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Part III Statement of Program Service AccomplishmentsCheck if Schedule O contains a response or note to any line in this Part III ☐ ☒**1** Briefly describe the organization's mission

SEE SCHEDULE O

2 Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? ☐ Yes ☒ No

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 ☒ No

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

4a	(Code)	(Expenses \$ 73,677,888	including grants of \$ 2,218,297	(Revenue \$ 338,417)
See Additional Data				

4b	(Code)	(Expenses \$	including grants of \$	(Revenue \$)
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4c	(Code)	(Expenses \$	including grants of \$	(Revenue \$)
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4d	Other program services (Describe in Schedule O)	(Expenses \$	including grants of \$	(Revenue \$)
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4e	Total program service expenses ▶	73,677,888
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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 Yes	
2 Is the organization required to complete Schedule B, Schedule of Contributors (see instructions)?	2 Yes	
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	No
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	No
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	No
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I	6	No
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II	7	No
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III	8	No
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	No
10 Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi-endowments? If "Yes," complete Schedule D, Part V	10 Yes	
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		
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI	11a Yes	
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	No
c 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	No
d 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 Part X, line 16? If "Yes," complete Schedule D, Part IX	11d Yes	
e Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X	11e Yes	
f Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X	11f Yes	
12a Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII	12a	No
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 Yes	
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13	No
14a Did the organization maintain an office, employees, or agents outside of the United States?	14a	No
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	No
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	No
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	No
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 (see instructions)	17	No
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II	18	No
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III	19	No

Part IV Checklist of Required Schedules (continued)

	Yes	No
20a Did the organization operate one or more hospital facilities? <i>If "Yes," complete Schedule H</i>		No
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?		
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? <i>If "Yes," complete Schedule I, Parts I and II</i>	Yes	
22 Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>	Yes	
23 Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>	Yes	
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? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i>		No
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?		
c Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?		
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?		
25a 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? <i>If "Yes," complete Schedule L, Part I</i>		No
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? <i>If "Yes," complete Schedule L, Part I</i>		No
26 Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If "Yes," complete Schedule L, Part II</i>		No
27 Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>		No
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)		
a A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>		No
b A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	Yes	
c An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <i>If "Yes," complete Schedule L, Part IV</i>		No
29 Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>	Yes	
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>		No
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>		No
32 Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>		No
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? <i>If "Yes," complete Schedule R, Part I</i>		No
34 Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i>	Yes	
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?	Yes	
b If 'Yes' to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>	Yes	
36 Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>		No
37 Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>		No
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	Yes	

Part V Statements Regarding Other IRS Filings and Tax ComplianceCheck if Schedule O contains a response or note to any line in this Part V ☐

		Yes	No
1a	Enter the number reported in Box 3 of Form 1096 Enter -0- if not applicable	1a	18
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 (gambling) winnings to prize winners?	1c	Yes
2a	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	380
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)	2b	Yes
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a	No
b	If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation in Schedule O	3b	
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a	No
b	If "Yes," enter the name of the foreign country ► _____ See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR)		
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a	No
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b	No
c	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	No
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	6b	
7	Organizations that may receive deductible contributions under section 170(c).		
a	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	No
b	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?	7c	No
d	If "Yes," indicate the number of Forms 8282 filed during the year	7d	
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e	No
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f	No
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g	
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h	
8	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	
9a	Did the sponsoring organization make any taxable distributions under section 4966?	9a	
b	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b	
10	Section 501(c)(7) organizations. Enter		
a	Initiation fees and capital contributions included on Part VIII, line 12	10a	
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10b	
11	Section 501(c)(12) organizations. Enter		
a	Gross income from members or shareholders	11a	
b	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them)	11b	
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a	
b	If "Yes," enter the amount of tax-exempt interest received or accrued during the year	12b	
13	Section 501(c)(29) qualified nonprofit health insurance issuers.		
a	Is the organization licensed to issue qualified health plans in more than one state? Note. See the instructions for additional information the organization must report on Schedule O	13a	
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	13b	
c	Enter the amount of reserves on hand	13c	
14a	Did the organization receive any payments for indoor tanning services during the tax year?	14a	No
b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O	14b	

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

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

Section 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		
	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 in Schedule O		
1b	Enter the number of voting members included in line 1a, above, who are independent		
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?	Yes	
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors or trustees, or key employees to a management company or other person?		No
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?		No
5	Did the organization become aware during the year of a significant diversion of the organization's assets?		No
6	Did the organization have members or stockholders?		No
7a	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?		No
7b	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?		No
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:		
8a	The governing body?	Yes	
8b	Each committee with authority to act on behalf of the governing body?	Yes	
9	Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses in Schedule O.		No

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

		Yes	No
10a	Did the organization have local chapters, branches, or affiliates?		No
10b	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?		
11a	Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	Yes	
11b	Describe in Schedule O the process, if any, used by the organization to review this Form 990.		
12a	Did the organization have a written conflict of interest policy? If "No," go to line 13.	Yes	
12b	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	Yes	
12c	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done.	Yes	
13	Did the organization have a written whistleblower policy?	Yes	
14	Did the organization have a written document retention and destruction policy?	Yes	
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?		
15a	The organization's CEO, Executive Director, or top management official.	Yes	
15b	Other officers or key employees of the organization.		No
	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?		No
16b	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?		

Section C. Disclosure

17 List the States with which a copy of this Form 990 is required to be filed: _____

18 Section 6104 requires an organization to make its Form 1023 (or 1024 if applicable), 990, and 990-T (501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.

☐ Own website ☐ Another's website ☒ Upon request ☐ Other (explain in Schedule O)

19 Describe in Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial 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.

▶ J SCOTT PETTET 1000 E 50TH STREET KANSAS CITY, MO 64110 (816) 926-4000

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

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, or 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

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons

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

Form **990** (2016)

Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)

(A) Name and Title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional Trustee	Officer	Key employee	Highest compensated employee	Former			
1b Sub-Total ▶										
c Total from continuation sheets to Part VII, Section A ▶										
d Total (add lines 1b and 1c) ▶								3,829,017	5,937,357	631,736

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization ▶ 40

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

Section B. Independent Contractors

1 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	(C) Compensation
AMERICAN CENTURY INVESTMENTS, 4500 MAIN STREET KANSAS CITY, MO 64111	INDIRECT - SEE SCH O	161,000

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 of compensation from the organization ▶ 1

Part VIII **Statement of Revenue**

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

			(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514
Contributions, Gifts, Grants and Other Similar Amounts	1a Federated campaigns . . .	1a				
	b Membership dues . . .	1b				
	c Fundraising events . . .	1c				
	d Related organizations	1d	60,100,000			
	e Government grants (contributions)	1e	4,127,366			
	f All other contributions, gifts, grants, and similar amounts not included above	1f	1,119,965			
	g Noncash contributions included in lines 1a-1f \$ _____		60,100,000			
	h Total. Add lines 1a-1f		65,347,331			
Program Service Revenue			Business Code			
	2a COLLABORATION FEE FROM HHMI 501(C)(3)		900099	338,417	338,417	
	b _____					
	c _____					
	d _____					
	e _____					
	f All other program service revenue					
	g Total. Add lines 2a-2f		338,417			
Other Revenue	3 Investment income (including dividends, interest, and other similar amounts)		776,885			776,885
	4 Income from investment of tax-exempt bond proceeds		0			
	5 Royalties		377			377
	6a Gross rents	(i) Real (ii) Personal				
		14,694				
	b Less rental expenses	14,694				
	c Rental income or (loss)	0 0				
	d Net rental income or (loss)		0			
	7a Gross amount from sales of assets other than inventory	(i) Securities (ii) Other				
		91,576,797 11,231				
	b Less cost or other basis and sales expenses	91,318,775 89,802				
	c Gain or (loss)	258,022 -78,571				
	d Net gain or (loss)		179,451			179,451
	8a Gross income from fundraising events (not including \$ _____ of contributions reported on line 1c) See Part IV, line 18	a	0			
	b Less direct expenses	b	0			
	c Net income or (loss) from fundraising events		0			
	9a Gross income from gaming activities See Part IV, line 19	a	0			
	b Less direct expenses	b	0			
	c Net income or (loss) from gaming activities		0			
	10a Gross sales of inventory, less returns and allowances . . .	a	0			
	b Less cost of goods sold . . .	b	0			
	c Net income or (loss) from sales of inventory		0			
Miscellaneous Revenue		Business Code				
11a OTHER REBATES & REVENUE		900099	107,074		107,074	
b _____						
c _____						
d All other revenue						
e Total. Add lines 11a-11d		107,074				
12 Total revenue. See Instructions		66,749,535	338,417		1,063,787	

Part IX Statement of Functional Expenses

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

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

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.				
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21.	1,200,500	1,200,500		
2 Grants and other assistance to domestic individuals. See Part IV, line 22.	1,017,797	1,017,797		
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, line 15 and 16.	0			
4 Benefits paid to or for members.	0			
5 Compensation of current officers, directors, trustees, and key employees.	2,477,722	2,229,950	247,772	
6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B).	0			
7 Other salaries and wages.	21,511,240	19,360,116	2,151,124	
8 Pension plan accruals and contributions (include section 401 (k) and 403(b) employer contributions).	2,383,561	2,145,205	238,356	
9 Other employee benefits.	3,419,017	3,077,115	341,902	
10 Payroll taxes.	1,604,300	1,443,870	160,430	
11 Fees for services (non-employees):				
a Management.	0			
b Legal.	0			
c Accounting.	0			
d Lobbying.	0			
e Professional fundraising services. See Part IV, line 17.	0			
f Investment management fees.	0			
g Other (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O).	1,227,500	1,104,750	122,750	
12 Advertising and promotion.	0			
13 Office expenses.	246,051	221,446	24,605	
14 Information technology.	307,130	276,417	30,713	
15 Royalties.	188	169	19	
16 Occupancy.	2,215,857	1,994,271	221,586	
17 Travel.	601,189	541,070	60,119	
18 Payments of travel or entertainment expenses for any federal, state, or local public officials.	0			
19 Conferences, conventions, and meetings.	630,118	567,106	63,012	
20 Interest.	0			
21 Payments to affiliates.	0			
22 Depreciation, depletion, and amortization.	9,900,402	8,910,362	990,040	
23 Insurance.	0			
24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O):				
a COST-SHARING W/RELATED ORG	24,202,789	21,782,510	2,420,279	
b LAB SUPPLIES	6,544,843	6,544,843		
c NON-CAPITAL EQUIPMENT	615,146	553,631	61,515	
d COLLABORATION EXPENSES	536,250	482,625	53,625	
e All other expenses	249,039	224,135	24,904	
25 Total functional expenses. Add lines 1 through 24e.	80,890,639	73,677,888	7,212,751	0
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 <input type="checkbox"/> if following SOP 98-2 (ASC 958-720).				

Part X Balance SheetCheck if Schedule O contains a response or note to any line in this Part IX ☐

				(A) Beginning of year		(B) End of year	
Assets	1	Cash—non-interest-bearing		0	1	0	
	2	Savings and temporary cash investments		1,791,331	2	2,113,368	
	3	Pledges and grants receivable, net		312,345	3	350,487	
	4	Accounts receivable, net		0	4	0	
	5	Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L.		0	5	0	
	6	Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instructions). Complete Part II of Schedule L.		0	6	0	
	7	Notes and loans receivable, net		0	7	0	
	8	Inventories for sale or use		5,982	8	2,279	
	9	Prepaid expenses and deferred charges		411,215	9	373,549	
	10a	Land, buildings, and equipment—cost or other basis. Complete Part VI of Schedule D.	10a	328,119,316			
	b	Less: accumulated depreciation	10b	177,668,972	153,023,404	10c	150,450,344
	11	Investments—publicly traded securities		94,705,972	11	84,258,083	
	12	Investments—other securities. See Part IV, line 11		466,247	12	502,429	
	13	Investments—program-related. See Part IV, line 11		0	13	0	
	14	Intangible assets		0	14	0	
	15	Other assets. See Part IV, line 11		110,814,137	15	100,398,501	
16	Total assets. Add lines 1 through 15 (must equal line 34)		361,530,633	16	338,449,040		
Liabilities	17	Accounts payable and accrued expenses		7,104,251	17	8,156,226	
	18	Grants payable		0	18	0	
	19	Deferred revenue		235,360	19	312,319	
	20	Tax-exempt bond liabilities		0	20	0	
	21	Escrow or custodial account liability. Complete Part IV of Schedule D.		0	21	0	
	22	Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L		0	22	0	
	23	Secured mortgages and notes payable to unrelated third parties		0	23	0	
	24	Unsecured notes and loans payable to unrelated third parties		0	24	0	
	25	Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D.		115,222,801	25	105,441,996	
	26	Total liabilities. Add lines 17 through 25		122,562,412	26	113,910,541	
Net Assets or Fund Balances	Organizations that follow SFAS 117 (ASC 958), check here <input checked="" type="checkbox"/> and complete lines 27 through 29, and lines 33 and 34.						
	27	Unrestricted net assets		238,929,030	27	223,911,846	
	28	Temporarily restricted net assets		39,191	28	626,653	
	29	Permanently restricted net assets		0	29	0	
	Organizations that do not follow SFAS 117 (ASC 958), check here <input type="checkbox"/> and complete lines 30 through 34.						
	30	Capital stock or trust principal, or current funds			30		
	31	Paid-in or capital surplus, or land, building or equipment fund			31		
	32	Retained earnings, endowment, accumulated income, or other funds			32		
33	Total net assets or fund balances		238,968,221	33	224,538,499		
34	Total liabilities and net assets/fund balances		361,530,633	34	338,449,040		

Part XI Reconciliation of Net AssetsCheck if Schedule O contains a response or note to any line in this Part XI ☒

1	Total revenue (must equal Part VIII, column (A), line 12)	1	66,749,535
2	Total expenses (must equal Part IX, column (A), line 25)	2	80,890,639
3	Revenue less expenses Subtract line 2 from line 1	3	-14,141,104
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	238,968,221
5	Net unrealized gains (losses) on investments	5	34,503
6	Donated services and use of facilities	6	
7	Investment expenses	7	
8	Prior period adjustments	8	
9	Other changes in net assets or fund balances (explain in Schedule O)	9	-323,121
10	Net assets or fund balances at end of year Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	224,538,499

Part XII Financial Statements and ReportingCheck if Schedule O contains a response or note to any line in this Part XII ☐

	Yes	No
1 Accounting method used to prepare the Form 990 <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other _____ If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule O		
2a Were the organization's financial statements compiled or reviewed by an independent accountant? If 'Yes,' check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both <input type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis		No
b 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 basis, consolidated basis, or both <input type="checkbox"/> Separate basis <input checked="" type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis	Yes	
c If "Yes," to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O	Yes	
3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?	Yes	
b If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why in Schedule O and describe any steps taken to undergo such audits	Yes	

Additional Data

Software ID:

Software Version:

EIN: 20-2993509

Name: STOWERS INSTITUTE FOR MEDICAL RESEARCH

Form 990 (2016)

Form 990, Part III, Line 4a:

SIMR'S ACCOMPLISHMENTS ARE DESCRIBED IN SCHEDULE O

SCHEDULE A
(Form 990 or
990EZ)

Department of the Treasury
Internal Revenue Service

Name of the organization

STOWERS INSTITUTE FOR MEDICAL RESEARCH

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.

▶ Information about Schedule A (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047

2016

Open to Public Inspection

Employer identification number

20-2993509

Part I Reason for Public Charity Status (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is (For lines 1 through 12, check only one box.)

- 1 ☐ 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))
- 3 ☐ A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii)**.
- 4 ☒ 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 _____
SEE SCHEDULE A, _____, PART VI, MA
- 5 ☐ 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)
- 6 ☐ A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v)**.
- 7 ☐ 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)
- 9 ☐ 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 university _____
- 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)
- 11 ☐ An organization organized and operated exclusively to test for public safety. See **section 509(a)(4)**.
- 12 ☐ 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.
- a ☐ **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.**
- 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.**
- 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.**
- d ☐ **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.**
- e ☐ Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.
- f Enter the number of supported organizations _____
- g Provide the following information about the supported organization(s)

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1-10 above (see instructions))	(iv) Is the organization listed in your governing document?		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
			Yes	No		
Total						

Part II

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, 8, or 9 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.)

Section A. Public Support

	Calendar year (or fiscal year beginning in) ▶	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
1	Gifts, grants, contributions, and membership fees received (Do not include any "unusual grant.")						
2	Tax revenues levied for the organization'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						
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)						
6	Public support. Subtract line 5 from line 4						

Section B. Total Support

	Calendar year (or fiscal year beginning in) ▶	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
7	Amounts from line 4						
8	Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
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						
12	Gross receipts from related activities, etc. (see instructions)					12	
13	First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here ▶ <input type="checkbox"/>						

Section C. Computation of Public Support Percentage

14	Public support percentage for 2016 (line 6, column (f) divided by line 11, column (f))	14	
15	Public support percentage for 2015 Schedule A, Part II, line 14	15	
16a	33 1/3% support test—2016. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization ▶ <input type="checkbox"/>		
b	33 1/3% support test—2015. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization ▶ <input type="checkbox"/>		
17a	10%-facts-and-circumstances test—2016. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization ▶ <input type="checkbox"/>		
b	10%-facts-and-circumstances test—2015. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization ▶ <input type="checkbox"/>		
18	Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions ▶ <input type="checkbox"/>		

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

Calendar year (or fiscal year beginning in) ►	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(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 performed, 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 business under section 513						
4 Tax revenues levied for the organization'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						
7a Amounts included on lines 1, 2, and 3 received from disqualified persons						
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.)						

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
9 Amounts from line 6						
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
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.)						
13 Total support. (Add lines 9, 10c, 11, and 12.)						

14 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and **stop here** ☐

Section C. Computation of Public Support Percentage

15 Public support percentage for 2016 (line 8, column (f) divided by line 13, column (f))	15	
16 Public support percentage from 2015 Schedule A, Part III, line 15	16	

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2016 (line 10c, column (f) divided by line 13, column (f))	17	
18 Investment income percentage from 2015 Schedule A, Part III, line 17	18	

19a 33 1/3% support tests—2016. If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ☐

b 33 1/3% support tests—2015. If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3% and line 18 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ☐

20 Private foundation. If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions ☐

Part IV Supporting Organizations

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

Section A. All Supporting Organizations

	Yes	No
1 Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>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.</i>	1	
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>	2	
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer (b) and (c) below.</i>	3a	
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)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>	3b	
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>	3c	
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes" and if you checked 12a or 12b in Part I, answer (b) and (c) below.</i>	4a	
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>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.</i>	4b	
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)? <i>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.</i>	4c	
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer (b) and (c) 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).</i>	5a	
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?	5b	
c Substitutions only. Was the substitution the result of an event beyond the organization's control?	5c	
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? <i>If "Yes," provide detail in Part VI.</i>	6	
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (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? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>	7	
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>	8	
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))? <i>If "Yes," provide detail in Part VI.</i>	9a	
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? <i>If "Yes," provide detail in Part VI.</i>	9b	
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? <i>If "Yes," provide detail in Part VI.</i>	9c	
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)? <i>If "Yes," answer line 10b below.</i>	10a	
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>	10b	

Part IV Supporting Organizations (continued)

	Yes	No
11 Has the organization accepted a gift or contribution from any of the following persons?		
a A person who directly or indirectly controls, either alone or together with persons described in (b) and (c) below, the governing body of a supported organization?		
b A family member of a person described in (a) above?		
c A 35% controlled entity of a person described in (a) or (b) above? <i>If "Yes" to a, b, or c, provide detail in Part VI</i>		
11a		
11b		
11c		

Section B. Type I Supporting Organizations

	Yes	No
1 Did the directors, trustees, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the tax year? <i>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 directors or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.</i>		
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? <i>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.</i>		
2		

Section 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 or trustees of each of the organization's supported organization(s)? <i>If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).</i>		
1		

Section D. All Type III Supporting Organizations

	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? <i>If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).</i>		
2		
3 By reason of the relationship described in (2), 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? <i>If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.</i>		
3		

Section 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)		
a <input type="checkbox"/> The organization satisfied the Activities Test. Complete line 2 below.		
b <input type="checkbox"/> The organization is the parent of each of its supported organizations. Complete line 3 below.		
c <input type="checkbox"/> The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see instructions).		
2 Activities Test Answer (a) and (b) below.		
a 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? <i>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.</i>		
2a		
b Did the activities described in (a) constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? <i>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.</i>		
2b		
3 Parent of Supported Organizations Answer (a) and (b) below.		
a Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? <i>Provide details in Part VI.</i>		
3a		
b Did the organization exercise a substantial degree of direction over the policies, programs and activities of each of its supported organizations? <i>If "Yes," describe in Part VI the role played by the organization in this regard.</i>		
3b		

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

- 1** ☐ Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970. **See instructions.** All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section 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	

Section 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)	1	
a Average monthly value of securities	1a	
b Average monthly cash balances	1b	
c Fair market value of other non-exempt-use assets	1c	
d Total (add lines 1a, 1b, and 1c)	1d	
e 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 1-1/2% 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 .035	6	
7 Recoveries of prior-year distributions	7	
8 Minimum Asset Amount (add line 7 to line 6)	8	

Section C - Distributable Amount

		Current Year
1 Adjusted net income for prior year (from Section A, line 8, Column A)	1	
2 Enter 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 <input type="checkbox"/> Check here if the current year is the organization's first as a non-functionally-integrated Type III supporting organization (see instructions)		

Part V

Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations (continued)

Section D - Distributions	Current Year
1 Amounts paid to supported organizations to accomplish exempt purposes	
2 Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	
3 Administrative expenses paid to accomplish exempt purposes of supported organizations	
4 Amounts paid to acquire exempt-use assets	
5 Qualified set-aside amounts (prior IRS approval required)	
6 Other distributions (describe in Part VI) See instructions	
7 Total annual distributions. Add lines 1 through 6	
8 Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI) See instructions	
9 Distributable amount for 2016 from Section C, line 6	
10 Line 8 amount divided by Line 9 amount	

Section E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2016	(iii) Distributable Amount for 2016
1 Distributable amount for 2016 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2016 (reasonable cause required--see instructions)			
3 Excess distributions carryover, if any, to 2016			
a			
b			
c From 2013.			
d From 2014.			
e From 2015.			
f Total of lines 3a through e			
g Applied to underdistributions of prior years			
h Applied to 2016 distributable amount			
i Carryover from 2011 not applied (see instructions)			
j Remainder Subtract lines 3g, 3h, and 3i from 3f			
4 Distributions for 2016 from Section D, line 7 \$			
a Applied to underdistributions of prior years			
b Applied to 2016 distributable amount			
c Remainder Subtract lines 4a and 4b from 4			
5 Remaining underdistributions for years prior to 2016, if any Subtract lines 3g and 4a from line 2 (if amount greater than zero, see instructions)			
6 Remaining underdistributions for 2016 Subtract lines 3h and 4b from line 1 (if amount greater than zero, see instructions)			
7 Excess distributions carryover to 2017. Add lines 3j and 4c			
8 Breakdown of line 7			
a			
b Excess from 2013.			
c Excess from 2014.			
d Excess from 2015.			
e Excess from 2016.			

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 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).

Facts And Circumstances Test

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Return Reference	Explanation
<p>PART I, LINE 4</p>	<p>COOPERATION AGREEMENTS AND COLLABORATIONS IN 2016, STOWERS INSTITUTE FOR MEDICAL RESEARCH (SIMR) SCIENTISTS COLLABORATED WITH RESEARCHERS AT MORE THAN 60 NATIONAL INSTITUTIONS AND MORE THAN 40 INTERNATIONAL INSTITUTIONS INCLUDING DOZENS OF HOSPITALS, MEDICAL CENTERS, AND MEDICAL SCHOOLS. MANY OF THESE COLLABORATIONS RESULTED IN DISCOVERIES THAT MERITED PUBLICATION IN LEADING PEER-REVIEWED SCIENTIFIC JOURNALS AND/OR SUCCESSFULLY FUNDED GRANT AWARDS. SIMR CONDUCTS MEDICAL RESEARCH IN CONJUNCTION WITH THE UNIVERSITY OF KANSAS (KU) AND ITS AFFILIATES THE UNIVERSITY OF KANSAS HOSPITAL AUTHORITY AND THE UNIVERSITY OF KANSAS MEDICAL CENTER (KUMC), PURSUANT TO A WRITTEN MEMORANDUM OF UNDERSTANDING. KUMC IS THE ACADEMIC HEALTH SCIENCE CENTER OF THE LARGEST PUBLIC RESEARCH UNIVERSITY IN THE STATE OF KANSAS. KUMC OFFERS PROGRAMS AND SERVICES THAT FOCUS ON EDUCATION, RESEARCH, PATIENT CARE, AND COMMUNITY ENGAGEMENT. TO DATE, 3 KUMC STUDENTS HAVE RECEIVED M.S. DEGREES AND ABOUT 40 HAVE RECEIVED PH.D. DEGREES FOR THESIS WORK PERFORMED IN SIMR'S LABS. KUMC IS AFFILIATED WITH THE UNIVERSITY OF KANSAS HOSPITAL, A NONPROFIT INDEPENDENT HOSPITAL CO-LOCATED WITH THE MAIN KUMC CAMPUS IN KANSAS CITY, KS. TWENTY-TWO SIMR RESEARCH PROGRAM LEADERS ARE ADJUNCT FACULTY IN FOUR KUMC DEPARTMENTS. THESE APPOINTMENTS INCLUDE 12 FULL PROFESSORS, SIX ASSOCIATE PROFESSORS, AND FOUR ASSISTANT PROFESSORS. IN 2016, 29 OF SIMR'S 51 ORIGINAL RESEARCH PUBLICATIONS INCLUDED BOTH SIMR AND KUMC AFFILIATIONS. ABOUT 20 KUMC STUDENTS PERFORMED DISSERTATION WORK IN SIMR LABS IN 2016. SIMR IS ALSO A CONSORTIUM MEMBER OF THE UNIVERSITY OF KANSAS CANCER CENTER AT KUMC, A CANCER RESEARCH AND CARE PARTNERSHIP SPANNING TWO STATES AND INVOLVING COLLABORATION AMONG RESEARCHERS, PHYSICIANS, AND CANCER SUPPORT PROFESSIONALS IN BASIC, TRANSLATIONAL, AND CLINICAL RESEARCH AREAS. IN JUNE 2012, THE NCI'S NATIONAL CANCER INSTITUTE (NCI) NAMED THE UNIVERSITY OF KANSAS CANCER CENTER AS A NCI-DESIGNATED CANCER CENTER. THE NCI CANCER CENTERS PROGRAM IS A PILLAR OF FEDERAL CANCER RESEARCH EFFORTS AND IS INTEGRAL TO THE NCI'S PROGRAMS FOR STUDYING, TREATING, AND PREVENTING CANCER. IN KUMC'S APPLICATION TO THE NCI CANCER CENTERS PROGRAM, \$4 MILLION OF THE \$48 MILLION IN GRANTS CITED IN THE APPLICATION WERE GRANTS THAT HAD BEEN AWARDED TO SIMR INVESTIGATORS. CURRENTLY, 12 SIMR RESEARCH PROGRAM LEADERS ARE MEMBERS OF THE UNIVERSITY OF KANSAS CANCER CENTERS CANCER BIOLOGY RESEARCH PROGRAM, INCLUDING LINHENG LI, PH.D., WHO SERVES AS CO-LEADER OF THE PROGRAM. IN 2016, SIMR RESEARCH PROGRAM LEADER PAUL KULESA, PH.D., CONTINUED A RESEARCH COLLABORATION WITH DANNY WELCH, PH.D., PROFESSOR AND CHAIR OF THE DEPARTMENT OF CANCER BIOLOGY AT KUMC AND ASSOCIATE DIRECTOR OF THE UNIVERSITY OF KANSAS CANCER CENTER. THE COLLABORATION FOCUSES ON UNDERSTANDING MECHANISMS THAT UNDERLIE THE DEVELOPMENT OF NEUROBLASTOMA. DR. WELCH IS AN ACCOMPLISHED RESEARCHER IN THE AREA OF TUMOR PROGRESSION AND UNDERLYING GENETIC AND EPIGENETIC CONTROLS. THIS</p>

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Return Reference	Explanation
PART I, LINE 4	<p>WORK IS SUPPORTED BY AN NIH GRANT FROM THE NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE IN 2016, SIMR RESEARCH PROGRAM LEADER MICHAEL WASHBURN, PH D , INITIATED A RESEARCH PROJECT IN COLLABORATION WITH DR WELCH FROM KUMC THE OVERALL AIM OF THIS RESEARCH EFFORT IS TO DETERMINE HOW CANCER THERAPEUTICS ACT ON PROTEIN NETWORKS IN CELLS AND TISSUES AS DESCRIBED ABOVE, DR WELCH IS A WELL-ESTABLISHED CANCER RESEARCHER RESULTS FROM THESE STUDIES MAY ENABLE THE FUTURE DEVELOPMENT OF MORE SPECIFIC AND EFFECTIVE HUMAN THERAPEUTICS THIS WORK IS SUPPORTED IN PART BY AN NIH GRANT FROM THE NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES SIMR ALSO PARTICIPATED IN COLLABORATIONS CONDUCTING RESEARCH IN CONJUNCTION WITH THE FOLLOWING US HOSPITALS, PURSUANT TO AN UNDERSTANDING TO MAINTAIN CONTINUING CLOSE COOPERATION IN THE ACTIVE CONDUCT OF MEDICAL RESEARCH IN 2016 INSTITUTION LOCATION BENIOFF CHILDRENS HOSPITAL AT UCSF SAN FRANCISCO, CA BOSTON CHILDRENS HOSPITAL BOSTON, MA CASE WESTERN RESERVE SCHOOL OF MEDICINE CLEVELAND, OH CHILDRENS HOSPITAL OF PHILADELPHIA PHILADELPHIA, PA CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER CINCINNATI, OH COLUMBIA UNIVERSITY MEDICAL CENTER NEW YORK, NY DAVID GEFFEN SCHOOL OF MEDICINE AT UCLA LOS ANGELES, CA INDIANA UNIVERSITY SCHOOL OF MEDICINE INDIANAPOLIS, IN JOHNS HOPKINS SCHOOL OF MEDICINE BALTIMORE, MD KECK SCHOOL OF MEDICINE AT USC LOS ANGELES, CA MATTEL CHILDRENS HOSPITAL AT UC LA LOS ANGELES, CA MAYO CLINIC ROCHESTER, MN NEW YORK STATE PSYCHIATRIC INSTITUTE NEW YORK , NY NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE CHICAGO, IL OREGON HEALTH & SCIENCE UNIVERSITY SCHOOL OF MEDICINE PORTLAND, OR OSTROW SCHOOL OF DENTISTRY AT USC LOS ANGELES, CA STANFORD UNIVERSITY SCHOOL OF MEDICINE PALO ALTO, CA STATE UNIVERSITY OF NEW YORK HEALTH SCIENCE CENTER NEW YORK, NY ST JUDE CHILDRENS RESEARCH HOSPITAL MEMPHIS, TN STEIN EYE INSTITUTE AT UCLA LOS ANGELES, CA UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES LITTLE ROCK, AR UNIVERSITY OF CALIFORNIA DAVIS SCHOOL OF MEDICINE DAVIS, CA UNIVERSITY OF CALIFORNIA SAN FRANCISCO SCHOOL OF MEDICINE SAN FRANCISCO, CA UNIVERSITY OF HAWAII JOHN A BURNS SCHOOL OF MEDICINE HONOLULU, HI UNIVERSITY OF KANSAS MEDICAL CENTER KANSAS CITY, KS UNIVERSITY OF PENNSYLVANIA PERELMAN SCHOOL OF MEDICINE PHILADELPHIA, PA UNIVERSITY OF PITTSBURGH CANCER INSTITUTE PITTSBURGH, PA UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER HOUSTON, TX VETERANS AFFAIRS GREATER LA HEALTHCARE SYSTEM LOS ANGELES, CA TO CARRY OUT THE RESEARCH DESCRIBED IN THE FOLLOWING EXAMPLES, SIMR AND HOSPITAL, MEDICAL CENTER, OR MEDICAL SCHOOL ENTERED INTO A COOPERATION AGREEMENT PURSUANT TO WHICH THEY AGREED TO ESTABLISH, DEVELOP, ADMINISTER, AND MAINTAIN CONTINUING CLOSE COOPERATION IN THE ACTIVE CONDUCT OF MEDICAL RESEARCH, INCLUDING THROUGH SPECIFIC COOPERATIVE EFFORTS IN THE AREAS OF RESEARCH, SHARING OF INFORMATION, PURSUANT OF JOINT GRANTS, INTERACTION OF STAFF, ADJUNCT/JOINT APPOINTMENTS, AND SHARING OF FACILITIES IN ORDER TO ASSURE THE</p>

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Return Reference	Explanation
PART I, LINE 4	<p>SUCCESS OF THEIR COOPERATIVE RELATIONSHIP, EACH AGREED TO ENGAGE IN EFFECTIVE, COORDINATE D AND ONGOING PLANNING, OVERSIGHT, AND COMMUNICATION, AND TO COMMIT THE NECESSARY RESOURCE S, BOTH HUMAN AND MONETARY, TO SUPPORT, FACILITATE, AND PROMOTE THE COOPERATION -JOINT ME DICAL RESEARCH ON NEW APPROACHES FOR TREATING CRANIOFACIAL DEFECTS THE TRAINOR LAB PERFORM ED JOINT MEDICAL RESEARCH ON NEW APPROACHES FOR TREATING CRANIOFACIAL (HEAD AND FACE) DEFE CTS AND BONE DISEASES IN CONJUNCTION WITH THE UNIVERSITY OF KANSAS MEDICAL CENTER THIS PR OJECT INVESTIGATES THE MOLECULAR AND CELLULAR MECHANISMS OF HOW BONE SIALOPROTEIN MEDIATES BONE FORMATION AND CRANIAL BONE REPAIR THIS ONGOING RESEARCH, SUPPORTED IN PART BY A NIH GRANT AWARDED BY THE NATIONAL INSTITUTE OF DENTAL AND CRANIOFACIAL RESEARCH, REVEALS NEW INFORMATION ON THE BIOLOGICAL FUNCTION OF BONE SIALOPROTEIN AND MAY LEAD TO IMPROVED METHO DS FOR THE TREATMENT OF CRANIAL BONE DEFECTS AND BONE DISEASES THAT INVOLVE BONE SIALOPROT EIN -JOINT MEDICAL RESEARCH ON THE CHARACTERIZATION OF INTESTINAL STEM CELLS THE LI LAB P ERFORMED JOINT MEDICAL RESEARCH ON THE CHARACTERIZATION OF INTESTINAL STEM CELLS WITH COLL ABORATORS AT CINCINNATI CHILDRENS HOSPITAL MEDICAL CENTER, DAVID GEFFEN SCHOOL OF MEDICINE AT UCLA, OREGON HEALTH AND SCIENCE UNIVERSITY SCHOOL OF MEDICINE, STANFORD UNIVERSITY SCH OOL OF MEDICINE, AND UNIVERSITY OF PITTSBURGH CANCER INSTITUTE INTESTINAL DISEASES RANGIN G FROM CROHNS DISEASE TO COLITIS TO CANCER MAY BENEFIT FROM INTESTINAL STEM CELL THERAPIES THIS RESEARCH ADVANCES THE UNDERSTANDING OF THE BIOLOGY OF STEM CELLS THAT RESIDE IN THE INTESTINE AND EXPLORES HOW THEY CAN BE USED TO TREAT AND CURE INTESTINAL DISEASES THIS O NGOING RESEARCH COLLABORATION, SUPPORTED IN PART BY A NIH GRANT AWARDED BY THE NATIONAL IN STITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES, HAS GENERATED FINDINGS THAT HAVE BE EN REPORTED IN MULTIPLE ORIGINAL RESEARCH PUBLICATIONS INCLUDING SOFFERS JHM, HANSEN D, ET AL, 2016 - JOINT MEDICAL RESEARCH ON ORIGINS OF AND TREATMENT FOR OROFACIAL CLEFTING THE TRAINOR LAB PERFORMED JOINT MEDICAL RESEARCH ON CLEFTING OF THE MOUTH AND FACE WITH COLLA BORATORS AT THE UNIVERSITY OF CALIFORNIA DAVIS SCHOOL OF MEDICINE OROFACIAL CLEFTS ARE AM ONG THE MOST COMMON TYPES OF BIRTH DEFECTS MUTATIONS IN THE PAK1IP1 GENE ARE KNOWN TO CAU SE OROFACIAL CLEFTING AND PAK1IP1 MUTANT MOUSE MODELS HAVE BEEN DEVELOPED THIS PROJECT IN VESTIGATES THE MOLECULAR AND CELLULAR ETIOLOGY OF OROFACIAL CLEFTING IN THE MOUSE MODELS W HICH MAY LEAD TO NEW APPROACHES FOR THERAPY AND GENETIC TESTING IN HUMANS THIS ONGOING RE SEARCH IS SUPPORTED IN PART BY A NIH GRANT FROM THE NATIONAL INSTITUTE OF DENTAL AND CRANI OFACIAL RESEARCH -JOINT MEDICAL RESEARCH ON MECHANISMS OF NEURODEGENERATIVE AMYLOID DISEA SES</p>

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Return Reference	Explanation
<p>THE SI LAB PERFORMED JOINT MEDICAL RESEARCH ON THE STRUCTURE AND FUNCTION</p>	<p>OF AMYLOIDS WITH COLLABORATORS AT THE KECK SCHOOL OF MEDICINE AT USC AMYLOID FIBRILS ARE FOUND IN MANY NEURODEGENERATIVE DISEASES BUT THEIR MECHANISM OF TOXICITY IS NOT FULLY UNDERSTOOD AN INCREASING NUMBER OF NONTOXIC, FUNCTIONAL AMYLOIDS HAVE BEEN DESCRIBED, INCLUDING PROTEINS THAT ARE IMPORTANT FOR NEURONAL GROWTH AND LONG-TERM MEMORY DETERMINING THE STRUCTURE OF FUNCTIONAL AMYLOIDS AND HOW THEIR AGGREGATION IS REGULATED PROVIDES A BETTER UNDERSTANDING OF TOXIC AMYLOIDS AND MAY REVEAL NEW APPROACHES TO TREATING NEURODEGENERATIVE AMYLOID DISEASES THIS ONGOING COLLABORATIVE RESEARCH IS SUPPORTED IN PART BY A NIH GRANT FROM THE NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES OTHER US COLLABORATORS INCLUDED CALIFORNIA INSTITUTE OF TECHNOLOGY, CENTER FOR INFORMATION TECHNOLOGY, COLUMBIA UNIVERSITY, EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT OF THE NATIONAL INSTITUTES OF HEALTH, HOWARD HUGHES MEDICAL INSTITUTE, INDIANA UNIVERSITY, JOHNS HOPKINS UNIVERSITY, LIEBER INSTITUTE FOR BRAIN DEVELOPMENT, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, NATIONAL EYE INSTITUTE OF THE NATIONAL INSTITUTES OF HEALTH, PITTSBURGH STATE UNIVERSITY, PRINCETON UNIVERSITY, PURDUE UNIVERSITY, ROCKHURST UNIVERSITY, RUTGERS UNIVERSITY, SCRIPPS RESEARCH INSTITUTE, STANFORD UNIVERSITY, STONY BROOK UNIVERSITY, UNIVERSITY OF CALIFORNIA-DAVIS, UNIVERSITY OF CALIFORNIA-LOS ANGELES, UNIVERSITY OF CALIFORNIA-RIVERSIDE, UNIVERSITY OF CALIFORNIA-SAN DIEGO, UNIVERSITY OF CALIFORNIA-SAN FRANCISCO, UNIVERSITY OF CHICAGO, UNIVERSITY OF KANSAS, UNIVERSITY OF MARYLAND, UNIVERSITY OF MISSOURI-COLUMBIA, UNIVERSITY OF MISSOURI-KANSAS CITY, UNIVERSITY OF PENNSYLVANIA, UNIVERSITY OF RHODE ISLAND, UNIVERSITY OF UTAH, UNIVERSITY OF WASHINGTON, AND UNIVERSITY OF WISCONSIN SIMR COLLABORATED WITH THE FOLLOWING INTERNATIONAL HOSPITALS, MEDICAL CENTERS, AND MEDICAL SCHOOLS IN 2016 ANHUI MEDICAL UNIVERSITY, HEFEI, CHINA, BEIJING INSTITUTE OF RADIATION MEDICINE, BEIJING, CHINA, CHARIT-MEDICAL UNIVERSITY, BERLIN, GERMANY, COLLEGE OF MEDICINE, UNIVERSITY OF SASKATCHEWAN, SASKATOON, CANADA, DEPARTMENT OF EXPERIMENTAL MEDICINE AND SURGERY, UNIVERSITY OF TORINO VERGATA, ITALY, EUROPEAN INSTITUTE OF ONCOLOGY, MILAN, ITALY, KAOHSIUNG MEDICAL UNIVERSITY, KAOHSIUNG, TAIWAN, MANCHESTER ACADEMIC HEALTH SCIENCES CENTRE, MANCHESTER, UK, NATIONAL CENTER OF NEUROLOGY AND PSYCHIATRY, TOKYO, JAPAN, OSAKA UNIVERSITY GRADUATE SCHOOL OF DENTISTRY, OSAKA, JAPAN, SHANGHAI JIAOTONG UNIVERSITY SCHOOL OF MEDICINE, SHANGHAI, CHINA, TSINGHUA UNIVERSITY SCHOOL OF MEDICINE, BEIJING, CHINA, AND YONG LOO LIN SCHOOL OF MEDICINE, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE OTHER INTERNATIONAL COLLABORATORS INCLUDED ACADEMIA SINICA, TAIPEI, TAIWAN, AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH, SINGAPORE, CENTRO DE INVESTIGACION BIOMEDICA EN RED SOBRE ENFERMEDADES RESPIRATORIAS, MADRID, SPAIN, DOSHISHA UNIVERSITY, KYOTO, JAPAN, EVOLUTION, GNOMES, COMPORTEMENT AND ECOLOGIE, CNRS, IIR, UNIVERSITE PARIS-SUD,</p>

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Return Reference	Explanation
THE SI LAB PERFORMED JOINT MEDICAL RESEARCH ON THE STRUCTURE AND FUNCTION	UNIVERSIT PARIS-SACLAY, PARIS, FRANCE, FONDAZIONE ITALIANA PER LA RICERCA SUL CANCRO - INSTITUTE OF MOLECULAR ONCOLOGY, MILAN, ITALY, IMPERIAL COLLEGE, LONDON, UK, INSTITUT NATION AL DE LA RECHERCHE AGRONOMIQUE - CENTRE DE BORDEAUX-AQUITAINE, VILLENAVE D'ORNON, FRANCE, INSTITUTO CAJAL, MADRID, SPAIN, INSTITUTO DE BIOLOGIA MOLECULAR E CELULAR, PORTO, PORTUGAL , INSTITUTO DE QUMICA-FSICA ROCASOLANO, MADRID, SPAIN, INSTITUTO GULBENKIAN DE CINCIA, FUN DAO CALOUSTE GULBENKIAN, OEIRAS, PORTUGAL, INSTITUTO MADRILEO DE ESTUDIOS AVANZADOS EN NAN OCENCIA, MADRID, SPAIN, INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY, BRAGA, PORTUGAL, JAMES COOK UNIVERSITY, TOWNSVILLE, AUSTRALIA, JAPAN SCIENCE AND TECHNOLOGY AGENCY, SAITAM A, JAPAN, LEIBNIZ INSTITUTE FOR NEUROBIOLOGY, MAGDEBURG, GERMANY, MOSCOW STATE UNIVERSITY, MOSCOW, RUSSIAN FEDERATION, NATIONAL BRAIN RESEARCH CENTRE, MANESAR, GURAGON, HARYANA, IN DIA, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE, PONTIFICIA UNIVERSIDAD CATLICA DE CHILE, SANTIAGO, CHILE, PONTIFICIA UNIVERSIDAD CATLICA DEL ECUADOR, QUITO, ECUADOR, RESEARCH INS TITUTE OF MOLECULAR PATHOLOGY, VIENNA, AUSTRALIA, SAN RAFFAELE SCIENTIFIC INSTITUTE, MILAN , ITALY, SUN YAT-SEN UNIVERSITY, GUANGZHOU, GUANGDONG, CHINA, TECHNION-ISRAEL INSTITUTE OF TECHNOLOGY, HAIFA, ISRAEL, THE FRANCIS CRICK INSTITUTE - CLARE HALL LABORATORIES, SOUTH M IMMS, UK, THE FRANCIS CRICK INSTITUTE, LONDON, UK, TONGJI UNIVERSITY, SHANGHAI, CHINA, UNI VERSIDAD BERNARDO O HIGGINS, GENERAL GANA, SANTIAGO, CHILE, UNIVERSIDADE DO PORTO, PORTUGA L, UNIVERSIT DE STRASBOURG, ILLKIRCH-STRASBOURG, FRANCE, UNIVERSITY OF EDINBURGH, EDINBURG H, UK, UNIVERSITY OF LJUBLJANA, SLOVENIA, UNIVERSITY OF MANCHESTER, MANCHESTER, UK, UNIVER SITY OF OXFORD, OXFORD, UK, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA, HEFEI, CHINA, A ND XIAMEN UNIVERSITY, XIAMEN, CHINA

Schedule A Form 990 of 990-E 2016

efile GRAPHIC print - DO NOT PROCESS		As Filed Data -		DLN: 93493223008057	
<div>SCHEDULE D (Form 990)</div> <div>Department of the Treasury Internal Revenue Service</div>		<div>Supplemental Financial Statements</div> <div>▶ 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.</div> <div>Information about Schedule D (Form 990) and its instructions is at www.irs.gov/form990.</div>			<div>OMB No 1545-0047</div> <div>2016</div> <div>Open to Public Inspection</div>
Name of the organization STOWERS INSTITUTE FOR MEDICAL RESEARCH				Employer identification number 20-2993509	
Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts. Complete if the organization answered "Yes" on Form 990, Part IV, line 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 advised funds are the organization's property, subject to the organization's exclusive legal control?				<input type="checkbox"/> Yes <input type="checkbox"/> No
6	Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit?				<input type="checkbox"/> Yes <input type="checkbox"/> No
Part II Conservation Easements. Complete if the organization answered "Yes" on Form 990, Part IV, line 7.					
1	Purpose(s) of conservation easements held by the organization (check all that apply) <input type="checkbox"/> Preservation of land for public use (e g , recreation or education) <input type="checkbox"/> Preservation of an historically important land area <input type="checkbox"/> Protection of natural habitat <input type="checkbox"/> Preservation of a certified historic structure <input type="checkbox"/> Preservation of open space				
2	Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year				
a	Total number of conservation easements	Held at the End of the Year			
b	Total acreage restricted by conservation easements	2a			
c	Number of conservation easements on a certified historic structure included in (a)	2b			
d	Number of conservation easements included in (c) acquired after 8/17/06, and not on a historic structure listed in the National Register	2c			
		2d			
3	Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year ▶				
4	Number of states where property subject to conservation easement is located ▶				
5	Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds?				<input type="checkbox"/> Yes <input type="checkbox"/> No
6	Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year ▶				
7	Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year ▶ \$				
8	Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)?				<input type="checkbox"/> Yes <input type="checkbox"/> No
9	In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement, and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for conservation easements				
Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets. Complete if the organization answered "Yes" on Form 990, Part IV, line 8.					
1a	If the organization elected, as permitted under SFAS 116 (ASC 958), not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide, in Part XIII, the text of the footnote to its financial statements that describes these items				
b	If the organization elected, as permitted under SFAS 116 (ASC 958), to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items				
(i) Revenue included on Form 990, Part VIII, line 1		▶ \$			
(ii) Assets included in Form 990, Part X		▶ \$			
2	If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under SFAS 116 (ASC 958) relating to these items				
a	Revenue included on Form 990, Part VIII, line 1				▶ \$
b	Assets included in Form 990, Part X				▶ \$
For Paperwork Reduction Act Notice, see the Instructions for Form 990.					
			Cat No 52283D	Schedule D (Form 990) 2016	

Part III

Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets (continued)

3

Using the organization's acquisition, accession, and other records, check any of the following that are a significant use of its collection items (check all that apply)

a

☐ Public exhibition

b

☐ Scholarly research

c

☐ Preservation for future generations

d

☐ Loan or exchange programs

e

☐ Other

4

Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIII

5

During the year, did the organization solicit or receive donations of art, historical treasures or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection?

☐ Yes

☐ No

Part IV

Escrow and Custodial Arrangements.

Complete if the organization answered "Yes" on Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

1a

Is the organization an agent, trustee, custodian or other intermediary for contributions or other assets not included on Form 990, Part X?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIII and complete the following table

c

Beginning balance

d

Additions during the year

e

Distributions during the year

f

Ending balance

	Amount
1c	
1d	
1e	
1f	

2a

Did the organization include an amount on Form 990, Part X, line 21, for escrow or custodial account liability?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIII Check here if the explanation has been provided in Part XIII

☐

Part V

Endowment Funds. Complete if the organization answered "Yes" on Form 990, Part IV, line 10.

	(a)Current year	(b)Prior year	(c)Two years back	(d)Three years back	(e)Four years back
1a Beginning of year balance	39,191				
b Contributions	661,216	100,000			
c Net investment earnings, gains, and losses					
d Grants or scholarships					
e Other expenditures for facilities and programs	73,754	60,809			
f Administrative expenses					
g End of year balance	626,653	39,191			

2

Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as

a

Board designated or quasi-endowment

b

Permanent endowment

c

Temporarily restricted endowment

100 000 %

The percentages on lines 2a, 2b, and 2c should equal 100%

3a

Are there endowment funds not in the possession of the organization that are held and administered for the organization by

(i) unrelated organizations

(ii) related organizations

b

If "Yes" on 3a(ii), are the related organizations listed as required on Schedule R?

	Yes	No
3a(i)		No
3a(ii)		No
3b		

4

Describe in Part XIII the intended uses of the organization's endowment funds

Part VI

Land, Buildings, and Equipment.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 11a. See Form 990, Part X, line 10.

Description of property	(a) Cost or other basis (investment)	(b) Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land		3,400,000		3,400,000
b Buildings		227,686,336	96,772,143	130,914,193
c Leasehold improvements				
d Equipment		96,475,275	80,896,829	15,578,446
e Other		557,705		557,705
Total. Add lines 1a through 1e (Column (d) must equal Form 990, Part X, column (B), line 10(c))				150,450,344

Part VII

Investments—Other Securities. Complete if the organization answered 'Yes' on Form 990, Part IV, line 11b.
See Form 990, Part X, line 12.

(a) Description of security or category (including name of security)	(b) Book value	(c) Method of valuation Cost or end-of-year market value
(1) Financial derivatives		
(2) Closely-held equity interests		
(3) Other _____		
(A)		
(B)		
(C)		
(D)		
(E)		
(F)		
(G)		
(H)		
Total. (Column (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 market value
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Column (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 value
(1) ANNUITY RECEIVABLE	100,372,884
(2) OTHER RECEIVABLES	25,617
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col (B) line 15) ▶	100,398,501

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 value
(1) Federal income taxes	0
ADVANCES FROM AFFILIATES	7,630,159
ANNUITY PAYABLE	97,811,837
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col (B) line 25) ▶	105,441,996

2. Liability for uncertain tax positions In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FIN 48 (ASC 740) Check here if the text of the footnote has been provided in Part XIII

☒

Part XI Reconciliation of Revenue per Audited Financial Statements With Revenue per Return

Complete if the organization answered 'Yes' on Form 990, Part IV, line 12a.

1	Total revenue, gains, and other support per audited financial statements	1	
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12		
a	Net unrealized gains (losses) on investments	2a	
b	Donated services and use of facilities	2b	
c	Recoveries of prior year grants	2c	
d	Other (Describe in Part XIII)	2d	
e	Add lines 2a through 2d	2e	
3	Subtract line 2e from line 1	3	
4	Amounts included on Form 990, Part VIII, line 12, but not on line 1		
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a	
b	Other (Describe in Part XIII)	4b	
c	Add lines 4a and 4b	4c	
5	Total revenue Add lines 3 and 4c . (This must equal Form 990, Part I, line 12)	5	

Part XII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 12a.

1	Total expenses and losses per audited financial statements	1	
2	Amounts included on line 1 but not on Form 990, Part IX, line 25		
a	Donated services and use of facilities	2a	
b	Prior year adjustments	2b	
c	Other losses	2c	
d	Other (Describe in Part XIII)	2d	
e	Add lines 2a through 2d	2e	
3	Subtract line 2e from line 1	3	
4	Amounts included on Form 990, Part IX, line 25, but not on line 1 :		
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a	
b	Other (Describe in Part XIII)	4b	
c	Add lines 4a and 4b	4c	
5	Total expenses Add lines 3 and 4c . (This must equal Form 990, Part I, line 18)	5	

Part XIII Supplemental Information

Provide 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 additional information.

Return Reference	Explanation
See Additional Data Table	

Part XIII **Supplemental Information** *(continued)*

Return Reference	Explanation

Additional Data

Software ID:
Software Version:
EIN: 20-2993509
Name: STOWERS INSTITUTE FOR MEDICAL RESEARCH

Supplemental Information

Return Reference	Explanation
PART X, LINE 2	FIN 48 FINANCIAL STATEMENT FOOTNOTE FROM THE CONSOLIDATED STATEMENTS OF STOWERS INSTITUTE FOR MEDICAL RESEARCH (THE INSTITUTE) IS AS FOLLOWS THE INSTITUTE RECOGNIZES THE EFFECT OF INCOME TAX POSITIONS ONLY IF THOSE POSITIONS ARE MORE LIKELY THAN NOT OF BEING SUSTAINED RECOGNIZED INCOME TAX POSITIONS ARE MEASURED AT THE LARGEST AMOUNT THAT IS GREATER THAN 50% LIKELY OF BEING REALIZED

Schedule I
(Form 990)

Department of the
Treasury
Internal Revenue Service

Name of the organization
STOWERS INSTITUTE FOR MEDICAL RESEARCH

Employer identification number
20-2993509

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

Complete if the organization answered "Yes," on Form 990, Part IV, line 21 or 22.
▶ Attach to Form 990.
▶ Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047

2016

Open to Public
Inspection

Part I

General Information on Grants 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 criteria used to award the grants or assistance?

☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds 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 recipient that received more than \$5,000 Part II can be duplicated if additional space is needed

(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
(1) THE GRADUATE SCHOOL OF SIMR 1000 EAST 50TH STREET KANSAS CITY, MO 64110	46-4588696	501(C)(3)		1,200,000	FMV	F I SECURITIES	SEE PART IV

- 2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table

▶ 1
- 3 Enter total number of other organizations listed in the line 1 table

▶

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

(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 non-cash assistance
(1) STIPENDS/FELLOWSHIPS	45	996,854	20,944	FMV	SEE PART IV
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					
(7)					

Part IV **Supplemental Information.** Provide the information required in Part I, line 2, Part III, column (b), and any other additional information.

Return Reference	Explanation
SCHEDULE I, PART I, LINE 2	SIMR PROVIDES FELLOWSHIP STIPENDS AND NONCASH ASSISTANCE IN THE FORM OF HOUSING, BOOKS AND COMPUTERS TO RESEARCHERS DURING THEIR PERIOD OF STUDY AND RESEARCH
PART II, LINE 1	SIMR CONTRIBUTES ANNUAL FUNDING TO FINANCE THE GRADUATE SCHOOL OF THE STOWERS INSTITUTE FOR MEDICAL RESEARCH ("GSSIMR") GSSIMR'S EXEMPT PURPOSE IS TO PROVIDE GRADUATE EDUCATION THAT WILL PREPARE SCHOLARS FOR SCIENTIFIC RESEARCH IN THE BIOLOGICAL SCIENCES GSSIMR OFFERS A RESEARCH-BASED PH D DEGREE IN BIOLOGY AND OTHER INSTRUCTION PROGRAMS

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. ▶ Information about Schedule J (Form 990) and its instructions is at www.irs.gov/form990.	OMB No 1545-0047 <div style="font-size: 2em; font-weight: bold; text-align: center;">2016</div> <div style="background-color: black; color: white; text-align: center; padding: 5px;"> Open to Public Inspection </div>	
	Department of the Treasury Internal Revenue Service	Name of the organization STOWERS INSTITUTE FOR MEDICAL RESEARCH	Employer identification number 20-2993509

Part I 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			
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> First-class or charter travel <input type="checkbox"/> Travel for companions <input checked="" type="checkbox"/> Tax indemnification and gross-up payments <input type="checkbox"/> Discretionary spending account </div> <div> <input type="checkbox"/> Housing allowance or residence for personal use <input type="checkbox"/> Payments for business use of personal residence <input type="checkbox"/> Health or social club dues or initiation fees <input type="checkbox"/> Personal services (e.g., maid, chauffeur, chef) </div> </div>			
b If any of the boxes in 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	Yes	
2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, officers, including the CEO/Executive Director, regarding the items checked in line 1a?	2	Yes	
3 Indicate which, if any, of the following the filing 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			
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Compensation committee <input checked="" type="checkbox"/> Independent compensation consultant <input type="checkbox"/> Form 990 of other organizations </div> <div> <input checked="" type="checkbox"/> Written employment contract <input checked="" type="checkbox"/> Compensation survey or study <input checked="" type="checkbox"/> Approval by the board or compensation committee </div> </div>			
4 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		No
b Participate in, or receive payment from, a supplemental nonqualified retirement plan?	4b		No
c Participate in, or receive payment from, an equity-based compensation arrangement? If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III	4c		No
Only 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.			
5 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			
a The organization?	5a		No
b Any related organization? If "Yes," on line 5a or 5b, describe in Part III	5b		No
6 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			
a The organization?	6a		No
b Any related organization? If "Yes," on line 6a or 6b, describe in Part III	6b		No
7 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any non-fixed payments not described in lines 5 and 6? If "Yes," describe in Part III	7		No
8 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III	8		No
9 If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?	9		

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 are not 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.

(A) Name and Title	(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column (B) reported as deferred on prior Form 990
	(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
See Additional Data Table							

Part III Supplemental Information

Provide the information, explanation, or descriptions required for 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.

Return Reference	Explanation
PART I, LINE 1A	SIMR HAS WRITTEN EMPLOYMENT CONTRACTS WITH WILLIAM B. NEAVES, PRESIDENT EMERITUS, AND DAVID M. CHAO, PRESIDENT, WHICH PROVIDES FOR TAXABLE TERM LIFE BENEFITS AND FOR THE EXECUTIVES TO RECEIVE TAX GROSS-UP PAYMENTS SUFFICIENT TO COVER THE TAXES ON THE BENEFITS.
PART I, LINE 1B	SIMR PROVIDED THE BENEFITS DESCRIBED IN RESPONSE TO LINE 1A PURSUANT TO WRITTEN EMPLOYMENT CONTRACTS THAT WERE APPROVED BY SIMR'S GOVERNING BOARD. SEE RESPONSE TO FORM 990, PART VI, SECTION B, LINE 15, FOR ADDITIONAL PROCESSES RELATED TO DETERMINING EXECUTIVE COMPENSATION.

Additional Data

Software ID:
Software Version:
EIN: 20-2993509
Name: STOWERS INSTITUTE FOR MEDICAL RESEARCH

Form 990, Schedule J, Part II - Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

(A) Name and Title		(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column (B) reported as deferred on prior Form 990
		(i) Base Compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
1DAVID A WELTE DIRECTOR/SECRETARY	(i)	-----	-----	-----	0	0	0	0
	(ii)	1,197,002	-----	80,172	39,750	20,933	1,337,857	0
1RODERICK L STURGEON DIRECTOR/CFO	(i)	-----	-----	-----	0	0	0	0
	(ii)	1,396,183	-----	93,123	39,750	16,752	1,545,808	0
2WILLIAM B NEAVES DIRECTOR/PRESIDENT EMERITUS	(i)	324,379	-----	9,685	39,750	14,811	388,625	0
	(ii)	-----	-----	-----	0	0	0	0
3DAVID M CHAO DIRECTOR/PRESIDENT/CEO	(i)	1,455,921	-----	6,876	39,750	942	1,503,489	0
	(ii)	-----	-----	-----	0	0	0	0
4ROBERT E KRUMLAUF DIRECTOR/SCIENTIFIC DIRECTOR	(i)	515,692	-----	4,191	39,750	19,947	579,580	0
	(ii)	-----	-----	-----	0	0	0	0
5RONALD C CONAWAY INVESTIGATOR	(i)	284,799	-----	3,564	39,750	942	329,055	0
	(ii)	-----	-----	-----	0	0	0	0
6JOAN W CONAWAY INVESTIGATOR	(i)	281,817	-----	3,564	39,750	15,484	340,615	0
	(ii)	-----	-----	-----	0	0	0	0
7JERRY L WORKMAN INVESTIGATOR	(i)	341,321	-----	2,322	39,750	8,483	391,876	0
	(ii)	-----	-----	-----	0	0	0	0
8R SCOTT HAWLEY INVESTIGATOR	(i)	338,876	-----	3,564	39,750	14,051	396,241	0
	(ii)	-----	-----	-----	0	0	0	0
9RICHARD W BROWN DIRECTOR/CHAIR	(i)	-----	-----	-----	0	0	0	0
	(ii)	2,174,882	-----	32,086	39,750	14,053	2,260,771	0
10LINHENG LI INVESTIGATOR	(i)	250,124	-----	2,322	37,593	1,442	291,481	0
	(ii)	-----	-----	-----	0	0	0	0
11ALBERZINE FREEMAN DIRECTOR/EVP OF ADMINISTRATION	(i)	-----	-----	-----	0	0	0	0
	(ii)	393,166	-----	4,944	39,750	10,820	448,680	0
12BRENT KREIDER CHIEF OPERATING OFFICER	(i)	-----	-----	-----	0	0	0	0
	(ii)	564,557	-----	1,242	0	18,233	584,032	0

Schedule L
(Form 990 or 990-EZ)

Department of the Treasury
Internal Revenue Service

Transactions with Interested Persons

▶ Complete if the organization answered
"Yes" on Form 990, Part IV, lines 25a, 25b, 26, 27, 28a, 28b, or 28c,
or Form 990-EZ, Part V, line 38a or 40b.
▶ Attach to Form 990 or Form 990-EZ.
▶ Information about Schedule L (Form 990 or 990-EZ) and its instructions is at
www.irs.gov/form990.

OMB No 1545-0047

2016

Open to Public
Inspection

Name of the organization
STOWERS INSTITUTE FOR MEDICAL RESEARCH

Employer identification number
20-2993509

Part I Excess Benefit Transactions (section 501(c)(3), section 501(c)(4), and 501(c)(29) organizations only)
Complete if the organization answered "Yes" on Form 990, Part IV, line 25a or 25b, or Form 990-EZ, Part V, line 40b

1	(a) Name of disqualified person	(b) Relationship between disqualified person and organization	(c) Description of transaction	(d) Corrected?	
				Yes	No

2 Enter the amount of tax incurred by organization managers or disqualified persons during the year under section 4958 ▶ \$

3 Enter the amount of tax, if any, on line 2, above, reimbursed by the organization ▶ \$

Part II Loans to and/or From Interested Persons.
Complete if the organization answered "Yes" on Form 990-EZ, Part V, line 38a, or Form 990, Part IV, line 26, or if the organization reported an amount on Form 990, Part X, line 5, 6, or 22

(a) Name of interested person	(b) Relationship with organization	(c) Purpose of loan	(d) Loan to or from the organization?		(e) Original principal amount	(f) Balance due	(g) In default?		(h) Approved by board or committee?		(i) Written agreement?	
			To	From			Yes	No	Yes	No	Yes	No
Total						▶ \$						

Part III Grants or Assistance Benefiting Interested Persons.
Complete if the organization answered "Yes" on Form 990, Part IV, line 27.

(a) Name of interested person	(b) Relationship between interested person and the organization	(c) Amount of assistance	(d) Type of assistance	(e) Purpose of assistance

Part IV Business Transactions Involving Interested Persons.

Complete if the organization answered "Yes" on Form 990, Part IV, line 28a, 28b, or 28c.

(a) Name of interested person	(b) Relationship between interested person and the organization	(c) Amount of transaction	(d) Description of transaction	(e) Sharing of organization's revenues?	
				Yes	No
(1) JULIA ZEITLINGER PhD	SEE PART V	141,390	EMPLOYEE OF SIMR		No
(2) LEANNE WIEDEMANN PhD	SEE PART V	211,813	EMPLOYEE OF SIMR		No

Part V Supplemental Information

Provide additional information for responses to questions on Schedule L (see instructions)

Return Reference	Explanation
PART IV, LINE (1) & (2)	JULIA ZEITLINGER, PH D, IS THE SPOUSE OF DAVID M CHAO, PRESIDENT OF SIMR MS ZEITLINGER IS AN ASSOCIATE INVESTIGATOR AT SIMR MS ZEITLINGER'S PREVIOUS EMPLOYMENT BEFORE SIMR WAS WITH THE WHITEHEAD INSTITUTE FOR MEDICAL RESEARCH WHERE SHE WAS THE RECIPIENT OF A PREDOCTORAL FELLOWSHIP FROM THE HUMAN FRONTIER SCIENCE PROGRAM LEANNE WIEDMANN, PH D, IS THE SPOUSE OF ROBERT KRUMLAUF, SCIENTIFIC DIRECTOR OF SIMR MS WIEDEMANN PERFORMS INDEPENDENT SCIENCE RESEARCH AT SIMR AND IS CONCURRENTLY A PROFESSOR AT THE UNIVERSITY OF KANSAS MEDICAL CENTER IN THE DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE

SCHEDULE M
(Form 990)

Department of the Treasury
Internal Revenue Service

Noncash Contributions

►Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.
► Attach to Form 990.
►Information about Schedule M (Form 990) and its instructions is at www.irs.gov/form990

OMB No 1545-0047

2016

Open to Public Inspection

Name of the organization
STOWERS INSTITUTE FOR MEDICAL RESEARCH

Employer identification number
20-2993509

Part I

Types of Property

	(a) Check if applicable	(b) Number of contributions or items contributed	(c) Noncash contribution amounts reported on Form 990, Part VIII, line 1g	(d) Method of determining noncash contribution amounts
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	X	2	60,100,000	FAIR MARKET VALUE
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 organization during the tax year for contributions for which the organization completed Form 8283, Part IV, Donee Acknowledgement			29	

30a During the year, did the organization receive by contribution any property reported in Part I, lines 1 through 28, that
it must hold for at least three years from the date of the initial contribution, and which is not required to be used
for exempt purposes for the entire holding period?

30a

No

b If "Yes," describe the arrangement in Part II

31 Does the organization have a gift acceptance policy that requires the review of any non-standard contributions?

31

Yes

32a Does the organization hire or use third parties or related organizations to solicit, process, or sell noncash
contributions?

32a

No

b If "Yes," describe in Part II

33 If the organization did not report an amount in column (c) for a type of property for which column (a) is checked,
describe in Part II

Part II **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.

Return Reference	Explanation
PART I, COLUMN B	THE AMOUNTS SHOWN IN PART I, COLUMN (B) FOR "NUMBER OF CONTRIBUTIONS" REPRESENTS THE TOTAL NUMBER OF CONTRIBUTIONS AND NOT NECESSARILY THE TOTAL NUMBER OF ITEMS CONTRIBUTED

SCHEDULE O (Form 990 or 990-EZ) <small>Department of the Treasury Internal Revenue Service</small>	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. ▶ Information about Schedule O (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990 .	<small>OMB No 1545-0047</small> 2016 Open to Public Inspection
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Name of the organization STOWERS INSTITUTE FOR MEDICAL RESEARCH	Employer identification number 20-2993509
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990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART III, LINE 1	THE STOWERS INSTITUTE FOR MEDICAL RESEARCH PERFORMS MEDICAL RESEARCH IN THE PUBLIC INTEREST WITH THE GOAL OF EXPANDING OUR UNDERSTANDING OF FUNDAMENTAL PROCESSES IN LIVING CELLS AND IMPROVING LIFE'S QUALITY THROUGH INNOVATIVE APPROACHES TO THE CAUSES, TREATMENT, AND PREVENTION OF DISEASE

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART III, LINE 4	SIMR'S ACCOMPLISHMENTS ARE DESCRIBED AT END OF SCHEDULE O

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, LINE 2	VIRGINIA G STOWERS, JONATHAN THOMAS, RICHARD W BROWN, DAVID A WELTE, WILLIAM B NEAVES, DAVID M CHAO AND RODERICK L STURGEON, ALL DIRECTORS OF SIMR, HAVE A BUSINESS RELATIONSHIP JONATHAN THOMAS, RICHARD W BROWN, WILLIAM B NEAVES, DAVID A WELTE, DAVID M CHAO, RODERICK L STURGEON, BRENT KREIDER, AND ALBERZINE FREEMAN, ALL DIRECTORS OF SIMR, HAVE A BUSINESS RELATIONSHIP

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, LINE 11B	THE DATA AND INFORMATION NECESSARY TO PREPARE SIMR'S FORM 990 WAS COMPILED BY SIMR'S ACCOUNTING DEPARTMENT AND THEN REVIEWED BY OUR TAX ATTORNEY AT BRYAN CAVE, LLP PRICEWATERHOUSECOOPERS ("PWC"). OUR EXTERNAL TAX PREPARERS, USE THIS INFORMATION TO PREPARE THE FORM 990 THE COMPLETED FORM 990, INCLUDING REQUIRED SCHEDULES, IS REVIEWED BY THE OFFICERS OF SIMR BEFORE IT IS FILED WITH THE IRS AFTER THE PREPARATION AND REVIEW PROCESS DESCRIBED ABOVE, THE FORM 990, INCLUDING REQUIRED SCHEDULES, IS PROVIDED TO EACH VOTING MEMBER OF THE ORGANIZATION'S BOARD BEFORE IT IS FILED WITH THE IRS

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Return Reference	Explanation
FORM 990, PART VI, LINE 12C	SIMR HAS ADOPTED A "CONFLICTS OF INTEREST AND DIRECTOR INDEPENDENCE POLICY" EACH DIRECTOR, OFFICER, AND OTHER PERSON WHO IS IN A POSITION TO EXERCISE SUBSTANTIAL INFLUENCE OVER DECISIONS OF SIMR ARE REQUIRED TO ANNUALLY COMPLETE AND SIGN A DISCLOSURE STATEMENT THAT IS PART OF THE POLICY A COVERED PERSON MUST ALSO DISCLOSE THE EXISTENCE OF A POTENTIAL CONFLICT AND ALL MATERIAL FACTS TO THE GOVERNING BOARD AS SOON AS THE PERSON HAS KNOWLEDGE THAT A POTENTIAL CONFLICT MIGHT EXIST SIMR CONDUCTS PERIODIC AND ADHOC REVIEWS OF TRANSACTIONS AND AGREEMENTS TO INSURE THAT IT ENGAGES ONLY IN ACTIVITIES THAT ARE CONSISTENT WITH ITS TAX-EXEMPT PURPOSE

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Return Reference	Explanation
FORM 990, PART VI, LINES 15A	THE COMPENSATION FOR DAVID CHAO, THE PRESIDENT AND CEO OF SIMR, WAS ESTABLISHED PURSUANT TO THE PROCEDURES OF TREAS REG SECTION 53 4958-6, INCLUDING (1) REVIEW AND APPROVAL BY SIMRS COMPENSATION COMMITTEE COMPRISED OF INDEPENDENT PERSONS, (2) RELYING ON COMPARABILITY DATA, INCLUDING DATA PREPARED BY A NATIONALLY KNOWN COMPENSATION CONSULTANT REGARDING COMPARABLE SALARY AND BENEFITS FOR SIMILARLY QUALIFIED PERSONS IN FUNCTIONALLY COMPARABLE POSITIONS AT SIMILARLY SITUATED ORGANIZATIONS, AND (3) CONTEMPORANEOUS DOCUMENTATION AND RECORD KEEPING OF THE DELIBERATION AND DECISIONS REGARDING THE COMPENSATION ARRANGEMENT THIS PROCESS WAS LAST UNDERTAKEN IN 2016

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Return Reference	Explanation
FORM 990, PART VI, LINE 19	SIMR'S GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY, AND FINANCIAL STATEMENTS ARE AVAILABLE ON REQUEST

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Return Reference	Explanation
FORM 990, PART VII, SECTION A, COLUMN B	DAVID M CHAO, OFFICER OF SIMR, AND R SCOTT HAWLEY, EMPLOYEE OF SIMR, ALSO PERFORM SUPPORT SERVICES FOR ONE OR MORE OF THE RELATED ORGANIZATIONS DISCLOSED IN SCHEDULE R THESE SERVICES ARE PERFORMED IN THEIR ROLE AS SIMR EMPLOYEES AND SIMR IS REIMBURSED BY THE RELATED ORGANIZATIONS FORM 990, PART VII, SECTION B SIMR RECEIVES INVESTMENT MANAGEMENT SERVICES FROM AMERICAN CENTURY INVESTMENTS (ACI) ACI IS A WHOLLY OWNED SUBSIDIARY OF AMERICAN CENTURY COMPANIES, INC (ACCI) IN SELECTING ACI TO MANAGE ITS LIQUID INVESTMENTS, SIMR NOT ONLY SELECTED A HIGH QUALITY MUTUAL FUND COMPANY WITH AN OUTSTANDING TRACK RECORD, BUT ALSO PLACED ITS LIQUID INVESTMENTS IN A COMPANY IN WHICH IT OWNS STOCK AND RECEIVES DIVIDENDS SIMR PAYS ACI THE SAME ADMINISTRATIVE FEES FOR THESE SERVICES AS ANY ARMS-LENGTH INVESTOR THOSE INVESTMENT FEES FOR A SHARED INVESTMENT POOL ARE PAID BY ITS SUPPORTING ORGANIZATION, SRM

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Return Reference	Explanation
FORM 990, PART XI, LINE 9	OTHER CHANGES IN NET ASSETS INCLUDE THE FOLLOWING CHANGE IN ANNUITY RECEIVABLE, NET (323,121)

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Return Reference	Explanation
FORM 990, PART III, LINE 4a	<p>2016 PROGRAM SERVICE ACCOMPLISHMENTS THE STOWERS INSTITUTE FOR MEDICAL RESEARCH (SIMR) IS A PRIVATE, NONPROFIT MEDICAL RESEARCH ORGANIZATION SIMR WAS FOUNDED IN 1994 BY JIM AND VIRGINIA STOWERS, WHO EACH SURVIVED A BOUT WITH CANCER AND SUBSEQUENTLY DEDICATED THEIR FORTUNE TO SUPPORTING BASIC RESEARCH IN CELL AND MOLECULAR BIOLOGY THAT WILL PROVIDE LONG-TERM SOLUTIONS TO GENE-BASED DISEASES SIMR CONDUCTS BASIC BIOMEDICAL RESEARCH IN THE PUBLIC INTEREST THAT WILL ULTIMATELY PROVIDE A GREATER UNDERSTANDING OF THE GENES AND PROTEINS THAT CONTROL HOW CELLS IN OUR BODIES MULTIPLY, FORM TISSUES, AND DIE STUDYING THE BASIC BIOLOGY OF CELLS ENABLES SCIENTISTS TO DISCOVER HOW GENES CAUSE MANY DISEASES, INCLUDING CANCER, BIRTH DEFECTS, AND DEMENTIA HISTORY HAS SHOWN THAT BASIC MEDICAL RESEARCH IS OFTEN A KEY FIRST STEP IN THE DEVELOPMENT OF NEW TREATMENTS, CURES, AND PREVENTIONS FOR MANY HUMAN DISEASES 2016 NOTABLE RESEARCH RESULTS IN 2016, SIMR RESEARCH TEAMS MADE DISCOVERIES MERITING PUBLICATION IN LEADING PEER-REVIEWED SCIENTIFIC JOURNALS 51 ORIGINAL RESEARCH PAPERS IN ALL SIMR RESEARCH TEAMS ALSO PRODUCED 34 OTHER PUBLICATIONS INCLUDING REVIEWS, COMMENTARIES, BOOK CHAPTERS, AND BOOKS SOME OF THE HIGHLIGHTS AMONG PAPERS PUBLISHED IN 2016 INCLUDE THE HAWLEY LAB GENERATED A WHOLE-GENOME MAP OF FRUIT FLY GENETIC RECOMBINATION DURING MEIOSIS, WHICH IS THE PROCESS OF CELL DIVISION THAT GIVES RISE TO REPRODUCTIVE CELLS DURING THIS PROCESS, CHROMOSOMES ARE COPIED AND PAIRED UP TO SWAP BITS OF THEIR DNA BEFORE BEING SEPARATED TO CREATE EGGS AND SPERM THE HAWLEY LAB AND COLLABORATORS REPORTED THE MAPPING OF THESE RECOMBINATION EVENTS ACROSS THE WHOLE GENOME OF A SINGLE ORGANISM, THE FRUIT FLY DROSOPHILA MELANOGASTER THEY FOUND THAT SEPARATE MECHANISMS POSITION THE TWO MAIN KINDS OF RECOMBINATION EVENTS, CROSSOVERS AND NON-CROSSOVERS WITHOUT SUCH GENETIC RECOMBINATION, CELLS COULD END UP WITH THE WRONG NUMBER OF CHROMOSOMES, A MAJOR CAUSE OF MISCARRIAGES AND BIRTH DEFECTS IN HUMANS THIS PAPER WAS PUBLISHED IN THE MAY 2016 ISSUE OF GENETICS THE TRAIOR LAB FOUND SIMILARITIES AMONG THREE DISTINCT GENE MUTATIONS OF TREACHER COLLINS SYNDROME (TCS), A RARE CONGENITAL DISORDER THAT AFFECTS THE HEAD AND FACE IN AN ESTIMATED 1 IN 50,000 LIVE BIRTHS IN ADDITION TO FACIAL DEFORMITIES, CHILDREN AFFECTED BY TCS OFTEN HAVE HEARING LOSS, VISION COMPLICATIONS AND RESPIRATORY PROBLEMS DUE TO AIRWAY MALFORMATIONS THREE GENE MUTATIONS HAVE BEEN IDENTIFIED AS CAUSING TCS IN THIS STUDY, RESEARCHERS INVESTIGATED THE ZEBRAFISH COUNTERPARTS OF THE TWO HUMAN MUTATIONS THAT WERE IDENTIFIED AS CAUSING TCS IN A 2011 STUDY OF A SMALL GROUP OF PATIENTS WHO HAD BEEN DIAGNOSED WITH TCS BUT WHO DID NOT HAVE THE MOST COMMON GENE MUTATION IN TCS IN ZEBRAFISH MODELS, THE RESEARCHERS FOUND THAT THE TWO MORE RECENTLY IDENTIFIED MUTATIONS DISRUPTED THE SAME GROUP OF CELLS THE NEURAL CREST CELLS THAT FORM THE CRANIOFACIAL SKELETON AS THE MOST COMMON GENE MUTATION THESE COMMONALITIES</p>

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Return Reference	Explanation
FORM 990, PART III, LINE 4a	<p>HOPEFULLY WILL HELP ACCELERATE THE PACE OF FUTURE RESEARCH ON TCS. THIS RESEARCH WAS PUBLISHED JULY 22, 2016, IN PLOS GENETICS. IN RELATED RESEARCH, THE TRAINOR LAB AND COLLABORATORS REPORTED THAT CERTAIN CELLS THAT GIVE RISE TO NEURAL CREST CELLS SHOWED A MARKED SENSITIVITY TO OXIDATIVE STRESS. THEY DETERMINED THAT MATERNAL ANTIOXIDANT SUPPLEMENTATION COULD LESSEN OR PREVENT CRANIOFACIAL ABNORMALITIES IN THE TCS MOUSE MODEL. THESE FINDINGS SUGGEST THAT MATERNAL ANTIOXIDANT SUPPLEMENTATION MAY BE A POSSIBLE AVENUE FOR CLINICAL PREVENTION OF TCS. THIS REPORT WAS PUBLISHED JANUARY 21, 2016, IN NATURE COMMUNICATIONS. THE TRAINOR LAB ALSO FOUND A WAY TO USE MICE TO STUDY HIGH-ARCHED PALATE, A DISORDER IN WHICH THE ROOF OF THE MOUTH IS ODDLY HIGH AND STEEP. THE MICE MIMIC TCS IN HUMANS, OF WHICH HIGH-ARCHED PALATE IS A FEATURE. TO HELP THIS RESEARCH MOVE FORWARD, THE TRAINOR LAB RESEARCHERS AND COLLABORATORS DEVELOPED A CONSISTENT, MEASUREMENT-BASED DEFINITION OF HIGH-ARCHED PALATE, ONE THAT SCIENTISTS COULD USE ACROSS ALL MOUSE MODELS. THE METHODOLOGY COULD EXPAND RESEARCH INTO THE GENETIC ASPECTS OF HIGH-ARCHED PALATE. THIS WORK WAS PUBLISHED JULY 15, 2016, IN DEVELOPMENTAL BIOLOGY. THE SNCHEZ ALVARADO LAB DISCOVERED THAT A KEY MOLECULAR SIGNAL IN CERTAIN FLATWORM CELLS SHAPES REGENERATION OF THE ORGANISM. THE FRESHWATER FLATWORM KNOWN AS PLANARIA CAN SURVIVE DECAPITATION OR EVEN BEING CUT INTO MANY PIECES. THE WORMS REMARKABLE ABILITY TO FULLY REGENERATE FROM TINY REMNANTS OF TISSUE IS DUE TO A SPECIAL POPULATION OF ADULT STEM CELLS KNOWN AS NEOBLASTS. THE RESEARCHERS DISCOVERED THAT A MOLECULE CALLED EGFR-3 IS NECESSARY FOR NEOBLASTS TO REGENERATE, AND MIGHT CONTROL THE WAY THESE CELLS DIVIDE AND DIFFERENTIATE IN RESPONSE TO OTHERWISE LETHAL DOSES OF RADIATION. THE FINDING HAS IMPORTANT IMPLICATIONS FOR ADVANCING REGENERATIVE MEDICINE AND FOR DEVELOPING MORE EFFECTIVE CANCER THERAPIES. THIS ARTICLE WAS PUBLISHED AUGUST 22, 2016, IN DEVELOPMENTAL CELL. IN RELATED RESEARCH, THE SNCHEZ ALVARADO LAB DISCOVERED THAT SHIFTS IN THE MICROBIOME OF THE FLATWORM IMPACT TISSUE REPAIR AND REGENERATION. SHIFTS IN THE BALANCE OF THE HUMAN MICROBIOME, THE MICROBIAL COMMUNITIES THAT CALL OUR BODIES HOME UNDERLIE PERSISTENT INFLAMMATORY DISORDERS, CHRONIC NON-HEALING WOUNDS, AND SCAR FORMATION. THE RESEARCHERS EXPLORED THE INTERPLAY BETWEEN THE MICROBIOME, HOST IMMUNITY, TISSUE REPAIR, AND REGENERATION IN THE FLATWORM. THEY FOUND THAT AILING FLATWORMS EXPERIENCE A DRAMATIC EXPANSION OF PATHOGENIC PROTEOBACTERIA THAT CLOSELY MIRRORS CHANGES ASSOCIATED WITH HUMAN AILMENTS. THIS BACTERIAL INFECTION STIMULATED THE FLATWORMS IMMUNE RESPONSE, IMPEDING ITS REGENERATION CAPABILITIES. THE STUDY, PUBLISHED JULY 21, 2016, IN ELIFE, PROVIDES A VALUABLE ANIMAL MODEL FOR UNDERSTANDING HOST-MICROBIOME INTERACTIONS AND FOR DESIGNING THERAPIES THAT MAY ENHANCE HEALING IN HUMANS. THE SI LAB DISCOVERED EVIDENCE FOR SPECIFIC MOLECULAR CHANGES NECESSARY FOR THE FORMATION, STORAGE, AND R</p>

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Return Reference	Explanation
FORM 990, PART III, LINE 4a	<p>ETRIEVAL OF MEMORIES USING MOLECULAR TOOLS TO ALTER THE PRION-LIKE PROTEIN ORB2 IN FRUIT FLIES, THE RESEARCHERS FOUND EVIDENCE THAT SUGGESTS ORB2 SERVES AS PART OF A MEMORY STAMP IN THE BRAIN BY SERVING AS A PHYSICAL SUBSTRATE FOR MEMORY STRENGTH AND RETENTION THIS WO RK PROVIDES INSIGHT ON HOW MEMORIES ARE MADE AND RETAINED IN THE FRUIT FLY BRAIN HUMANS H AVE A COUNTERPART TO THE FRUIT FLY ORB2 PROTEIN, WHICH SUGGESTS SIMILAR MECHANISMS MAY BE INVOLVED IN HUMAN MEMORY THE FINDINGS WERE PUBLISHED DECEMBER 5, 2016, IN CURRENT BIOLOGY THE ZEITLINGER LAB EXAMINED HOW REGIONS OF DNA CALLED ENHANCERS PERFORM THEIR ROLES IN G ENE EXPRESSION GENE EXPRESSION IS THE PROCESS OF TURNING GENES ON OR OFF, AND ITS ESSENTI AL FOR CREATING SPECIFIC CELLS IN THE BODY ENHANCERS INCREASE THE LIKELIHOOD OF GENE EXPR ESSION, BUT THEY ARE LOCKED IN AN ONGOING BATTLE BETWEEN ACTIVATION AND REPRESSION THE RE SEARCHERS FOUND THAT A CRUCIAL BALANCE BETWEEN THE TWO ACTIONS IS MAINTAINED AT THE LEVEL OF HISTONE MODIFICATIONS, AROUND WHICH DNA ENHANCERS ARE WRAPPED SUCH INSIGHT COULD PROVI DE UNDERSTANDING INTO DISEASES AND DEVELOPMENTAL DISORDERS CAUSED BY DNA ENHANCER MUTATION S, AND GIVE US A GLIMPSE INTO THE GENETIC FORCES THAT HAVE CONTRIBUTED TO HUMAN EVOLUTION THE REPORT APPEARED NOVEMBER 14, 2016, AS AN ADVANCE ONLINE PUBLICATION IN GENOME RESEARC H COMPREHENSIVE LISTS OF 2016 ORIGINAL RESEARCH PAPERS, REVIEWS, COMMENTARIES, CHAPTERS, AND BOOKS ORIGINAL RESEARCH PAPERS 1 PATHOGENIC SHIFTS IN ENDOGENOUS MICROBIOTA IMPEDE TI SSUE REGENERATION VIA DISTINCT ACTIVATION OF TAK1/MKK/P38 ARNOLD CP, MERRYMAN MS, HARRIS- ARNOLD A, MCKINNEY SA, SEIDEL CW, LOETHEN S, PROCTOR KN, GUO L, SANCHEZ ALVARADO A ELIFE 2016,5 E16793 DOI 16710 17554/ELIFE 16793 2 ATXN7L3 AND ENY2 COORDINATE ACTIVITY OF M ULTIPLE H2B DEUBIQUITINASES IMPORTANT FOR CELLULAR PROLIFERATION AND TUMOR GROWTH ATANASS OV BS, MOHAN RD, LAN X, KUANG X, LU Y, LIN K, MCIVOR E, LI W, ZHANG Y, FLORENS L, BYRUM SD , MACKINTOSH SG, CALHOUN-DAVIS T, KOUTELOU E, WANG L, TANG DG, TACKETT AJ, WASHBURN MP, WO RKMAN JL, DENT SY MOL CELL 2016,62 558-571 3 TNIP2 IS A HUB PROTEIN IN THE NF-κ B NETWORK WITH BOTH PROTEIN AND RNA MEDIATED INTERACTIONS BANKS CA, BOANCA G, LEE ZT, EUB ANKS CG, HATTEM GL, PEAK A, WEEMS LE, CONKRIGHT JJ, FLORENS L, WASHBURN MP MOL CELL PROTE OMICS 2016,15 3435-3449</p>

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<p>4 MULTIOMIC ANALYSIS OF THE UV- INDUCED DNA DAMAGE RESPONSE</p>	<p>BOEING S, WILLIAMSON L, ENCHEVA V, GORI I, SAUNDERS RE, INSTRELL R, AYGUN O, RODRIGUEZ-MAR TINEZ M, WEEMS JC, KELLY GP, CONAWAY JW, CONAWAY RC, STEWART A, HOWELL M, SNIJDERS AP, SVE JSTRUP JQ CELL REP 2016,15 1597-1610 5 SONAR DISCOVERS RNA-BINDING PROTEINS FROM ANALYSIS OF LARGE-SCALE PROTEIN-PROTEIN INTERACTOMES BRANNAN KW, JIN W, HUELGA SC, BANKS CA, GILMORE JM, FLORENS L, WASHBURN MP, VAN NOSTRAND EL, PRATT GA, SCHWINN MK, DANIELS DL, YEO GW MOL CELL 2016,64 282-293 6 THE MRNA-BOUND PROTEOME OF THE HUMAN MALARIA PARASITE PLASMODIUM FALCIPARUM BUNNIK EM, BATUGEDARA G, SARAF A, PRUDHOMME J, FLORENS L, LE ROCH KG GENOME BIOL 2016,17 147 7 A QUANTITATIVE METHOD FOR DEFINING HIGH-ARCHED PALATE USING THE TCOF1 MUTANT MOUSE AS A MODEL CONLEY ZR, HAGUE M, KUROSAKA H, DIXON J, DIXON MJ, TRAI NOR PA DEV BIOL 2016,415 296-305 8 MYELOID LEUKEMIA FACTOR ACTS IN A CHAPERONE COMPLEX TO REGULATE TRANSCRIPTION FACTOR STABILITY AND GENE DYSREGULATION DUTTA A, GOGOL M, WEAKE VM, DIALYNAS G, WU X, SEIDEL C, ZHANG Y, FLORENS L, WASHBURN MP, ABMAYR SM, WORKMAN JL J MOL BIOL 2016 9 MULTIPLE LIQUID BRIDGES WITH NON-SMOOTH INTERFACES FEL LG, RUBINSTEIN BY, RATNER V ANGEW MATH PHYS 2016,67 107 DOI 10.1007/S00033-016-0702-7 10 WDR76 CO-LOCALIZES WITH HETEROCHROMATIN RELATED PROTEINS AND RAPIDLY RESPONDS TO DNA DAMAGE GILMORE JM, SARDIU ME, GROPPA BD, THORNTON JL, LIU X, DAYEBGADOH G, BANKS CA, SLAUGHTER BD, UNRUH JR, WORKMAN JL, FLORENS L, WASHBURN MP PLOS ONE 2016,11 E0155492 DOI 10.1371/JOURNAL.PONE.0155492 11 WIDESPREAD MAINTENANCE OF GENOME HETEROZYGOSITY IN SCHMIDTEA MEDITERRANEA GUO L, ZHANG S, RUBINSTEIN B, ROSS E, SANCHEZ ALVARADO A NAT ECOL EVOL 2016,1 0019 DOI 10.1038/S41559-016-0019 12 MOLECULAR BASIS OF ORB2 AMYLOIDOGENESIS AND BLOCKADE OF MEMORY CONSOLIDATION HERVUS R, LI L, MAJUMDAR A, FERNANDEZ-RAMIREZ MDC, UNRUH JR, SLAUGHTER BD, GALERA-PRAT A, SANTANA E, SUZUKI M, NAGAI Y, BRUIX M, CASAS-TINT S, MENENDEZ M, LAURENTS DV, SI K, CARRIN-VZQUEZ M PLOS BIOLOGY 2016,14 E1002361 DOI 10.1371/JOURNAL.PBIO.1002361 13 HIV-1 AND HIV-2 EXHIBIT DIVERGENT INTERACTIONS WITH HLF1 AND UNG2 DNA REPAIR PROTEINS HRECKA K, HAO C, SHUN MC, KAUR S, SWANSON SK, FLORENS L, WASHBURN MP, SKOWRONSKI J PROC NATL ACAD SCI U S A 2016,113 E3921-3930 14 THE ENOK ACETYLTRANSFERASE COMPLEX INTERACTS WITH ELG1 AND NEGATIVELY REGULATES PCNA UNLOADING TO PROMOTE THE G1/S TRANSITION HUANG F, SARAF A, FLORENS L, KUSCH T, SWANSON SK, SZERSZEN LT, LI G, DUTTA A, WASHBURN MP, ABMAYR SM, WORKMAN JL GENES DEV 2016,30 1198-1210 15 PHOSPHATASE RTR1 REGULATES GLOBAL LEVELS OF SERINE 5 RNA POLYMERASE II C-TERMINAL DOMAIN PHOSPHORYLATION AND COTRANSCRIPTIONAL HISTONE METHYLATION HUNTER GO, FOX MJ, SMITH-KINNAMAN WR, GOGOL M, FLEHARTY B, MOSLEY AL MOL CELL BIOL 2016,36 2236-2245 16 MMS21 SUMO LIGASE ACTIVITY PROMOTES NUCLEOLAR FUNCTION IN SACCHAROMYCES CEREVISIAE KIM DH, HARRIS B, WANG F, SEIDEL C, MCCROSKEY S, GERTON JL GENETICS 2016,204 645</p>

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<p>4 MULTIOMIC ANALYSIS OF THE UV- INDUCED DNA DAMAGE RESPONSE</p>	<p>-658 17 GENOME-WIDE IDENTIFICATION OF DROSOPHILA DORSO-VENTRAL ENHANCERS BY DIFFERENTIAL HISTONE ACETYLATION ANALYSIS KOENECKE N, JOHNSTON J, GAERTNER B, NATARAJAN M, ZEITLINGER J GENOME BIOL 2016,17 196 18 PROTEOMIC AND GENOMIC ANALYSES OF THE RVB1 AND RVB2 INTERACTION NETWORK UPON DELETION OF R2TP COMPLEX COMPONENTS LAKSHMINARASIMHAN M, BOANCA G, BANKS CA, HATTEM GL, GABRIEL AE, GROPPA BD, SMOYER C, MALANOWSKI KE, PEAK A, FLORENS L, WASHBURN MP MOL CELL PROTEOMICS 2016,15 960-974 19 USP44 IS AN INTEGRAL COMPONENT OF N-COR THAT CONTRIBUTES TO GENE REPRESSION BY DEUBIQUITINATING HISTONE H2B USP44 IS AN INTEGRAL COMPONENT OF N-COR THAT CONTRIBUTES TO GENE REPRESSION BY DEUBIQUITINATING HISTONE H2B LAN X, ATANASSOV BS, LI W, ZHANG Y, FLORENS L, MOHAN RD, GALARDY PJ, WASHBURN MP, WORKMAN JL, DENT SY CELL REP 2016,17 2382-2393 20 EGF SIGNALING DIRECTS NEOBLAST REPOPULATION BY REGULATING ASYMMETRIC CELL DIVISION IN PLANARIANS LEI K, THAKIM VU H, MOHAN RD, MCKINNE Y SA, SEIDEL CW, ALEXANDER R, GOTTING K, WORKMAN JL, SANCHEZ ALVARADO A DEV CELL 2016,38 413-429 21 TRANSCRIPTION FACTOR TLX1 CONTROLS RETINOIC ACID SIGNALING TO ENSURE SPLEEN DEVELOPMENT LENTI E, FARINELLO D, YOKOYAMA KK, PENKOV D, CASTAGNARO L, LAVORGNA G, WUPUTRA K, SANDELL LL, TJADEN NE, BERNASSOLA F, CARIDI N, DE ANTONI A, WAGNER M, KOZINC K, NIEDER REITHER K, BLASI F, PASINI D, MAJDIC G, TONON G, TRAINOR PA, BRENDOLAN A J CLIN INVEST 2016,126 2452-2464 22 SHAPE-CONTROLLED ANISOTROPY OF SUPERPARAMAGNETIC MICRO/NANOHICLES LESHANSKY AM, MOROZOW KI, RUBINSTEIN B NANOSCALE 2016,8 14127-14138 23 CCAR1 5' UTR AS A NATURAL MIRACER OF MIR-1254 OVERRIDES TAMOXIFEN RESISTANCE LI G, WU X, QIAN W, CAI H, SUN X, ZHANG W, TAN S, WU Z, QIAN P, DING K, LU X, ZHANG X, YAN H, SONG H, GUANG S, WU Q, LOBIE PE, SHAN G, ZHU T CELL RES 2016 24 A PUTATIVE BIOCHEMICAL ENGRAM OF LONG-TERM MEMORY LI L, SANCHEZ CP, SLAUGHTER BD, ZHAO Y, KHAN MR, UNRUH JR, RUBINSTEIN B, SI K CURR BIOL 2016,26 3143-3156 25 CYTOPLASMIC ATXN7L3B INTERFERES WITH NUCLEAR FUNCTIONS OF THE E SAGA DEUBIQUITINASE MODULE LI W, ATANASSOV BS, LAN X, MOHAN RD, SWANSON SK, FARRIA AT, FLORENS L, WASHBURN MP, WORKMAN JL, DENT SY MOL CELL BIOL 2016,36 2855-2866 26 REGULATION OF THE IMPRINTED DLK1-DIO3 LOCUS BY ALLELE-SPECIFIC ENHANCER ACTIVITY LUO Z, LIN C, WOODFIN AR, BARTOM ET, GAO X, SMITH ER, SHILATIFARD A GENES DEV 2016,30 92-101 27 HEAD REGENERATION IN HEMICHORDATES IS NOT A STRICT RECAPITULATION OF DEVELOPMENT LUTTRELL SM, GOTTING K, ROSS E, ALVARADO AS, SWALLA BJ DEV DYN 2016,245 1159-1175 28 DNA DAMAGE-INDUCED LOK/CHK2 ACTIVATION COMPROMISES GERMLINE STEM CELL SELF-RENEWAL AND LINEAGE DIFFERENTIATION MA X, HAN Y, SONG X, DO T, YANG Z, NI J, XIE T DEVELOPMENT 2016,143 4312-4323 29 IMMEDIATE PERCEPTION OF A REWARD IS DISTINCT FROM THE REWARD'S LONG-TERM SALIENCE MCGI NNIS JP, JIANG H, AGHA MA, PEREZ SANCHEZ C, LANGE JJ, YU Z, MARION-POLL F, SI K ELIFE 2016,5 E22283 DOI 22210 27554/</p>

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<p>4 MULTIOMIC ANALYSIS OF THE UV- INDUCED DNA DAMAGE RESPONSE</p>	<p>ELIFE 22283 30 ANGIOPOIETIN 2 SIGNALING PLAYS A CRITICAL ROLE IN NEURAL CREST CELL MIGRA TION MCKINNEY MC, MCLENNAN R, KULESA PM BMC BIOLOGY 2016,14 111 31 THIRD CHROMOSOME B ALANCER INVERSIONS DISRUPT PROTEIN-CODING GENES AND INFLUENCE DISTAL RECOMBINATION EVENTS IN DROSOPHILA MELANOGASTER MILLER DE, COOK KR, ARVANITAKIS AV, HAWLEY RS G3 (BETHESDA) 2016,6 1959-1967 32 RARE RECOMBINATION EVENTS GENERATE SEQUENCE DIVERSITY AMONG BALANCER CHROMOSOMES IN DROSOPHILA MELANOGASTER MILLER DE, COOK KR, YEGANEH KAZEMI N, SMITH CB, C OCKRELL AJ, HAWLEY RS, BERGMAN CM PROC NATL ACAD SCI U S A 2016,113 E1352-E1361 33 WHO LE-GENOME ANALYSIS OF INDIVIDUAL MEIOTIC EVENTS IN DROSOPHILA MELANOGASTER REVEALS THAT NO NCROSSOVER GENE CONVERSIONS ARE INSENSITIVE TO INTERFERENCE AND THE CENTROMERE EFFECT MIL LER DE, SMITH CB, KAZEMI NY, COCKRELL AJ, ARVANITAKAS AV, BLUMENSTIEL JP, JASPERSEN SL, HA WLEY RS GENETICS 2016,203 159-171 34 WIDESPREAD FAILURE TO COMPLETE MEIOSIS DOES NOT I MPAIR FECUNDITY IN PARTHENOGENETIC WHIPTAIL LIZARDS NEWTON AA, SCHNITTKER RR, YU Z, MUNDA Y SS, BAUMANN DP, NEAVES WB, BAUMANN P DEVELOPMENT 2016 143 44864494 DOI 10 1242/DEV 1 41283 35 THE ROLES OF RNA POLYMERASE I SUBUNITS POLR1C AND POLR1D IN CRANIOFACIAL DEVELO PMENT AND THE PATHOGENESIS OF TREACHER COLLINS SYNDROME NOACK WATT KE, ACHILLEOS A, NEBEN CL, MERRILL AE, TRAINOR PA PLOS GENET 2016,12 E1006187 DOI 1006110 1001371/JOURNAL PG EN 1006187 36 TRANSCRIPTOME ANALYSIS OF TETRAPLOID CELLS IDENTIFIES CYCLIN D2 AS A FACIL ITATOR OF ADAPTATION TO GENOME DOUBLING IN THE PRESENCE OF P53 POTAPOVA TA, SEIDEL CW, BO X AC, RANCATI G, LI R MOL BIOL CELL 2016,27 3065-3084 37 AN EVOLUTIONARY CONSERVED EPI GENETIC MARK OF POLYCOMB RESPONSE ELEMENTS IMPLEMENTED BY TRX/MLL/COMPASS RICKELS R, HU D , COLLINGS CK, WOODFIN AR, PIUNTI A, MOHAN M, HERZ HM, KVON E, SHILATIFARD A MOL CELL 20 16,63 318-328 38 COMPARATIVE AND TRANSCRIPTOME ANALYSES UNCOVER KEY ASPECTS OF CODING- A ND LONG NON-CODING RNAS IN FLATWORM MITOCHONDRIAL GENOMES ROSS E, BLAIR D, GUERRERO-HERNA NDEZ C, SANCHEZ ALVARADO A G3 (BETHESDA) 2016,6 1191-1200 39 LONG-TERM DYNAMICS OF MUL TISITE PHOSPHORYLATION RUBINSTEIN BY, MATTINGLY HH, BEREZHKOVSII AM, SHVARTSMAN SY MOL BIOL CELL 2016,27 2331-2340 40 PREVENTION OF TREACHER COLLINS SYNDROME CRANIOFACIAL ANO MALIES IN MOUSE MODELS VIA MATERNAL ANTIOXIDANT SUPPLEMENTATION SAKAI D, DIXON J, ACHILLE OS A, DIXON M, TRAINOR PA NAT COMMUN 2016,7 10328 DOI 10310 11038/NCOMMS10328</p>

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41 DYNAMIC AND COMBINATORIAL LANDSCAPE OF HISTONE	<p>MODIFICATIONS DURING THE INTRAERYTHROCYTIC DEVELOPMENTAL CYCLE OF THE MALARIA PARASITE SA RAF A, CERVANTES S, BUNNIK EM, PONTS N, SARDIU ME, CHUNG DW, PRUDHOMME J, VARBERG JM, WEN Z, WASHBURN MP, FLORENS L, LE ROCH KG J PROTEOME RES 2016,15 2787-2801 42 ROLE FOR THE MED21-MED7 HINGE IN ASSEMBLY OF THE MEDIATOR-RNA POLYMERASE II HOLOENZYME SATO S, TOMOMO RI-SATO C, TSAI KL, YU X, SARDIU M, SARAF A, WASHBURN MP, FLORENS L, ASTURIAS FJ, CONAWAY RC, CONAWAY JW J BIOL CHEM 2016 43 ROBUST GAP REPAIR IN THE CONTRACTILE RING ENSURES TIMELY COMPLETION OF CYTOKINESIS SILVA AM, OSORIO DS, PEREIRA AJ, MAIATO H, PINTO IM, RUBI NSTEIN B, GASSMANN R, TELLEY IA, CARVALHO AX J CELL BIOL 2016,215 789-799 44 ANALYSIS OF MEMBRANE PROTEINS LOCALIZING TO THE INNER NUCLEAR ENVELOPE IN LIVING CELLS SMOYER CJ, K ATTA SS, GARDNER JM, STOLTZ L, MCCROSKEY S, BRADFORD WD, MCCLAIN M, SMITH SE, SLAUGHTER BD , UNRUH JR, JASPERSEN SL J CELL BIOL 2016,215 575- 590 45 THE SPLICEOSOMAL PROTEIN SF3B 5 IS A NOVEL COMPONENT OF DROSOPHILA SAGA THAT FUNCTIONS IN GENE EXPRESSION INDEPENDENT OF SPLICING STEGEMAN R, SPREACKER PJ, SWANSON SK, STEPHENSON R, FLORENS L, WASHBURN MP, WEA KE VM J MOL BIOL 2016,428 3632-3649 46 TRIO, A RHO FAMILY GEF, INTERACTS WITH THE PRESYNAPTIC ACTIVE ZONE PROTEINS PICCOLO AND BASSOON TERRY-LORENZO RT, TORRES VI, WAGH D, GALA Z J, SWANSON SK, FLORENS L, WASHBURN MP, WAITES CL, GUNDELFINGER ED, REIMER RJ, GARNER CC PLOS ONE 2016,11 E0167535 DOI 0167510 0161371/JOURNAL PONE 0167535 47 GLYPICAN4 MODULATES LATERAL LINE COLLECTIVE CELL MIGRATION NON CELL-AUTONOMOUSLY VENERO GALANTERNIK M, LUSH ME, PIOTROWSKI T DEV BIOL 2016,419 321-336 48 LOCALIZED GENE INDUCTION BY INFRARED-MEDIATED HEAT SHOCK VENERO GALANTERNIK M, NIKAIIDO M, YU Z, MCKINNEY SA, PIOTROWSKI T Z EBRAFISH 2016,13 537-540 49 SELECTIVE SUPPRESSION OF ANTISENSE TRANSCRIPTION BY SET2-MEDIATED H3K36 METHYLATION VENKATESH S, LI H, GOGOL MM, WORKMAN JL NAT COMMUN 2016,7 E136 10 DOI 13610 11038/NCOMMS13610 50 CRUCIAL ROLES OF THE ARP2/3 COMPLEX DURING MAMMALIAN CORTICOGENESIS WANG PS, CHOU FS, RAMACHANDRAN S, XIA S, CHEN HY, GUO F, SURANENI P, MAHER BJ, LI R DEVELOPMENT 2016,143 2741-2752 51 IMPROVED TRANSCRIPTION AND TRANSLATION WITH L-LEUCINE STIMULATION OF MTORC1 IN ROBERTS SYNDROME IMPROVED TRANSCRIPTION AND TRANSLATION WITH L-LEUCINE STIMULATION OF MTORC1 IN ROBERTS SYNDROME XU B, GOGOL M, GAUDENZ K, GERSTON JL BMC GENOMICS 2016,17 25 REVIEWS, COMMENTARIES, CHAPTERS, AND BOOKS 1 A NUCLEOPORIN AT THE MEIOTIC KINETOCHORE BONNER AM, HAWLEY RS DEV CELL 2016,38 447-448 2 REGULATING THE CONSTRUCTION AND DEMOLITION OF THE SYNAPTONEMAL COMPLEX CAHOON CK, HAWLEY RS NAT STRUCT MOL BIOL 2016,23 369- 377 3 MEIOSIS COHESINS ARE NOT JUST FOR SISTERS ANYMORE CAHOON CK, HAWLEY RS CURRENT BIOLOGY 2016,26 R523-R525 DOI 10.1016/j.cub.2016.05.011 4 HOXS AND LINC RNAs TWO SIDES OF THE SAME COIN DE KUMAR B, KRUMLAUF R SCI ADV 2016,2 E1501402 5 DIVERSE ACTIVITIES</p>

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41 DYNAMIC AND COMBINATORIAL LANDSCAPE OF HISTONE	<p>TIES OF HISTONE ACYLATIONS CONNECT METABOLISM TO CHROMATIN FUNCTION DUTTA A, ABMAYR SM, W ORKMAN JL MOLECULAR CELL 2016,63 547-552 DOI 10 1016/J MOLCEL 2016 06 038 6 THE CENT ENARY OF GENETICS BRIDGES TO THE FUTURE GANETZKY B, HAWLEY RS GENETICS 2016,202 15-23 7 A GLASS MENAGERIE OF LOW COMPLEXITY SEQUENCES HALFMANN R CURR OPIN STRUCT BIOL 2016 ,38 9-16 8 ALFRED STURTEVANT AND GEORGE BEADLE UNTANGLE INVERSIONS HAWLEY RS, GANETZKY B GENETICS 2016,203 1001-1003 9 LIMITING PCNA-UNLOADING AT THE G1/S TRANSITION HUANG F, ABMAYR SM, WORKMAN JL CELL CYCLE 2016,15 3001-3002 DOI 10 1080/15384101 2016 1214036 10 REGULATION OF KAT6 ACETYLTTRANSFERASES AND THEIR ROLES IN CELL CYCLE PROGRESSION, STE M CELL MAINTENANCE, AND HUMAN DISEASE HUANG F, ABMAYR SM, WORKMAN JL MOL CELL BIOL 2016 ,36 1900-1907 11 HUSBANDRY TECHNIQUES FOR A LARGE COLONY OF WHIPTAIL LIZARDS, GENUS ASPI DOSCELIS (LACERTILIA TEIIDAE) JEWELL D, MUENSCH A, PIRAQUIVE C, WINTER K, KUPRONIS R, BA UMANN DP SWCHR BULLETIN 2016,5 53-57 12 INSIGHTS INTO SENSORY HAIR CELL REGENERATION F ROM THE ZEBRAFISH LATERAL LINE KNISS JS, JIANG L, PIOTROWSKI T CURR OPIN GENET DEV 2016 ,40 32-40 13 ISOLATION, PROTEOMIC ANALYSIS, AND MICROSCOPY CONFIRMATION OF THE LIVER NUC LEAR ENVELOPE PROTEOME KORFALI N, FLORENS L, SCHIRMER EC METHODS MOL BIOL 2016,1411 3-4 4 14 HOX GENES AND THE HINDBRAIN A STUDY IN SEGMENTS KRUMLAUF R CURR TOP DEV BIOL 20 16,116 581-596 15 BECOMING A CROSSOVER-COMPETENT DSB LAKE CM, HAWLEY RS SEMIN CELL DEV BIOL 2016,54 117-125 16 ADVANCEMENT OF MASS SPECTROMETRY-BASED PROTEOMICS TECHNOLOGIES TO EXPLORE TRIPLE NEGATIVE BREAST CANCER MIAH S, BANKS CA, ADAMS MK, FLORENS L, LUKONG KE , WASHBURN MP MOL BIOSYST 2016,13 42-55 17 DEVELOPMENTAL PATTERNING PUTTING THE SQUEE ZE ON MIS-SPECIFIED CELLS NAKAJIMA Y, GIBSON MC CURR BIOL 2016,26 R204-206 18 OCULAR STEM CELL RESEARCH FROM BASIC SCIENCE TO CLINICAL APPLICATION A REPORT FROM ZHONGSHAN OPH THALMIC CENTER OCULAR STEM CELL SYMPOSIUM OUYANG H, GOLDBERG JL, CHEN S, LI W, XU GT, LI W, ZHANG K, NUSSENBLATT RB, LIU Y, XIE T, CHAN CC, ZACK DJ J MOL SCI 2016,17 415 DOI 41 0 3390/IJMS17030415 19 THE VERTEBRATE HOX GENE REGULATORY NETWORK FOR HINDBRAIN SEGMENTA TION EVOLUTION AND DIVERSIFICATION COUPLING OF A HOX GENE REGULATORY NETWORK TO HINDBRAI N SEGMENTATION IS AN ANCIENT TRAIT ORIGINATING AT THE BASE OF VERTEBRATES PARKER HJ, BRON NER ME, KRUMLAUF R BIOESSAYS 2016,38 526-538 20 SINGLE-CELL RNA-SEQ TECHNOLOGY LENDS A HAND INTO HSC ONTOGENY QIAN P, LI L SCI CHINA LIFE SCI 2016 DOI 10 1007/S11427-016-5 092-8 21 THE REGULATORY NICHE OF INTESTINAL STEM CELLS SAILAJA BS, HE XC, LI L J PHYSI OL 2016,594 4827-4836 22 FACE OFF AGAINST ROS TCOF1/TREACLE SAFEGUARDS NEUROEPITHELIAL CELLS AND PROGENITOR NEURAL CREST CELLS FROM OXIDATIVE STRESS DURING CRANIOFACIAL DEVELOP MENT SAKAI D, TRAINOR PA FACE OFF AGAINST ROS DEV GROWTH DIFFER 2016,58 577-585 23 M ULTIDISCIPLINARY APPROACHES TO</p>

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41 DYNAMIC AND COMBINATORIAL LANDSCAPE OF HISTONE	<p>UNDERSTANDING COLLECTIVE CELL MIGRATION IN DEVELOPMENTAL BIOLOGY SCHUMACHER LJ, KULESA PM, MCLENNAN R, BAKER RE, MAINI PK OPEN BIOL 2016,6 160056 DOI 160010 161098/RSOB 160056 24 THE ROLE OF FUNCTIONAL PRION-LIKE PROTEINS IN THE PERSISTENCE OF MEMORY SI K, KANDE L ER COLD SPRING HARB PERSPECT BIOL 2016,8 A021774 DOI 021710 021101/CSHPERSPECT A0217 74 25 STEM CELLS AND REGENERATION IN THE DIGESTIVE SYSTEM KEYSTONE MEETING SOFFERS JH, HANSEN D, SINAGOGA KL, LI B, MARTIN MG, WELLS J, GROMPE M, LI L GASTROENTEROLOGY 2016,1 51 E6-9 26 READING AND INTERPRETING THE HISTONE ACYLATION CODE SOFFERS JH, LI X, ABMAYR SM, WORKMAN JL BIOINFORMATICS 2016,14 329-332 27 HISTONE MODIFICATION AS A REFLECTION OF METABOLISM SUGANUMA T, WORKMAN JL CELL CYCLE 2016,15 481-482 DOI 10 1080/15384101 2015 1128190 28 THE SOCIETY FOR CRANIOFACIAL GENETICS AND DEVELOPMENTAL BIOLOGY 38TH ANNUAL MEETING TANEYHILL LA, HOOVER-FONG J, LOZANOFF S, MARCUCIO R, RICHTSMEIER JT, TRAINOR PA AM J MED GENET A 2016,170 1732-1753 29 DEVELOPMENTAL BIOLOGY WE ARE ALL WALKING MOUNTAINS TRAINOR PA DEVELOPMENTAL BIOLOGY CURR TOP DEV BIOL 2016,117 523-538 30 IMAGING COLLECTIVE CELL MIGRATION AND HAIR CELL REGENERATION IN THE SENSORY LATERAL LINE VENERO GALANTERNIK M, NAVAJAS ACEDO J, ROMERO-CARVAJAL A, PIOTROWSKI T METHODS IN CELL BIOLOGY 2016,134 211-256 DOI 10 1016/BS MCB 2016 01 004 31 THERE IS NO HUMAN INTERACTOME WASHBURN MP GENOME BIOL 2016,17 48 32 RESHAPING THE CHROMATIN AND EPIGENETIC LANDSCAPES WITH QUANTITATIVE MASS SPECTROMETRY WASHBURN MP, ZHAO Y, GARCIA BA MOL CELL PROTEOMICS 2016,15 753-754 33 CHROMATIN IT TAKES TEAMWORK TO MODIFY CHROMATIN WORKMAN JL SCIENCE 2016,351 667 34 DISSECTING THE BONE MARROW HEMATOPOIETIC STEM CELL NICHE ZHAO M, LI L CELL RES 2016,26 975-976 COMPETITIVE RESEARCH GRANT FUNDING & RESEARCH AWARDS & DISTINCTIONS</p>

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THE ABILITY OF SIMR SCIENTISTS TO RECEIVE COMPETITIVELY AWARDED	<p>RESEARCH FUNDING ATTESTS TO THE HIGH LEVEL OF RESEARCH PRODUCTIVITY PRESENT AT SIMR DURING 2016, SIMR SCIENTISTS WORKED WITH THE SUPPORT OF 25 GRANTS AND FELLOWSHIPS FROM THE NATIONAL INSTITUTES OF HEALTH, THREE GRANTS AND FELLOWSHIPS FROM THE AMERICAN CANCER SOCIETY, ONE GRANT FROM THE MARCH OF DIMES, ONE FELLOWSHIP FROM THE AMERICAN HEART ASSOCIATION, ONE GRANT FROM ALEXS LEMONADE STAND FOUNDATION, ONE GRANT FROM THE CORNELIA DE LANGE SYNDROME FOUNDATION, ONE AWARD FROM THE AMERICAN HEMATOLOGY SOCIETY, ONE GRANT FROM THE COMPANY OF BIOLOGISTS, ONE AWARD FROM THE LEUKEMIA & LYMPHOMA SOCIETY, ONE GRANT FROM THE GREATER KANSAS CITY COMMUNITY FOUNDATION, ONE GRANT FROM THE HEARING HEALTH FOUNDATION, ONE AWARD FROM THE MIDWEST CANCER ALLIANCE, THREE AWARDS FROM THE UNIVERSITY OF KANSAS ENDOWMENT ASSOCIATION, AND TWO INVESTIGATOR AWARDS FROM THE HOWARD HUGHES MEDICAL INSTITUTE. SUPPORT FROM NEW AND CONTINUING AWARDS TO THE SIMR TOTALLED MORE THAN \$6.3 MILLION IN 2016 TO SUPPLEMENT INCOME FROM ITS ENDOWMENTS. TESTIFYING TO THE HIGH LEVEL OF ACHIEVEMENT TAKING PLACE AT THE SIMR ARE THE AWARDS AND HONORS SIMR MEMBERS RECEIVED IN 2016 -ROBERT KRUMLAUF, PH.D., WAS ELECTED TO THE NATIONAL ACADEMY OF SCIENCES -SUE JASPERSEN, PH.D., WAS ELECTED AS AN AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE FELLOW -MICHAEL WASHBURN, PH.D., RECEIVED A GRANT FROM THE NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES OF THE NATIONAL INSTITUTES OF HEALTH -SARAH ZANDERS, PH.D., RECEIVED A PATHWAY TO INDEPENDENCE GRANT FROM THE NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES OF THE NATIONAL INSTITUTES OF HEALTH -JERRY WORKMAN, PH.D., RECEIVED A FIVE-YEAR PILOT GRANT FROM THE NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES OF THE NATIONAL INSTITUTES OF HEALTH -RON YU, PH.D., WAS AWARDED A COMPETITIVE RENEWAL GRANT FROM THE NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS OF THE NATIONAL INSTITUTES OF HEALTH -RANDAL HALFMANN, PH.D., WAS AWARDED A GRANT THROUGH THE UNIVERSITY OF KANSAS ALZHEIMERS DISEASE CENTER AND LONDON CENTER ON AGING -MATTHEW GIBSON, PH.D., RECEIVED A GRANT TO SUPPORT A DEVELOPMENTAL BIOLOGY MEETING FROM THE EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT OF THE NATIONAL INSTITUTES OF HEALTH -WILLIAM MUNOZ, PH.D., RECEIVED A FELLOWSHIP GRANT FROM THE AMERICAN ASSOCIATION OF ANATOMISTS -ALICE ACCORSI, PH.D., RECEIVED A GRANT FROM THE SOCIETY FOR DEVELOPMENTAL BIOLOGY. INDEPENDENT RESEARCH PROGRAM LEADERS LABORATORIES INDIVIDUAL SCIENTISTS AT THE SIMR SPECIALIZE IN THE STUDY OF ONE OR MORE PARTICULAR GENES, EACH OF WHICH MAY CAUSE OR HAVE INFLUENCE IN VARIOUS KINDS OF DISEASE. A COMPREHENSIVE LIST OF RESEARCH LEADERS FOLLOWS - ROBERT KRUMLAUF, PH.D., SCIENTIFIC DIRECTOR AND INVESTIGATOR, JOINED THE SIMR IN 2000 FROM ENGLANDS NATIONAL INSTITUTE FOR MEDICAL RESEARCH, THE RIDGEWAY, MILL HILL, LONDON, WHERE HE WAS HEAD OF THE DIVISION OF DEVELOPMENTAL NEUROBIOLOGY. DR. KRUMLAUF RECEIVED A PH.D. IN DEVELOPMENTAL</p>

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<p>THE ABILITY OF SIMR SCIENTISTS TO RECEIVE COMPETITIVELY AWARDED</p>	<p>TAL BIOLOGY FROM OHIO STATE UNIVERSITY RESEARCH FOCUS ANALYSIS OF MOLECULAR PATHWAYS THAT REGULATE HOW THE MAMMALIAN HEAD, BRAIN AND NERVOUS SYSTEM ARE BUILT, USING A VARIETY OF VERTEBRATE MODEL SYSTEMS - PETER BAUMANN, PH D , INVESTIGATOR AND HOWARD HUGHES MEDICAL INSTITUTE INVESTIGATOR, JOINED SIMR IN 2002 AFTER COMPLETING A HOWARD HUGHES MEDICAL INSTITUTE POSTDOCTORAL FELLOWSHIP IN THE LABORATORY OF DR THOMAS R CECHE AT THE UNIVERSITY OF COLORADO-Boulder DR BAUMANN RECEIVED A PH D IN BIOCHEMISTRY FROM THE IMPERIAL CANCER RESEARCH FUND AND UNIVERSITY COLLEGE, LONDON RESEARCH FOCUS FUNCTIONAL ANALYSIS OF TELOMERES AND THEIR ROLES IN CELLULAR IMMORTALITY AND CANCER - ARIEL BAZZINI, PH D , ASSISTANT INVESTIGATOR, JOINED SIMR IN 2016 FROM THE LAB OF ANTONIO J GIRALDEZ, PH D , IN THE DEPARTMENT OF GENETICS AT YALE UNIVERSITY, WHERE HE COMPLETED A POSTDOCTORAL FELLOWSHIP DR BAZZINI RECEIVED HIS PH D IN MOLECULAR BIOLOGY AT THE UNIVERSITY OF BUENOS AIRES, ARGENTINA FOR HIS DOCTORAL DISSERTATION, HE STUDIED PLANT GENETICS AT THE INSTITUTE OF BIOTECHNOLOGY IN ARGENTINAS NATIONAL INSTITUTE OF AGRICULTURAL TECHNOLOGY (INTA) RESEARCH FOCUS THE REGULATION OF GENE EXPRESSION IN VERTEBRATES - JOAN CONAWAY, PH D , INVESTIGATOR, JOINED SIMR IN 2001 FROM THE OKLAHOMA MEDICAL RESEARCH FOUNDATION WHERE SHE WAS AN ASSOCIATE INVESTIGATOR OF THE HOWARD HUGHES MEDICAL INSTITUTE AND INTERIM HEAD OF THE PROGRAM IN MOLECULAR AND CELL BIOLOGY DR CONAWAY RECEIVED HER DOCTORATE IN CELL BIOLOGY FROM STANFORD UNIVERSITY SCHOOL OF MEDICINE RESEARCH FOCUS ANALYSIS OF THE MOLECULAR MECHANISM AND REGULATION OF GENE TRANSCRIPTION - RONALD CONAWAY, PH D , INVESTIGATOR, JOINED SIMR IN 2001 FROM THE OKLAHOMA MEDICAL RESEARCH FOUNDATION WHERE HE WAS HOLDER OF THE CHAPMAN CHAIR IN MEDICAL RESEARCH DR CONAWAY RECEIVED HIS PH D IN BIOCHEMISTRY FROM STANFORD UNIVERSITY SCHOOL OF MEDICINE RESEARCH FOCUS ANALYSIS OF THE MOLECULAR MECHANISM AND REGULATION OF GENE TRANSCRIPTION - JENNIFER GERTON, PH D , INVESTIGATOR, JOINED SIMR IN 2002 FROM A POSTDOCTORAL FELLOWSHIP IN THE LABORATORY OF DR JOSEPH DERISI IN THE DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS AT THE UNIVERSITY OF CALIFORNIA-SAN FRANCISCO DR GERTON RECEIVED A PH D IN MICROBIOLOGY AND IMMUNOLOGY FROM STANFORD UNIVERSITY RESEARCH FOCUS GENOMIC AND GENETIC ANALYSIS OF CHROMOSOME SEGREGATION AND CHROMOSOME DYNAMICS - MATTHEW GIBSON, PH D , ASSOCIATE INVESTIGATOR, JOINED SIMR IN 2006 FROM A JANE COFFIN CHILDS MEMORIAL FUND POSTDOCTORAL FELLOWSHIP WITH DR NORBERT PERRIMON AT HARVARD MEDICAL SCHOOL DR GIBSON RECEIVED A PH D IN ZOOLOGY FROM THE UNIVERSITY OF WASHINGTON RESEARCH FOCUS GENETIC ANALYSIS OF MECHANISMS CONTROLLING SIGNAL TRANSDUCTION, CELL PROLIFERATION, AND EPITHELIAL MORPHOGENESIS DURING DROSOPHILA DEVELOPMENT - RANDAL HALFMANN, PH D , ASSISTANT INVESTIGATOR, JOINED SIMR IN 2015 FROM THE UNIVERSITY OF TEXAS (UT) SOUTHWESTERN MEDICAL CENTER HE RECEIVED A PH D IN BIOLOGY FROM THE MASSACHUSETTS</p>

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<p>THE ABILITY OF SIMR SCIENTISTS TO RECEIVE COMPETITIVELY AWARDED</p>	<p>CHUSETTS INSTITUTE OF TECHNOLOGY, WHERE HE WAS A NATIONAL SCIENCE FOUNDATION PREDOCTORAL FELLOW AFTER COMPLETING HIS GRADUATE STUDIES, DR HALFMANN OBTAINED AN INDEPENDENT POSITIO N AT UT SOUTHWESTERN MEDICAL CENTER WHERE HE WAS A SARA AND FRANK MCKNIGHT FELLOW AND RECEIVED A DIRECTORS EARLY INDEPENDENCE AWARD FROM THE NATIONAL INSTITUTES OF HEALTH RESEARCH FOCUS CELLULAR AND EVOLUTIONARY IMPLICATIONS OF PROTEIN SELF-ASSEMBLY USING GENETIC, BIOCHEMICAL, AND CELL-BIOLOGICAL APPROACHES - R SCOTT HAWLEY, PH D , INVESTIGATOR, JOINED S IMR IN 2001 FROM THE UNIVERSITY OF CALIFORNIA-DAVIS WHERE HE WAS A PROFESSOR OF GENETICS I N THE MOLECULAR AND CELLULAR BIOLOGY SECTION DR HAWLEY EARNED A PH D IN GENETICS FROM T HE UNIVERSITY OF WASHINGTON AND COMPLETED POSTDOCTORAL TRAINING AS A HELEN HAY WHITNEY FEL LOW AT THE INSTITUTE FOR CANCER RESEARCH IN PHILADELPHIA RESEARCH FOCUS INVESTIGATION OF MECHANISMS THAT INFLUENCE HOW CHROMOSOMES PAIR AND SEGREGATE DURING MEIOSIS USING DROSOPHILA AS AN EXPERIMENTAL SYSTEM - SUE JASPERSEN, PH D , ASSOCIATE INVESTIGATOR, JOINED SIMR IN 2005 FROM THE LABORATORY OF DR MARK WINEY AT THE UNIVERSITY OF COLORADO-BOULDER WHERE SHE WAS A KECK FOUNDATION FELLOW, A HELEN HAY WHITNEY FELLOW, AND THE RECIPIENT OF A LEUK EMIA & LYMPHOMA SOCIETY CAREER DEVELOPMENT AWARD DR JASPERSEN HOLDS A PH D IN BIOCHEMIS TRY FROM THE UNIVERSITY OF CALIFORNIA-SAN FRANCISCO RESEARCH FOCUS INNER NUCLEAR MEMBRAN E PROTEIN LOCALIZATION AND ROLE IN CHROMOSOME POSITIONING AND SEGREGATION - LINHENG LI, P H D , INVESTIGATOR, JOINED SIMR IN 2000 FROM THE UNIVERSITY OF WASHINGTON MEDICAL CENTER W HERE HE HELD A FACULTY APPOINTMENT AFTER COMPLETING POSTDOCTORAL TRAINING IN THE LABORATOR Y DIRECTED BY DR LEROY HOOD DR LI EARNED HIS PH D IN MOLECULAR AND CELLULAR BIOLOGY FR OM NEW YORK UNIVERSITY MEDICAL SCHOOL UNDER THE MENTORING OF DR EDWARD ZIFF RESEARCH FOC US INVESTIGATION OF MOLECULAR AND GENETIC PATHWAYS CONTROLLING ADULT STEM CELL DEVELOPMEN T IN THE HEMATOPOIETIC AND INTESTINAL SYSTEMS USING TRANSGENIC AND GENE TARGETING ANIMAL M ODEL APPROACHES</p>

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<p>- TATJANA PIOTROWSKI, PH D , ASSOCIATE INVESTIGATOR, JOINED SIMR</p>	<p>IN 2011 FROM THE UNIVERSITY OF UTAHS SCHOOL OF MEDICINE, WHERE SHE WAS AN ASSOCIATE PROFESSOR IN THE DEPARTMENT OF NEUROBIOLOGY AND ANATOMY SHE RECEIVED HER MASTERS DEGREE FROM THE UNIVERSITY OF TUBINGEN, GERMANY, AND HER DOCTORATE DEGREE FROM THE MAX PLANCK INSTITUTE FOR DEVELOPMENTAL BIOLOGY IN TUBINGEN RESEARCH FOCUS COLLECTIVE CELL MIGRATION, CELL TYPE SPECIFICATION AND STEM CELL BIOLOGY IN ZEBRAFISH AS A MODEL SYSTEM - NICOLAS ROHNER, PH D , ASSISTANT INVESTIGATOR, JOINED SIMR IN 2015 FROM HARVARD MEDICAL SCHOOL, WHERE HE WAS A POSTDOCTORAL FELLOW IN DR CLIFF TABINS LABORATORY HE EARNED A PH D IN BIOLOGY FROM THE MAX PLANCK INSTITUTE FOR DEVELOPMENTAL BIOLOGY IN TUBINGEN, GERMANY RESEARCH FOCUS GENETIC MECHANISMS AND MUTATIONS THAT UNDERLIE THE ANIMAL KINGDOMS TREMENDOUS DIVERSITY IN MORPHOLOGY, PHYSIOLOGY, AND BEHAVIOR - ALEJANDRO SANCHEZ ALVARADO, PH D , INVESTIGATOR AND HOWARD HUGHES MEDICAL INSTITUTE INVESTIGATOR, JOINED SIMR IN 2011 FROM THE UNIVERSITY OF UTAHS SCHOOL OF MEDICINE, WHERE HE HELD THE H A & EDNA BENNING PROFESSORSHIP OF NEUROBIOLOGY AND ANATOMY HE RECEIVED A B S IN MOLECULAR BIOLOGY AND CHEMISTRY FROM VANDERBILT UNIVERSITY IN NASHVILLE, TENN , AND A PH D IN PHARMACOLOGY AND CELL BIOPHYSICS FROM THE UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE IN CINCINNATI, OHIO RESEARCH FOCUS THE MOLECULAR AND CELLULAR MECHANISMS UNDERPINNING ANIMAL REGENERATION USING THE PLANARIAN SCHMIDT MEDIAN AS A MODEL SYSTEM - KAUSIK SI, PH D , ASSOCIATE INVESTIGATOR, JOINED SIMR IN 2005 FROM THE LABORATORY OF DR ERIC KANDEL AT COLUMBIA UNIVERSITY CENTER FOR NEUROBIOLOGY AND BEHAVIOR WHERE HE WAS A JANE COFFIN CHILDS FELLOW AND A FRANCIS GOELET FELLOW IN NEUROSCIENCE DR SI EARNED A PH D IN MOLECULAR BIOLOGY FROM THE ALBERT EINSTEIN COLLEGE OF MEDICINE RESEARCH FOCUS ROLE OF SYNAPTIC PROTEIN SYNTHESIS IN INFORMATION ACQUISITION AND MEMORY STORAGE - PAUL TRAINOR, PH D , INVESTIGATOR, JOINED SIMR IN 2001 FROM A RESEARCH POSITION AT THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH AT MILL HILL, LONDON, WHERE HE COMPLETED POSTDOCTORAL TRAINING DR TRAINOR HAS A PH D IN DEVELOPMENTAL BIOLOGY FROM CHILDRENS MEDICAL RESEARCH INSTITUTE AT THE UNIVERSITY OF SYDNEY, AUSTRALIA RESEARCH FOCUS INVESTIGATION OF THE INTERACTIONS BETWEEN DISTINCT TISSUES IN THE BODY AND THEIR REGULATION DURING NORMAL DEVELOPMENT TO REVEAL PATHWAYS THAT REGULATE NORMAL CRANIAL AND FACIAL DEVELOPMENT - JERRY WORKMAN, PH D , INVESTIGATOR, JOINED SIMR IN 2003 FROM THE PENNSYLVANIA STATE UNIVERSITY WHERE HE HELD THE PAUL BERG PROFESSORSHIP OF BIOCHEMISTRY AND WAS AN ASSOCIATE INVESTIGATOR OF THE HOWARD HUGHES MEDICAL INSTITUTE DR WORKMAN EARNED A PH D IN CELL AND MOLECULAR BIOLOGY FROM THE UNIVERSITY OF MICHIGAN AND COMPLETED POSTDOCTORAL TRAINING AT THE ROCKEFELLER UNIVERSITY WITH DR BOB ROEDER RESEARCH FOCUS STUDY OF THE PROTEIN COMPLEXES THAT MODIFY CHROMATIN - TING XIE, PH D , INVESTIGATOR, JOINED SIMR IN 2000 AFTER COMPLETING A HOWARD HUGHES MED</p>

990 Schedule O, Supplemental Information

Return Reference	Explanation
<p>- TATJANA PIOTROWSKI, PH D , ASSOCIATE INVESTIGATOR, JOINED SIMR</p>	<p>ICAL INSTITUTE POSTDOCTORAL FELLOWSHIP IN THE LABORATORY OF DR ALLAN C SPRADLING AT THE CARNEGIE INSTITUTION OF WASHINGTON DR XIE RECEIVED HIS PH D FROM THE JOINT GRADUATE PRO GRAM IN MOLECULAR BIOLOGY AND BIOCHEMISTRY OF RUTGERS UNIVERSITY AND THE UNIVERSITY OF MED ICINE AND DENTISTRY OF NEW JERSEY RESEARCH FOCUS GENETIC AND MOLECULAR ANALYSIS OF STEM CELLS AND GERM CELL DEVELOPMENT IN DROSOPHILA AND MOUSE - C RON YU, PH D , INVESTIGATOR, JOINED SIMR IN 2005 FROM THE LABORATORY OF DR RICHARD AXEL AT COLUMBIA UNIVERSITY CENTER FOR NEUROBIOLOGY AND BEHAVIOR WHERE HE HELD A NATIONAL INSTITUTES OF HEALTH MENTORED RESE ARCH SCIENTIST AWARD FROM THE NATIONAL INSTITUTE OF MENTAL HEALTH DR YU EARNED HIS PH D IN MOLECULAR, CELLULAR, AND BIOPHYSICAL STUDIES AT COLUMBIA UNIVERSITY RESEARCH FOCUS H OW OLFATORY SENSORY INFORMATION IS DETECTED, INTEGRATED, AND PROCESSED IN THE BRAIN TO IN FLUENCE SPECIFIC INNATE BEHAVIORS - SARAH ZANDERS, PH D , ASSISTANT INVESTIGATOR, JOINED SIMR IN 2016 AFTER COMPLETION OF HER POSTDOCTORAL TRAINING IN BASIC SCIENCES AT THE FRED H UTHINSON CANCER RESEARCH CENTER (FHCRC) WITH SUPPORT FROM A PATHWAY TO INDEPENDENCE AWARD FROM THE NATIONAL INSTITUTES OF HEALTH FHCRC FACULTY MEMBERS HARMIT S MALIK, PH D , AND GERRY SMITH, PH D , ADVISED HER RESEARCH ON FERTILITY, GENOME EVOLUTION, AND THE ORIGIN O F NEW SPECIES DR ZANDERS RECEIVED HER PH D DEGREE IN GENETICS AND DEVELOPMENT FROM CORN ELL UNIVERSITY RESEARCH FOCUS THE EFFECTS OF GENETIC CONFLICTS CAUSED BY SELFISH GENES T HAT ARE EMBEDDED IN EUKARYOTIC GENOMES - JULIA ZEITLINGER, PH D , ASSOCIATE INVESTIGATOR, JOINED SIMR IN 2007 FROM THE LAB OF DR RICHARD YOUNG AT THE WHITEHEAD INSTITUTE FOR BIOM EDICAL RESEARCH AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY WHERE SHE WAS THE RECIPIENT OF A LONG-TERM POSTDOCTORAL FELLOWSHIP FROM THE HUMAN FRONTIER SCIENCE PROGRAM DR ZEITLINGER EARNED A PH D IN MOLECULAR BIOLOGY FROM THE EUROPEAN MOLECULAR BIOLOGY LABORATORY IN HEID ELBERG, GERMANY RESEARCH FOCUS ANALYSIS OF THE GENE REGULATORY NETWORKS UNDERLYING CELLU LAR DIFFERENTIATION TECHNOLOGY CENTERS - PAUL KULESA, PH D , DIRECTOR OF IMAGING, JOINED SIMR IN 2002 AFTER COMPLETING A BURROUGHS WELLCOME FUND POSTDOCTORAL FELLOWSHIP IN THE LAB ORATORY OF DR SCOTT E FRASER AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY DR KULESA RECEI VED A PH D IN APPLIED MATHEMATICS UNDER DR J D MURRAY AT THE UNIVERSITY OF WASHINGTON RESEARCH FOCUS CELL MIGRATION IN DEVELOPMENT AND CANCER - MICHAEL WASHBURN, PH D , DIREC TOR OF PROTEOMICS, JOINED SIMR IN 2003 FROM THE TORREY MESA RESEARCH INSTITUTE IN SAN DIEG O WHERE HE WAS A SENIOR STAFF SCIENTIST IN PROTEOMICS HE EARNED A PH D IN BIOCHEMISTRY A ND ENVIRONMENTAL TOXICOLOGY FROM MICHIGAN STATE UNIVERSITY BEFORE COMPLETING A POSTDOCTORA L FELLOWSHIP WITH PROFESSOR JOHN YATES, III IN THE DEPARTMENT OF MOLECULAR BIOTECHNOLOGY A T THE UNIVERSITY OF WASHINGTON RESEARCH FOCUS QUANTITATIVE PROTEOMICS AND PROTEIN COMPLE X DYNAMICS</p>

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As Filed Data -

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SCHEDULE R
(Form 990)

Department of the Treasury
Internal Revenue Service

Related Organizations and Unrelated Partnerships

▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37.

▶ Attach to Form 990.▶ Information about Schedule R (Form 990) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047

2016

Open to Public Inspection

Name of the organization
STOWERS INSTITUTE FOR MEDICAL RESEARCH

Employer identification number
20-2993509

Part I

Identification of Disregarded Entities

Complete if the organization answered "Yes" on Form 990, Part IV, line 33.

(a) Name, address, and EIN (if applicable) of disregarded entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Total income	(e) End-of-year assets	(f) Direct controlling entity

Part II

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.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Exempt Code section	(e) Public charity status (if section 501(c)(3))	(f) Direct controlling entity	(g) Section 512(b)(13) controlled entity?	
						Yes	No
(1)STOWERS SCIENTIFIC EDUCATION INSTITUTE 1000 EAST 50TH STREET KANSAS CITY, MO 64110 20-5916445	SUPPORT ORG	DE	501(C)(3)	12A-TYPE I	SIMR	Yes	
(2)STOWERS RESOURCE MANAGEMENTINC 1000 EAST 50TH STREET KANSAS CITY, MO 64110 41-2186719	SUPPORT ORG	DE	501(C)(3)	12A-TYPE I	SIMR	Yes	
(3)BIOMED VALLEY CORPORATION 1000 EAST 50TH STREET KANSAS CITY, MO 64110 74-3238244	SUPPORT ORG	DE	501(C)(3)	12A-TYPE I	SIMR	Yes	
(4)STOWERS REAL ESTATE HOLDING CORPORATION 1000 EAST 50TH STREET KANSAS CITY, MO 64110 26-1472230	TITLE HOLDING	DE	501(C)(2)	N/A	SRM	Yes	
(5)STOWERS POLICY INSTITUTE INC 1000 EAST 50TH STREET KANSAS CITY, MO 64110 20-3270502	SEE PART VII	DE	501(C)(4)	N/A	SIMR	Yes	
(6)THE GRADUATE SCHOOL OF SIMR 1000 EAST 50TH STREET KANSAS CITY, MO 64110 46-4588696	EDUCATION	MO	501(C)(3)	2	SIMR	Yes	

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.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Predominant income(related, unrelated, excluded from tax under sections 512- 514)	(f) Share of total income	(g) Share of end-of-year assets	(h) Disproportionate allocations?		(i) Code V-UBI amount in box 20 of Schedule K-1 (Form 1065)	(j) General or managing partner?		(k) Percentage ownership
							Yes	No		Yes	No	

Part IV 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.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Type of entity (C corp, S corp, or trust)	(f) Share of total income	(g) Share of end-of- year assets	(h) Percentage ownership	(i) Section 512(b) (13) controlled entity?	
								Yes	No
(1) BIOMED VALLEY DISCOVERIESINC 1000 EAST 50TH STREET KANSAS CITY, MO 64110 06-1646533	SEE PART VII	DE	BVC	C CORP				Yes	

Part V Transactions With Related Organizations Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.**Note.** Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule**1** During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?

	Yes	No
a Receipt of (i) interest, (ii) annuities, (iii) royalties, or (iv) rent from a controlled entity	1a Yes	
b Gift, grant, or capital contribution to related organization(s)	1b Yes	
c Gift, grant, or capital contribution from related organization(s)	1c Yes	
d Loans or loan guarantees to or for related organization(s)	1d	No
e Loans or loan guarantees by related organization(s)	1e	No
f Dividends from related organization(s)	1f	
g Sale of assets to related organization(s)	1g	No
h Purchase of assets from related organization(s)	1h	No
i Exchange of assets with related organization(s)	1i	No
j Lease of facilities, equipment, or other assets to related organization(s)	1j Yes	
k Lease of facilities, equipment, or other assets from related organization(s)	1k Yes	
l Performance of services or membership or fundraising solicitations for related organization(s)	1l	No
m Performance of services or membership or fundraising solicitations by related organization(s)	1m	No
n Sharing of facilities, equipment, mailing lists, or other assets with related organization(s)	1n Yes	
o Sharing of paid employees with related organization(s)	1o Yes	
p Reimbursement paid to related organization(s) for expenses	1p Yes	
q Reimbursement paid by related organization(s) for expenses	1q Yes	
r Other transfer of cash or property to related organization(s)	1r	No
s Other transfer of cash or property from related organization(s)	1s	No

2 If the answer to any of the above is "Yes," see the instructions for information on who must complete this line, including covered relationships and transaction thresholds

See Additional Data Table

(a) Name of related organization	(b) Transaction type (a-s)	(c) Amount involved	(d) Method of determining amount involved

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.

[illegible]

Part VII Supplemental Information

Provide additional information for responses to questions on Schedule R (see instructions)

Return Reference	Explanation
PART II, LINE 5, COLUMN B	STOWERS POLICY INSTITUTE INC ("SPI") IS AN ADVOCATE FOR A POLITICAL, ECONOMIC, AND SOCIAL ENVIRONMENT THAT ADVANCES AND PROTECTS BIOMEDICAL RESEARCH AND CURES
PART IV, LINE (1), COLUMN B	BIOMED VALLEY DISCOVERIES, INC 'S ("BVD") PRIMARY ACTIVITY IS DEVELOPMENT AND MARKETING OF SCIENTIFIC DISCOVERIES BIOMED VALLEY CORPORATION IS THE 100% SHAREHOLDER OF BVD
PART V, LINE 2 (1)	SIMR RECEIVES SUBLEASE PAYMENTS FROM BVD BASED ON COST FOR LESS THAN 300 SQ FT OF SPACE FOR A LIMITED USE PURPOSE THE RENT PAYMENTS FROM BVD TO SIMR DO NOT REDUCE BVD'S TAXABLE INCOME WHICH WOULD HAVE BEEN UBTI IF BVD WERE EXEMPT UNDER SECTION 501(c)(3) AND HAD THE SAME EXEMPT PURPOSE AS SIMR THEREFORE, NO PORTION OF THE RENT PAYMENTS FROM BVD CONSTITUTES UNRELATED BUSINESS INCOME TO SIMR UNDER SECTION 512(b)(13)
PART V, LINE 2 (2)	SIMR MADE A CONTRIBUTION TO THE GRADUATE SCHOOL OF SIMR
PART V, LINE 2 (3)	SRM PROVIDED FINANCIAL SUPPORT TO SIMR TO BE USED BY SIMR IN FURTHERANCE OF SIMR'S EXEMPT PURPOSE OF CONDUCTING MEDICAL RESEARCH
PART V, LINE 2 (4)	SSEI PROVIDED FINANCIAL SUPPORT TO SIMR TO BE USED BY SIMR IN FURTHERANCE OF SIMR'S EXEMPT PURPOSE OF CONDUCTING MEDICAL RESEARCH AND SCIENCE EDUCATION ACTIVITIES
PART V, LINE 2 (5)	SIMR ENTERED INTO A LEASE EFFECTIVE JANUARY 1, 2009 WITH STOWERS REAL ESTATE HOLDING CORPORATION ("SREHC"), A 501(C)(2) TAX EXEMPT ORGANIZATION THAT IS A RELATED PARTY TO SIMR THE LEASE HAS AN ORIGINAL TERM OF 10 YEARS WITH A PROVISION FOR ADDITIONAL OPTION YEARS FOR A 280,000 SQUARE FEET BUILDING SIMR'S LEASE PAYMENTS TO SREHC IN 2016 TOTALED \$2,230,551
PART V, LINE 2 (6)	SIMR REIMBURSED SRM FOR COSTS ASSOCIATED WITH SRM'S ADMINISTRATIVE AND SUPPORT SERVICES PROVIDED TO SIMR SRM IS A SUPPORTING ORGANIZATION TO SIMR
PART V, LINE 2 (7)	SIMR REIMBURSED BVD FOR SERVICES ON THE SERVICE COST METHOD
PART V, LINE 2 (8)	BVD REIMBURSED SIMR FOR SERVICES ON THE SERVICE COST METHOD
PART V, LINE 2 (9)	ALL OTHER TRANSACTIONS FOR LINE 1 WERE BETWEEN 501(C)(3) PUBLIC CHARITIES AND BELOW REPORTING THRESHOLDS

Additional Data

Software ID:
Software Version:
EIN: 20-2993509
Name: STOWERS INSTITUTE FOR MEDICAL RESEARCH

Form 990, Schedule R, Part II - Identification of Related Tax-Exempt Organizations

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Exempt Code section	(e) Public charity status (if section 501(c) (3))	(f) Direct controlling entity	(g) Section 512 (b)(13) controlled entity?	
						Yes	No
(1) 1000 EAST 50TH STREET KANSAS CITY, MO 64110 20-5916445	SUPPORT ORG	DE	501(C)(3)	12A-TYPE I	SIMR	Yes	
(1) 1000 EAST 50TH STREET KANSAS CITY, MO 64110 41-2186719	SUPPORT ORG	DE	501(C)(3)	12A-TYPE I	SIMR	Yes	
(2) 1000 EAST 50TH STREET KANSAS CITY, MO 64110 74-3238244	SUPPORT ORG	DE	501(C)(3)	12A-TYPE I	SIMR	Yes	
(3) 1000 EAST 50TH STREET KANSAS CITY, MO 64110 26-1472230	TITLE HOLDING	DE	501(C)(2)	N/A	SRM	Yes	
(4) 1000 EAST 50TH STREET KANSAS CITY, MO 64110 20-3270502	SEE PART VII	DE	501(C)(4)	N/A	SIMR	Yes	
(5) 1000 EAST 50TH STREET KANSAS CITY, MO 64110 46-4588696	EDUCATION	MO	501(C)(3)	2	SIMR	Yes	

Form 990, Schedule R, Part V - Transactions With Related Organizations

(a) Name of related organization		(b) Transaction type(a-s)	(c) Amount Involved	(d) Method of determining amount involved
(1)	BIOMED VALLEY DISCOVERIES INC	A	14,694	MARKET VALUE
(1)	THE GRADUATE SCHOOL OF SIMR	B	1,200,000	MARKET VALUE
(2)	STOWERS RESOURCE MANAGEMENT INC	C	60,000,000	MARKET VALUE
(3)	STOWERS SCIENTIFIC EDUCATION INSTITUTE	C	100,000	MARKET VALUE
(4)	STOWERS REAL ESTATE HOLDING CORP	K	2,230,551	MARKET VALUE
(5)	STOWERS RESOURCE MANAGEMENT INC	P	23,607,962	COST REIMB
(6)	BIOMED VALLEY DISCOVERIES INC	P	271,555	COST REIMB
(7)	BIOMED VALLEY DISCOVERIES INC	Q	641,488	COST REIMB
(8)	SEE PART VII FOR ADDITIONAL INFORMATION			