAL CELLS FOR DEVELOPMENT AND TESTING OF DRUG SCREENING PLATFORMS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CG2020002 NAME OF ORGANIZATION OR GOVERNMENT: COLUMBIA UNIVERSITY. (H) PURPOSE OF GRANT: NATIONAL GLAUCOMA RESEARCH BY SIMON JOHN, PHD, ENTITLED: (CG2020004) SELECTIVE TARGETING OF SCHLEMM'S CANAL INNER WALL FOR NEXT-GENERATION GLAUCOMA DRUGS: SUBPART D INVESTIGATOR'S SUMMARY: THE PROJECT AIMS TO DEVELOP AND TEST RESOURCES FOR SCHLEMM'S CANAL SPECIFIC TARGETING AND EXPRESSION OF GENES FOR GENE THERAPY. SUCCESSFUL DEVELOPMENT OF THIS TARGETED THERAPY WILL HELP CONTROL EYE PRESSURE MORE EFFECTIVELY AND PROVIDE BETTER TREATMENT OPTIONS FOR GLAUCOMA PATIENTS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/CG2020004 NAME OF ORGANIZATION OR GOVERNMENT: COLUMBIA UNIVERSITY. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY YA-JU CHANG, PHD, ENTITLED:

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(M2021002F) CRISPR GENOME ENGINEERING IN AMD RISK ALLELES.

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 INVESTIGATOR'S SUMMARY: IN THE STUDY, THE RESEARCHER PLANS TO ADDRESS THE KNOWLEDGE GAP IN OUR UNDERSTANDING OF THE CAUSE OF AGE-RELATED MACULAR DEGENERATION (AMD) BY DEVELOPING A STEM CELL MODEL CAPABLE OF MIMICKING AMD IN HUMAN PATIENTS. THE CUTTING-EDGE GENE-EDITING TOOL, CRISPR/CAS9, WILL BE USED TO CONVERT AMD RISK GENES FROM THE HIGH-RISK TO LOW-RISK VARIANTS IN AMD PATIENT-DERIVED STEM CELLS AND EVALUATE THE EFFECT ON THE CELLS' DEFENSE AGAINST OXIDATIVE STRESS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021002F SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, LOS ANGELES. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY ANTONIO ESCUDERO PANIAGUA, PHD, ENTITLED: (M2021004F) ADDRESSING THE LINK ABOUT IMPAIRMENT IN PHAGOSOME DEGRADATION AND AGE-RELATED MACULAR DEGENERATION. INVESTIGATOR'S SUMMARY: RESEARCHERS PROPOSE TO INVESTIGATE THE MATURATION RATE AND THE ACCUMULATION OF SPECIFIC PHAGOSOME (A VESICLE FORMED AROUND A PARTICLE ENGLIFED BY A PHAGOCYTE CELL) STAGES IN RPE CELLS FROM MACULAR DYSTROPHY PATIENTS IN COMPARISON TO CELLS FROM HEALTHY PATIENTS AND MICE MODELS. . THESE STUDIES WILL PROVIDE A PARADIGM SHIFT IN OUR IDENTIFICATION AND UNDERSTANDING OF THE ETIOLOGY OF MACULAR DYSTROPHYS AND COULD BE KEY FOR THE DEVELOPMENT OF NEW STRATEGIES TO STOP OR PREVENT THEM. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021004F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF PITTSBURGH. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY SAYAN GHOSH, PHD, ENTITLED: (M2021005F) UNDERSTANDING THE ROLE OF AKT2 SIGNALING IN

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 INFLAMMATORY PROCESSES IN AGE-RELATED MACULAR DEGENERATION. INVESTIGATOR'S SUMMARY: IN THIS PROPOSAL, USING THEIR GENETICALLY ENGINEERED MOUSE MODELS, RESEARCHERS AIM TO UNDERSTAND IF THEIR GENE OF INTEREST REGULATES RETINAL INFLAMMATION AND DEGENERATION AS SEEN IN AGE-RELATED MACULAR DEGENERATION (AMD), THROUGH THE INTERACTION BETWEEN INFILTRATING INFLAMMATORY CELLS (NEUTROPHILS) AND THE IMMUNE CELLS (RETINAL MICROGLIA). UNDERSTANDING THESE MOLECULAR CHANGES MAY PROVIDE NOVEL BACKGROUND FOR FUTURE DRUG DISCOVERIES FOR ATROPHIC AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021005F NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF PENNSYLVANIA. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY ROHINI M NAIR, PHD, ENTITLED: (M2021007F) EXPLORING THE ROLE OF HEPATIC LIPASE AND LIPID METABOLISM IN AGE-RELATED MACULAR DEGENERATION PATHOGENESIS. INVESTIGATOR'S SUMMARY: THIS STUDY AIMS TO UNRAVEL THE ROLE OF HEPATIC LIPASE (HL) THAT BREAKS DOWN HIGH-DENSITY LIPOPROTEINS (HDL) TO SMALLER DENSER PARTICLES TO BE CLEARED AWAY BY SYSTEMIC CIRCULATION. UNDERSTANDING ITS ROLE IN REGULATING CHOLESTEROL EFFLUX USING CELLULAR (IPSC DERIVED RPE CULTURES) AND ANIMAL MODELS WOULD HELP DESIGN TARGETED THERAPIES FOR SLOWING DOWN THE DISEASE PROGRESSION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021007F NAME OF ORGANIZATION OR GOVERNMENT: STANFORD UNIVERSITY. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY KE NING, MD, ENTITLED: (M2021008F) CILIARY LIPIDS IN RPE REPAIR: A NOVEL TARGET FOR AGE-RELATED MACULAR DEGENERATION (AMD). INVESTIGATOR'S SUMMARY:

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 RESEARCHERS IN THIS STUDY HAVE DISCOVERED A NOVEL ROLE OF RPE CILIA (THAT LOOKS LIKE AN ANTENNA) THAT IS RELATED TO THE CONTROL OF RPE REPAIR IN MICE; LOSS OF THESE ORGANELLES PROMOTES CELL PROLIFERATION AND WOUND HEALING. THEY PROPOSE TO STUDY HOW THIS ORGANELLE MEDIATES CELL PROLIFERATION AND WOUND HEALING. THE RESULT OF THIS STUDY WILL HELP US UNDERSTAND HOW ANTENNA WORKS IN RPE PROLIFERATION AND TARGETING THIS MECHANISM FOR DRUG DEVELOPMENT IN AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021008F NAME OF ORGANIZATION OR GOVERNMENT: NATIONAL EYE INSTITUTE, NIH. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY DAVIDE ORTOLAN, PHD, ENTITLED: (M2021009F) MACULAR AND MID-PERIPHERAL SPECIFIC IPSC-RPE MODELS TO DISCOVER REGIONAL RPE SUSCEPTIBILITY IN AGE-RELATED MACULAR DEGENERATION (AMD). INVESTIGATOR'S SUMMARY: THIS STUDY WILL IDENTIFY MOLECULAR AND PHYSIOLOGICAL DIFFERENCES BETWEEN THE TWO POPULATIONS OF RPE CELLS (DERIVED FROM THE CENTRAL AND THE PERIPHERAL RETINA) IN A DISH AND WILL FIND WHICH PROPERTIES MAKE THE CENTRAL RPE MORE VULNERABLE THAN PERIPHERAL RPE. WITH THIS NEW KNOWLEDGE, PLUS HAVING AN EASILY REPRODUCIBLE MODEL IN A DISH, WILL EVENTUALLY TRANSLATE IN THE DEVELOPMENT OF DRUGS TO PREVENT VISION LOSS CAUSED BY AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021009F NAME OF ORGANIZATION OR GOVERNMENT: THE SCHEPENS EYE RESEARCH INSTITUTE. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY DAISY SHU, PHD, ENTITLED: (M2021010F) ELUCIDATING THE ROLE OF METABOLIC REPROGRAMMING IN TNFA-INDUCED RPE DYSFUNCTION AND INFLAMMATION IN

AGE-RELATED MACULAR DEGENERATION. INVESTIGATOR'S SUMMARY: THIS PROPOSAL

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 SEEKS TO INCREASE OUR UNDERSTANDING OF THE INTERPLAY BETWEEN METABOLISM AND INFLAMMATION IN AGE-RELATED MACULAR DEGENERATION (AMD). RESVERATROL (FOUND IN RED WINE) IS A DRUG KNOWN TO ENHANCE METABOLIC FUNCTION AND SUPPRESS INFLAMMATION. ITS EFFICACY IN BLOCKING TUMOR NECROSIS FACTOR-ALPHA (TNFA) WILL BE TESTED AS A POTENTIAL DRUG TARGET FOR AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021010F NAME OF ORGANIZATION OR GOVERNMENT: STANFORD UNIVERSITY. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY YOUNG JOO SUN, PHD, ENTITLED: (M2021011F) CRYOEM STRUCTURE-BASED DEVELOPMENT OF HTRA1 SPECIFIC INHIBITORS FOR AGE-RELATED MACULAR DEGENERATION (AMD). INVESTIGATOR'S SUMMARY: RESEARCHERS IN THIS STUDY PROPOSE TO CHARACTERIZE THE EFFICACY OF OUR 'LEAD-LIKE' COMPOUND THAT INHIBITS HTRA1 IN CELLS. THE SUCCESS OF THIS STUDY WILL BRING FORTH AN HTRA1 INHIBITOR AS A THERAPEUTIC CANDIDATE FOR AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021011F SCHEDULE I, PART II, LINE 1, COLUMN (H): NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, IRVINE. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY ANDREW BROWNE, MD, PHD, ENTITLED: (M2021013N) FUNCTIONAL IMAGING OF THE HUMAN RETINA USING TWO-PHOTON OPHTHALMOSCOPY. INVESTIGATOR'S SUMMARY: THIS PROPOSAL SEEKS TO DEVELOP A CAMERA FOR USE IN HUMANS AND DIRECTLY EXAMINE THE CAUSES OF AGE-RELATED MACULAR DEGENERATION IN HUMAN SUBJECTS. RESEARCHERS WILL TRANSLATE THE 2-PHOTON (2P) MICROSCOPY TECHNOLOGY ALREADY ESTABLISHED TO STUDY MODELS TO A DEVICE THAT CAN NON-INVASIVELY

ACOUIRE IMAGES AT SUCH HIGH RESOLUTION THAT THEY CAN REVEAL WHAT IS

032212 11-20-20

Name of the organization **Employer identification number** BRIGHTFOCUS FOUNDATION 23-7337229 HAPPENING INSIDE CELLS. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021013N NAME OF ORGANIZATION OR GOVERNMENT: MASSACHUSETTS EYE AND EAR INFIRMARY. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY ROSARIO FERNANDEZ GODINO, PHD, ENTITLED: (M2021014N) BIOMECHANICAL PROPERTIES OF THE BRUCH'S MEMBRANE AND THEIR RELEVANCE TO THE RPE PATHOLOGY IN AGE-RELATED MACULAR DEGENERATION. INVESTIGATOR'S SUMMARY: IN THIS PROPOSAL, RESEARCHERS WILL EVALUATE THE RIGIDITY OF EYES WITH AND WITHOUT AGE-RELATED MACULAR DEGENERATION (AMD) AND HOW THE ELASTICITY OF THE RETINA IMPACTS THE FUNCTION OF THE RETINAL CELLS. THE RESULTS WILL CONTRIBUTE TO BRIDGE THE GAPS BETWEEN AGING AND AMD AS WELL AS TO IMPROVE EXISTING THERAPEUTIC APPROACHES FOR AMD PATIENTS, SUCH AS THE RPE TRANSPLANTATION. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021014N NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORNIA, SAN FRANCISCO. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY TYSON KIM, PHD, ENTITLED: (M2021015N) ELUCIDATING THE ORIGIN AND ARTERIOVENOUS IDENTITY OF CHORIORETINAL ANASTOMOSES IN A MODEL OF TYPE 3 NEOVASCULAR AGE-RELATED MACULAR DEGENERATION. INVESTIGATOR'S SUMMARY: IN ORDER TO STUDY THE FORMATION OF CHORIORETINAL ANASTOMOSES (CRA), WHICH IS A LESION FORMED BY THE VASCULAR FUSIONS BETWEEN THE RETINAL AND CHOROIDAL VASCULAR NETWORKS, RESEARCHERS IN THIS STUDY WILL DEVELOP AN ADVANCED IMAGING METHOD TO LOOK DEEPER INTO THE LIVING EYE WITH CELLULAR RESOLUTION, MOLECULAR INFORMATION, AND THE ABILITY TO MEASURE BLOOD FLOW DOWN TO INDIVIDUAL MICROVESSEL IN NEOVASCULAR AGE-RELATED MACULAR DEGENERATIO (AMD) MODELS. THIS WILL PROVIDE INSIGHTS TO HELP

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BRIGHTFOCUS FOUNDATION 23-7337229 DEVELOP MORE EFFECTIVE TREATMENTS FOR NEOVASCULAR AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021015N NAME OF ORGANIZATION OR GOVERNMENT: NORTHWESTERN UNIVERSITY, FEINBERG SCHOOL OF MEDICINE. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY JEREMY LAVINE, MD, PHD, ENTITLED: (M2021016N) MACROPHAGE ORIGIN, HETEROGENEITY, AND FUNCTION DURING EXPERIMENTAL CHOROIDAL NEOVASCULARIZATION IN MICE. INVESTIGATOR'S SUMMARY: THE PREMISE OF THIS STUDY IS THAT THERE ARE MACROPHAGE (IMMUNE CELL) SUBTYPES, AND CLASSICALLY-DERIVED MACROPHAGES PROMOTE WET AGE RELATED MACULAR DEGENERATION (AMD), WHILE NON-CLASSICAL MACROPHAGES BLOCK WET AMD. THIS GROUP HAS IDENTIFIED A MACROPHAGE SUBSET THAT EXPRESSES BLOOD VESSEL GROWTH FACTORS DERIVED FROM CLASSICAL MACROPHAGES AND IS PRESENT IN PATIENTS WITH WET AMD. THEY FURTHER AIM TO IDENTIFY NON-CLASSICAL-DERIVED MACROPHAGE SUBSETS AND DEMONSTRATE THAT THEY INHIBIT EXPERIMENTAL WET AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021016N NAME OF ORGANIZATION OR GOVERNMENT: BAYLOR COLLEGE OF MEDICINE. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY RINKI RATNAPRIYA, PHD, ENTITLED: (M2021017N) FUNCTIONAL CHARACTERIZATION OF GENETIC REGULATORY EFFECTS OF AGE-RELATED MACULAR DEGENERATION (AMD) RISK VARIANTS. INVESTIGATOR'S SUMMARY: IN THIS PROPOSAL, RESEARCHERS WILL INTEGRATE THE GENOME-WIDE ASSOCIATED STUDIES (GWAS) FINDINGS WITH TRANSCRIPTOME (PROTEIN CODING REGION) AND EPIGENOME (DNA MODIFICATION MARKERS) DATA TO IDENTIFY UNDERLYING CAUSAL VARIANTS, REGULATORY ELEMENTS AND TARGET GENES TO ADDRESS MAJOR GAPS IN MECHANISTIC 032212 11-20-20

Name of the organization **Employer** identification number BRIGHTFOCUS FOUNDATION 23-7337229 UNDERSTANDING OF AMD. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021017N NAME OF ORGANIZATION OR GOVERNMENT: NORTHWESTERN UNIVERSITY. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY BENJAMIN THOMSON, PHD, ENTITLED: (M2021018N) ANGIOPOIETIN-TEK SIGNALING IS ESSENTIAL FOR CHORIOCAPILLARIS DEVELOPMENT AND PROTECTS AGAINST POLYPOIDAL CHOROIDAL VASCULOPATHY. INVESTIGATOR'S SUMMARY: TYPICAL WET AGE-RELATED MACULAR DEGENERATION (AMD) IS MOST COMMONLY SEEN IN PATIENTS OF EUROPEAN ANCESTRY, HOWEVER, WET AMD-LIKE DISEASE IN PATIENTS OF ASIAN AND AFRICAN ANCESTRY IS MORE COMMONLY ASSOCIATED WITH POLYPOIDAL CHOROIDAL VASCULOPATHY (PCV). THIS PROPOSAL WILL CHARACTERIZE THE ROLE OF A RECENTLY IDENTIFIED IMPORTANT BLOOD VESSEL REGULATORY SYSTEM (KNOWN AS THE ANGIOPOIETIN SIGNALING PATHWAY) IN PCV, AND TEST NEW DRUG CANDIDATES TARGETING THIS PATHWAY. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021018N NAME OF ORGANIZATION OR GOVERNMENT: INDIANA UNIVERSITY. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY MALLIKA VALAPALA, PHD, ENTITLED: (M2021019N) TRANSCRIPTIONAL REGULATION OF AUTOPHAGY AND LYSOSOMAL FUNCTION IN THE RETINAL PIGMENT EPITHELIUM. INVESTIGATOR'S SUMMARY: THIS PROPOSAL ADDRESSES STRATEGIES BY WHICH THE DEGRADATIVE ABILITY OF LYSOSOMES (CELLULAR ORGANELLE) CAN BE ENHANCED OR RESTORED TO AUGMENT CLEARANCE OF CELLULAR WASTE THAT DECLINES WITH ADVANCED AGE. THESE STRATEGIES HELP KEEP THE INTRACELLULAR ENVIRONMENT OF THE CELL CLEAN AND PROMOTE OVERALL CELLULAR HEALTH. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021019N

BRIGHTFOCUS FOUNDATION	23-7337229
NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORN	IA, SAN
FRANCISCO. (H) PURPOSE OF GRANT: MACULAR DEGENERATION RESE	ARCH BY
APARNA. LAKKARAJU, PHD, ENTITLED: (M20210201) DOES ABERRAN	Т
MECHANOTRANSDUCTION TRIGGER RPE ATROPHY IN AGE-RELATED MAC	ULAR
DEGENERATION? INVESTIGATOR'S SUMMARY: IN THIS STUDY, RESEA	RCHERS WILL
USE ADVANCED LIVE IMAGING OF THE RETINA ALONG WITH GENETIC	AND
MOLECULAR APPROACHES TO STUDY HOW INSOLUBLE AGGREGATES CAU	SE MECHANICAL
STRESS ON THE RPE AND HOW THIS CAUSES ATROPHY AND DETACHME	NT OF RPE
CELLS LEADING TO PERMANENT VISION LOSS. AT EACH STEP, THEY	WILL
EVALUATE DRUGS THAT CAN PRESERVE THE HEALTH OF THE RPE AND	PREVENT RPE
LOSS IN DISEASE MODELS. FOR MORE INFORMATION, VISIT THE BR	IGHTFOCUS
WEBSITE: WWW.BRIGHTFOCUS.ORG/GRANT/M2021020I	
NAME OF ORGANIZATION OR GOVERNMENT: UNIVERSITY OF CALIFORN	IA, IRVINE.
(H) PURPOSE OF GRANT: MACULAR DEGENERATION RESEARCH BY DOR	OTA
SKOWRONSKA-KRAWCZYK, PHD, ENTITLED: (M2020271) ROLE OF ELO	VL2 IN AGE
RELATED CHANGES IN THE EYE. EMERGENCY RELIEF SUPPLEMENT DU	Е ТО
COVID-19. FOR MORE INFORMATION, VISIT THE BRIGHTFOCUS WEBS	ITE:
WWW.BRIGHTFOCUS.ORG/GRANT/M2020271	

SCHEDULE R (Form 990) Name of the organization

Department of the Treasury Internal Revenue Service

Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37. Related Organizations and Unrelated Partnerships

▶ Attach to Form 990.

Open to Public Inspection

Go to www.irs.gov/Form990 for instructions and the latest information.

2020

OMB No. 1545-0047

Employer identification number 23-7337229

Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33. BRIGHTFOCUS FOUNDATION Part I

4,009,566, BRIGHTFOCUS FOUNDATION 3,455,831. BRIGHTFOCUS FOUNDATION Direct controlling entity Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related tax-exempt organizations during the tax year. End-of-year assets **e** . 549,238. Total income € Legal domicile (state or foreign country) MARYLAND MARYLAND Primary activity OWNER OF BRIGHTFOCUS PROPERTY RENTAL AND HEADQUARTERS MANAGEMENT LLC - 23-7337229 - 23-7337229 Name, address, and EIN (if applicable) of disregarded entity AMERICAN HEALTH ASSISTANCE, 22512 GATEWAY CENTER DRIVE 22512 GATEWAY CENTER DRIVE LLC NATIONAL DEVELOPMENT, CLARKSBURG, MD 20871 CLARKSBURG, MD 20871 Part II

Section 512(b)(13) controlled entity?	No						
(g) Section 512 controll	Yes						
(f) Direct controlling entity							
(e) Public charity status (if section	501(c)(3))						
(d) Exempt Code section							
(c) Legal domicile (state or foreign country)							
(b) Primary activity							
(a) Name, address, and EIN of related organization							

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule R (Form 990) 2020

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Schedule R (Form 990) 2020 BRIGH

Part III Identification of Related Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a partnership during the tax year.

(K)	General or Percentage managing ownership partner?								
9	General or managing partner?								
(E)	JBI box dule 1065)								
(h)	Disproportionate allocations?								
(6)	Share of end-of-year assets								
(f)	Share of total income								
(e)	Predominant income (related, unrelated, excluded from tax under sections 512-514)								
(p)	Direct controlling entity								
(၁)	Legal domicile (state or foreign country)								
(q)	Primary activity								
(a)	Name, address, and EIN of related organization								

Identification of Related Organizations Taxable as a Corporation or Trust. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a corporation or trust during the tax year. Part IV

			ı					1		i	
  E	Section 512(b)(13) controlled entity?	Yes No									
	512 cont	Yes									
(h)	Percentage ownership										
(6)	Share of end-of-year	d33513									
(£)	Share of total income										
(e)	ype of entity corp, S corp	OI tidat)									
(b)	Direct controlling entity										
(0)	Legal domicile (state or foreign	country)									
(q)	Primary activity										
(a)	Name, address, and EIN of related organization										

Schedule R (Form 990) 2020

Part V Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.

				$\vdash$	1
<b>Note:</b> Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule.				Yes	٥
	is with one or more re	ated organizations listed i	II Paris II-1V?	1	
<ul> <li>a neception (I) interest, (II) aminutes, (III) logarities, or (IV) rent normal contributed entity</li> <li>b. Ciff grant or contribution to related organization(s)</li> </ul>				<u>a</u> 4	
				2 ,	
Gill, graill, or capital contribution form related organization(s)				2	
d Loans or loan guarantees to or for related organization(s)				1d	
e Loans or loan guarantees by related organization(s)				1e	
f Dividends from related organization(s)				#	
				= 3	
				61	
h Purchase of assets from related organization(s)				<b>1</b>	
i Exchange of assets with related organization(s)				;=	
j Lease of facilities, equipment, or other assets to related organization(s)				1,	ļ
k Lease of facilities, equipment, or other assets from related organization(s)				1k	
I Performance of services or membership or fundraising solicitations for related organization(s)	anization(s)			11	
m Performance of services or membership or fundraising solicitations by related organization(s)	anization(s)			<del>1</del>	
Sharing of facilities equipment mailing lists or other assets with relat	ion(s)			5	
	(5)				
o sharing of paid employees with related organization(s)				OL	
p Reimbursement paid to related organization(s) for expenses				1 <sub>p</sub>	
q Reimbursement paid by related organization(s) for expenses				1g	
				+	
(S)				\$	
1	who must complete th	z Parayoo pulpulpul adil a	elationships and transaction thresholds	2	
Т		s III e, III ciddii g covered	Figure 1 and than saction times folds.		
<b>(a)</b> Name of related organization	(b) Transaction type (a-s)	<b>(c)</b> Amount involved	( <b>d)</b> Method of determining amount involved	olved	
(F)					
(2)					
(3)					
(4)					
(5)					
Š					
( <b>0</b> )			Schedule	Schedule B (Form 990) 2020	100

Schedule R (Form 990) 2020 BRIGHTFOCUS FOUNDATION

Part VI Unrelated Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 37.

Provide the following information for each entity taxed as a partnership through which the organization conducted more than five percent of its activities (measured by total assets or gross revenue) that was not a related organization. See instructions regarding exclusion for certain investment partnerships.

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(k) ercenta wnersh								990) 20
General or P managing partner?								orm (
Gene Gene Dart Pes								e R (F
(h)								Schedule R (Form 990) 2020
(h) Disproportionate allocations?								
Dis allo								
(g) Share of end-of-year assets								
(f) Share of total income								
(e) Are all partners sec. 501(c)(3) orgs.? er Yes No								
ne pari								
(d) Predominant income proceed (related, unrelated, excluded from tax under sections 512-514)								
cile eign								
(c) Legal domicile (state or foreign country)								
, ty								
(b) Primary activity								
(b) imary a								
<u>ā</u>								
z								
(a) Name, address, and EIN of entity								
(a) Iress, entity								
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Nam								
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