efile GRAPHIC print - DO NOT PROCESS As Filed Data -

## **Return of Organization Exempt From Income Tax**

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

DLN: 93493283009209 OMB No 1545-0047

Department of the Treasury Internal Revenue Service

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

▶ Information about Form 990 and its instructions is at <a href="www.irs.gov/form990">www.irs.gov/form990</a>

Open to Public Inspection

A F	or th	e <b>2017</b> ca	alendar year, or tax year be	ginning 12-01-2017 , and ending 11	L-30-20	18			
		pplicable	C Name of organization				D Employe	r ıdentıfı	ication number
☐ Ad	dress	change	VAN ANDEL RESEARCH INSTITU	E			52-2000	823	
□ Na		-	Doing business as				32 2000		
☐ Int		turn n/terminated	Doing business us						
		d return	Number and street (or P O box	f mail is not delivered to street address) Room	n/suite		E Telephone	number	
□ Ар	plicati	on pending	333 BOSTWICK AVENUE NE				(616) 23	4-5000	
				ountry, and ZIP or foreign postal code					
			GRAND RAPIDS, MI 49503				<b>G</b> Gross rece	eipts \$ 86	5,638,273
			F Name and address of princ	ıpal officer	H(	a) Is this	a group retu	urn for	
			TIMOTHY J MYERS  333 BOSTWICK AVENUE NE				linates?		□Yes ☑No
			GRAND RAPIDS, MI 49503		н(		subordinate	<u>'</u> S	☐ Yes ☐No
I Ta:	x-exer	mpt status	<b>☑</b> 501(c)(3) ☐ 501(c)()	<b>◄</b> (insert no )	,	include		st (see	instructions)
1 W	ehsit	te: > \//\/	/W VAI ORG	13 // (insert tile )	- 1		exemption r	•	•
			7712 OKO				•		
<b>K</b> Forr	n of o	rganization	☐ Corporation ☑ Trust ☐ A	ssociation ☐ Other ▶	L Ye	ear of format	tion 1996	<b>M</b> State	of legal domicile MI
Pa		Sumi							
			scribe the organization's mission RESEARCH ORGANIZATION	n or most significant activities					
Ce	:	HEDICAL	RESEARCH ORGANIZATION						
E	-								
Governance	-								
05				discontinued its operations or disposed only body (Part VI, line 1a)		than 25%	of its net as	sets <b>3</b>	5
	l							4	3
Ş.	l		·	of the governing body (Part VI, line 1b)			•	5	
툿	l		, ,	calendar year 2017 (Part V, line 2a)			•	<u> </u>	449
Activities &	l		nber of volunteers (estimate if	, ,			•	6	16
Q.	l			art VIII, column (C), line 12				7a	409,670
	ь	Net unrel	ated business taxable income f	rom Form 990-T, line 34	• •		•	7b	104,762
	_			41.5	-	Pric	r Year		Current Year
<u>g</u>	l		ions and grants (Part VIII, line	•			71,484,79		76,050,595
Rəvenue	l	-	service revenue (Part VIII, line		L		1,122,86		1,206,439
ę.	l		, , , ,	A), lines 3, 4, and 7d )	-		993,63		683,062
	l			nes 5, 6d, 8c, 9c, 10c, and 11e)			9,465,5		8,528,787
	_		<u></u>	must equal Part VIII, column (A), line 12	2)		83,066,84	_	86,468,883
	l		• •	K, column (A), lines 1–3 )	L		1,012,02	21	1,095,983
	14	Benefits p	paid to or for members (Part IX	, column (A), line 4)	L			0	0
${\mathfrak L}$	15	Salaries,	other compensation, employee	benefits (Part IX, column (A), lines 5–10	0)		36,040,4	59	39,942,174
Expenses	<b>16</b> a	Professio	onal fundraising fees (Part IX, c	olumn (A), line 11e)	L			0	0
Š	b	Total fundr	raising expenses (Part IX, column (D	), line 25) ▶ <u>9</u> 67,682	L				
ш	17	Other exp	penses (Part IX, column (A), lin	es 11a-11d, 11f-24e)	L		38,499,18	36	45,167,491
	18	Total exp	enses Add lines 13–17 (must e	equal Part IX, column (A), line 25)			75,551,66	56	86,205,648
	19	Revenue	less expenses Subtract line 18	from line 12			7,515,17	75	263,235
Net Assets or Fund Balances					-	Beginning o	of Current Ye	ar	End of Year
ets Tan		<b>-</b>	- (D 1)( 1 46)				247.224.24	26	220.000.025
Ass IB	l		ets (Part X, line 16)				247,321,20		229,968,935
₹ Ş	l		ulities (Part X, line 26)		-		329,139,78	_	299,912,525
			s or fund balances Subtract lir	le 21 from line 20			-81,818,58	33	-69,943,590
Par Under			ature Block	amined this return, including accompanyi	ına sche	dules and	statements	and to	the hest of my
know	edge	and belie		ete Declaration of preparer (other than o					
any k	nowle	edge							
						2019	-10-10		
Sign		Signati	ure of officer			Date			
Here	;	TIMOTE	HY J MYERS VICE PRESIDENT & CFC						
			r print name and title						
			rınt/Type preparer's name	Preparer's signature	Date			ΓIN	
Paid	t	LA	NNE FULTON	ANNE FULTON		Chec self-	k LJ if P( employed	00941863	; 
Pre		er 🗏	irm's name    DELOITTE TAX LLP				's EIN ▶ 86-1	065772	
Use		1 -	irm's address ► 200 RENAISSANCE	CENTER STE 3900		Phor	ne no (313) 39	96-3000	
			DETROIT, MI 4824	3					
May t	he IR	S discuss	this return with the preparer s	hown above? (see instructions)				<b>✓</b> Y	'es 🗌 No
			duction Act Notice, see the s	· · · · · · · · · · · · · · · · · · ·		Cat No 1:	1282Y		Form <b>990</b> (2017)

Form	990 (20	017)					Page <b>2</b>
Par	t III	Statement of	of Program Servi	ce Accomplis	hments		
		Check If Sched	lule O contains a resp	onse or note to a	any line in this Part III .		🗹
1	Briefly	describe the or	ganızatıon's mıssıon				
					TITUTE IS AN INDEPENDI RENT AND FUTURE GENE		ORGANIZATION COMMITTED
2		-	, ,	. 3	vices during the year whi	ch were not listed on	☐ Yes ☑ No
	If "Yes	s," describe thes	se new services on Sc	hedule O			
3	Did the	e organization c	ease conducting, or r	nake significant i	changes in how it conduc	ts, any program	
	service	es?					. 🗌 Yes 🗹 No
	If "Yes	s," describe thes	se changes on Schedu	le O			
4	Section	n 501(c)(3) and		ons are required	to report the amount of	rgest program services, as m grants and allocations to othe	
4a	(Code		) (Expenses \$	9,527,469	including grants of \$	123,733 ) (Revenue \$	45,447 )
	See Ad	ditional Data					
4b	(Code		) (Expenses \$	10,815,000	including grants of \$	938,184 ) (Revenue \$	188,097 )
	See Ad	dıtıonal Data					
4c	(Code		) (Expenses \$	6,383,212	ıncludıng grants of \$	19,566 ) (Revenue \$	220,375 )
	See Ad	dıtıonal Data					
	(Code		) (Expenses \$	32,313,516	including grants of \$	14,500 ) (Revenue \$	752,520 }
4d	Other	program service	es (Describe in Sched				
	(Evpe	nses \$	32,313,516 inc	luding grants of	\$ 14,50	0 ) (Revenue \$	752,520 )
	(LXPe	· · · · · · · · · · · · · · · · · · ·				<u> </u>	

or X as applicable

**Checklist of Required Schedules** 

to provide advice on the distribution or investment of amounts in such funds or accounts?

a Did the organization report an amount for land, buildings, and equipment in Part X, line 10?

12a Did the organization obtain separate, independent audited financial statements for the tax year? 

foreign organization? If "Yes," complete Schedule F, Parts II and IV . . . . . .

or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV . . .

Did the organization receive or hold a conservation easement, including easements to preserve open space,

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

Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments,

c Did the organization report an amount for investments—program related in Part X, line 13 that is 5% or more of its

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

Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D. Part X 🔧

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 🛸

If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional 🕏

Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to

Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX,

Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII,

Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes,"

ın Part X, line 16? *If "Yes," complete Schedule D, Part IX* 😼 . . . . . . . . . . . . . . . .

b Was the organization included in consolidated, independent audited financial statements for the tax year?

Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E

**14a** Did the organization maintain an office, employees, or agents outside of the United States? . . .

column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I (see instructions) . . . . .

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 . . . . . . . . . . . . . Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any

b Did the organization report an amount for investments—other securities in Part X, line 12 that is 5% or more of its total

permanent endowments, or quasi-endowments? If "Yes," complete Schedule D, Part V 🕏 . . . . . . . If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VIII, VIII, IX,

the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II 🛸 🔒 Did the organization maintain collections of works of art, historical treasures, or other similar assets?

assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII 💆 . . . . . . . .

Page 3

No

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11a

11b

11c

11d

11e

11f

12a

12b

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14a

14h

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Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

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Form **990** (2017)

Yes

Nο Νo Nο Nο Nο Nο Nο No

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28b

28c

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35a

35b

36

37

Yes

Yes

Yes

Yes

Yes

Form 990 (2017)

Part IV	Checklist of Required Schedules	(continued)

25a Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations.

instructions for applicable filing thresholds, conditions, and exceptions)

			Yes	No
20a	Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H	20a		No
b	If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b		
21	Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? If "Yes," complete Schedule I, Parts I and II	21	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? If "Yes," complete Schedule I, Parts I and III	22	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>	23	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? If "Yes," answer lines 24b through 24d and complete Schedule K If "No," go to line 25a	24a	Yes	
b	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b		No
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?	24c		No

**d** Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year? . . .

that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ?

officer, director, trustee, or direct or indirect owner? If "Yes," complete Schedule L, Part IV

within the meaning of section 512(b)(13)? If "Yes," complete Schedule R, Part V, line 2 . . . 🛸

is treated as a partnership for federal income tax purposes? If "Yes," complete Schedule R, Part VI 🛸

Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets?

35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?

Did the organization engage in an excess benefit transaction with a disqualified person during the year? If "Yes,"

b Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and

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?

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

Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV

b A family member of a current or former officer, director, trustee, or key employee? If "Yes," complete Schedule L, Part

An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an

Did the organization receive more than \$25,000 in non-cash contributions? If "Yes," complete Schedule M . . . 🥞

Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation

Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections

Was the organization related to any tax-exempt or taxable entity? If "Yes," complete Schedule R, Part II, III, or IV, and

b If 'Yes' to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity

Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related

Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that

Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 197 Note.

Did the organization liquidate, terminate, or dissolve and cease operations? If "Yes," complete Schedule N, Part I .

orm	990 (2017)			Page
Par	t V Statements Regarding Other IRS Filings and Tax Compliance			
	Check if Schedule O contains a response or note to any line in this Part V			
			Yes	No
	Enter the number reported in Box 3 of Form 1096 Enter -0- if not applicable 1a 161			
b	Enter the number of Forms W-2G included in line 1a Enter -0- if not applicable 1b 0			
С	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	<b>1</b> c		
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			
L		2b	Yes	
D	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)	20	103	
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a	Yes	
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	Yes	
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)	70		NO
	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
С	If "Yes," to line 5a or 5b, did the organization file Form 8886-T?	5c		
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?	6а		No
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	<b>6</b> b		
7	Organizations that may receive deductible contributions under section 170(c).			
а	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	Yes	
	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	Yes	
	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			
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		
	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		
0	Section 501(c)(7) organizations. Enter			
а	Initiation fees and capital contributions included on Part VIII, line 12   10a			
ь	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities 10b			
1	Section 501(c)(12) organizations. Enter			
	Gross income from members or shareholders			
ь	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them )			
2a	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			
3	Section 501(c)(29) qualified nonprofit health insurance issuers.			
	Is the organization licensed to issue qualified health plans in more than one state? <b>Note.</b> See the instructions for additional information the organization must report on Schedule O	13a		
	Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans			
	Enter the amount of reserves on hand			
	Did the organization receive any payments for indoor tanning services during the tax year?	14a		No
ь	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O	14b		1

OHIII	990 (2017)					Page C
Par		nce, Management, and DisclosureFor each "Yes" response to lines 2 thi 10b below, describe the circumstances, processes, or changes in Schedul		" respo	nse to li	nes
	Check If S	Schedule O contains a response or note to any line in this Part VI				✓
Se	ction A. Gove	rning Body and Management				
					Yes	No
1a	Enter the number	er of voting members of the governing body at the end of the tax year	<b>1a</b> 5			
	body, or if the g	erial differences in voting rights among members of the governing overning body delegated broad authority to an executive committee or ee, explain in Schedule O				
b	Enter the number	er of voting members included in line 1a, above, who are independent	<b>1b</b> 4			
2		director, trustee, or key employee have a family relationship or a business trustee, or key employee?	relationship with any other	2	Yes	
3		ation delegate control over management duties customarily performed by o tors or trustees, or key employees to a management company or other pe		3		No
4	Did the organiza	ition make any significant changes to its governing documents since the pi	rior Form 990 was filed?	4		No
5	Did the organiza	ation become aware during the year of a significant diversion of the organiz	zation's assets?	5		No
6	-	ation have members or stockholders?		6		No
	-	ation have members, stockholders, or other persons who had the power to	elect or appoint one or more			
		governing body?		7a	Yes	
b		ance decisions of the organization reserved to (or subject to approval by) roan the governing body?	members, stockholders, or	7b		No
8	Did the organiza the following	ation contemporaneously document the meetings held or written actions ur	ndertaken during the year by			
а	The governing b	ody?		8a	Yes	
b	Each committee	with authority to act on behalf of the governing body?		<b>8</b> b	Yes	
9	Is there any office organization's m	cer, director, trustee, or key employee listed in Part VII, Section A, who ca aailing address? <i>If "Yes," provide the names and addresses in Schedule O</i>	annot be reached at the	9		No
Se	ection B. Polici	ies (This Section B requests information about policies not requir	ed by the Internal Revenue	e Code	⊋.)	
					Yes	No
	_	ition have local chapters, branches, or affiliates?		10a		No
b		organization have written policies and procedures governing the activities ensure their operations are consistent with the organization's exempt pur		10b		
	form?	ation provided a complete copy of this Form 990 to all members of its gove		11a	Yes	
b	Describe in Sche	edule O the process, if any, used by the organization to review this Form 9	90			
12a	Did the organiza	ation have a written conflict of interest policy? If "No," go to line 13		12a	Yes	
Ь	Were officers, di conflicts?	rectors, or trustees, and key employees required to disclose annually inter	rests that could give rise to	12b	Yes	
С		ition regularly and consistently monitor and enforce compliance with the parties of this was done	olicy? If "Yes," describe in	12c	Yes	
13	Did the organiza	ation have a written whistleblower policy?		13	Yes	
14	Did the organiza	ation have a written document retention and destruction policy? $\cdot\cdot\cdot$		14	Yes	
15	Did the process persons, compar	for determining compensation of the following persons include a review ar rability data, and contemporaneous substantiation of the deliberation and	nd approval by independent decision?			
а	The organization	i's CEO, Executive Director, or top management official $\cdot\cdot$		15a	Yes	
Ь	Other officers or	key employees of the organization		15b	Yes	
	If "Yes" to line 1	5a or 15b, describe the process in Schedule O (see instructions)				
	taxable entity di	<del>-</del> · ·		16a		No
b	ın joint venture	organization follow a written policy or procedure requiring the organizatio arrangements under applicable federal tax law, and take steps to safeguar ect to such arrangements?				
	·			16b		
	ection C. Disclo					
17	LIST THE STATES W	vith which a copy of this Form 990 is required to be filed▶ MI				
18		quires an organization to make its Form 1023 (or 1024 if applicable), 990, blic inspection. Indicate how you made these available. Check all that apply				
	Own websit	e 🗌 Another's website 🗹 Upon request 🔲 Other (explain in Sch	edule O)			
19		edule O whether (and if so, how) the organization made its governing docu icial statements available to the public during the tax year	uments, conflict of interest			
20		address, and telephone number of the person who possesses the organiza ERS VP & CFO 333 BOSTWICK AVENUE NE GRAND RAPIDS, MI 4950325				

Part VII

## Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees,

and Independent Contractors

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

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

1a Complete this table for all persons required to be listed Report compensation for the calendar year ending with or within the organization's tax

- 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)
- 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

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

List persons in the following order individual trus compensated employees, and former such person	stees or directo		-					-		
Check this box if neither the organization no		raanizat	ion c	omr	ens	ated a	nv r	current officer dire	ctor or trustee	
(A) Name and Title	(B) Average hours per week (list any hours	Position than o	on (de one be	(C o no ox, u n of	) t ch unle ficei	eck mess pers	ore son	(D) Reportable compensation from the organization	(E) Reportable compensation from related organizations	(F) Estimated amount of other compensation from the
	for related organizations below dotted line)	individual trustee or director	Institutional Trustee	Officer	key employee	Highest compensated employee	Former	(W- 2/1099- MISC)	(W- 2/1099- MISC)	organization and related organizations
(1) DAVID VAN ANDEL	36 00	х		x				400 227	0	120 226
CHAIRMAN / CEO	17 00							490,327	0	129,226
(2) DR JAMES FAHNER TRUSTEE	1 00	Х						10,000	2,000	0
(3) DR RALPH WEICHSELBAUM TRUSTEE (ENDED 09/10/18)	1 00	х						9,000	0	0
(4) DR MAX WICHA	1 00	Х						12,000	0	0
TRUSTEE	0 00							13,000	0	
(5) DR MICHELLE LEBEAU	1 00	×						10,000	0	0
TRUSTEE	0 00							10,000		
(6) DR TOM DEMEESTER TRUSTEE	1 00	Х						10,000	0	0
(7) DR JANA HALL CHIEF OPERATIONS OFFICER	50 00 3 00			х				423,365	0	147,856
(8) TIMOTHY MYERS V P & CHIEF FINANCIAL OFFICER	50 00 3 00			х				308,792	0	107,081
(9) DR PETER JONES CHIEF SCIENTIFIC OFFICER & RES DIR	52 00 0 00				x			712,053	0	202,298
(10) KATHY VOGELSANG CHIEF INVESTMENT OFFICER	45 00 0 00					×		610,494	0	371,506
(11) DR PATRIK BRUNDIN ASSOCIATE RESEARCH DIRECTOR	45 00 0 00					×		488,766	0	115,385
(12) DR PETER LAIRD INVESTIGATOR	45 00 0 00					×		403,258	0	58,817
(13) DR GERD PFEIFER INVESTIGATOR	45 00 0 00					×		360,876	0	46,218
(14) TED HEILMAN ASSOC DIRECT-SR PORTFOLIO MGR	45 00					×		406,010	0	229,054
(15) DR GEORGE VANDE WOUDE TRUSTEE/INVESTIGATOR	0 00						х	269,298	0	28,352
(16) DAVID WHITESCARVER FORMER SECRETARY/V P	0 00						х	295,363	0	0
	0 00	<b> </b>	<del></del>	$\vdash$	$\vdash$	<del></del>	-	<b> </b>		

PO BOX 371461

PITTSBURGH, PA 152512125

PRESIDIO NETWORK SOLUTIONS GROUP LLC

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

Page 8

Part V	Section A. Officers, Direct	Tors, Trustees	ر Key	Emp	Joye	es,	allu	ліуі	lest Compe	IIsate	u Lilipioyees (	COIL	tiriueu)	
	<b>(A)</b> Name and Title	(B) Average hours per week (list any hours	than o	one b	ox, u an off	t che unles fficer	neck mo ess pers r and a tee)	son	(D) Reportab compensat from the organization	ition ie n (W-	(E) Reportable compensation from related organizations (V	w-	( <b>F</b> ) Estima amount c compen from	ated of other asation the
		for related organizations below dotted line)		Institutional Trustee	Officer	Key employee	Highest compensate	Former	- 2/1099-MI	:SC)	2/1099-MISC)	,	organizat relat organiza	ted
			trustee	al Trustee		990	mpensated							
				$\vdash$								1		
					Ľ	d						$\perp$		
			-	_		<u> </u>	_	<u>                                     </u>				$\dashv$		
												$\downarrow$		
			-	_	<u>                                     </u>	<u> </u>	_	<u>                                     </u>	<del> </del>			$\dashv$		
c Tota	o-Total			•			<b>*</b>	<u> </u>	4,820,6	502	2,000			1,435,793
<b>2</b> To	otal number of individuals (including freportable compensation from the		to thos		ed a	bove	e) who	rec			<u> </u>	<u>-1</u>		1,455,755
	· ·											_	Yes	No
	nd the organization list any <b>former</b> on the large of the			:ee, k	ey er	mplc •	эуее, с • •	or hig	ghest compen	nsated	employee on	3	Yes	
or	or any individual listed on line 1a, is rganization and related organization: odividual										ı the	4	Vos	
<b>5</b> Di	id any person listed on line 1a receivervices rendered to the organization					,			-		vidual for	5	100	No
	ion B. Independent Contract			—	—	—		—				<u> </u>		110
<b>1</b> Co	omplete this table for your five higher from the organization Report comper	nest compensate										nper	nsation	
	Name a	(A) and business addre		<u> </u>						Descr	(B) ription of services		(C Comper	nsation
DK SECUI									SECO	JRITY Si	ERVICES			305,357
KENTWO	CONVIEW AVE SE OD, MI 49512													
MS K710				_	_	_		_	SCIE	NTIFIC	SERVICES			242,520
LOS ALAM	MOS, NM 87545 GAN COMPANY INC								пам		ICE SERVICES		<del> </del>	161,534
2001 WAI	LDROF NW SUITE 200								lipris	HEINAIN	SE SERVICES			101,334
	RAPIDS, MI 49544 EXPRESS								SHIP	PPING SE	ERVICE			151,422

CONSULTING SERVICES

149,911

Part \		I Statement of	Revenue								rage <b>3</b>
				a respo	onse or note to any	line in t	hıs Part VIII				🗆
						(	(A) revenue	( <b>B</b> Relate exen funct	ed or npt	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections
	<b>1</b> a	Federated campaign	ns	1a	<u> </u>			rever	nue		512-514
ributions, Gifts, Grants Other Similar Amounts		<b>b</b> Membership dues .		1b	<u>                                     </u>						
ira nou		c Fundraising events		1c	76,554						
S. ( An		d Related organization		1d	54,765,920						
Gift ilar		e Government grants (co		1e	15,455,493						
S. E		F All other contributions,		_ <u></u> -							
Contributions, Giffs, Grants and Other Similar Amounts	'	and similar amounts no above		1f	5,752,628						
턜	,	g Noncash contributio	ns included								
Contr and C		ın lınes 1a-1f \$		10,0	053						
<u>ة</u> ك	_ h	Total.Add lines 1a-1	f		<u> </u>	76	5,050,595				
ᆲ					Business						
Service Revenue	2a	RESEARCH BILLED REV				541700	1,2	06,439	796,83	1 409,6	08
oŽ 1	b			_							+
<u>ٽ</u> ج	C										+
₹.	d										
ram	e f	All other program ser									
Program		, ,			1,2	06,439					
_		Total.Add lines 2a–2f  Investment income (ir			unterest and other	1		1		1	
		similar amounts) .			• • • • • • • • • • • • • • • • • • •		611,040				611,040
		Income from investme		•	•	<u> </u>	760.044				760.040
	5	Royalties I			<b>&gt;</b>		769,948	3			769,948
	62	Gross rents	(ı) Rea	I	(II) Personal	-					
	- Cu	O O O O O O O O O O O O O O O O O O O	Ž	08,181							
	Ь	Less rental expenses									
	c	; Rental income or		74,354		┨					
		(loss)				_	74.25				
	d	Net rental income oi				<u> </u>	74,354	1		62	74,292
	7a	Gross amount	(ı) Securit	ies	(II) Other	1					
		from sales of assets other			85,282	2					
		than inventory									
	b	Less cost or other basis and			13,260						
	_	sales expenses			72,022						
		Gain or (loss)  Net gain or (loss)			<u> </u>	1	72,022	2			72,022
		Gross income from fu		ents		$\vdash$					<u> </u>
e n		·	76,554	of							
Other Revenue		contributions reporte See Part IV, line 18		a	7,940						
Re	b	Less direct expenses	s	b	22,303						
ē	c	: Net income or (loss)	from fundrais	ing ev	ents		-14,363	3			-14,363
₽	9a	Gross income from g See Part IV, line 19		es							
		,		а	1						
	b	Less direct expenses	s	Ь		]					
		: Net income or (loss)		activit	ies <b>&gt;</b>						
	10a	Gross sales of invent returns and allowanc									
				а							
	b	Less cost of goods s	old	b							
	C	Net income or (loss)  Miscellaneous		invent	Business Code						
	11	·aALLOCATED ADMIN			561000	-	7,454,379	9			7,454,379
		7,220 C/ (125 / (5) 11/4	270								
	ь	REIMBURSED EXPEN	ISES		900099		89,238	3			89,238
	c	:									
	d	All other revenue .					155,23	L			155,231
	e	<b>Total.</b> Add lines 11a	-11d				7,698,848	3			
	12	<b>Total revenue.</b> See	Instructions						706 021	400 670	0 244 707
					•		86,468,883	?[	796,831	409,670	9,211,787 Form <b>990</b> (2017)

Form	990 (2017)				Page <b>10</b>
	t IX Statement of Functional Expenses on 501(c)(3) and 501(c)(4) organizations must complete all co	olumns All other orga	inizations must comp	lete column (A)	
	Check if Schedule O contains a response or note to any	-	·		П
	not include amounts reported on lines 6b, Bb, 9b, and 10b of Part VIII.	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraisingexpenses
1	Grants and other assistance to domestic organizations and domestic governments See Part IV, line 21	827,751	827,751	3	
	Grants and other assistance to domestic individuals See Part IV, line 22	217,006	217,006		
3	Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, line 15 and 16	51,226	51,226		
4	Benefits paid to or for members				
5	Compensation of current officers, directors, trustees, and key employees	2,283,411	806,925	1,476,486	
6	Compensation not included above, to disqualified persons (as defined under section $4958(f)(1)$ ) and persons described in section $4958(c)(3)(B)$				
7	Other salaries and wages	29,071,924	17,890,164	10,590,249	591,511
8	Pension plan accruals and contributions (include section 401 (k) and 403(b) employer contributions)	2,661,929	1,587,253	1,025,387	49,289
9	Other employee benefits	4,044,566	2,411,691	1,557,985	74,890
10	Payroll taxes	1,880,344	1,121,210	724,317	34,817
11	Fees for services (non-employees)				
a	Management				
	Legal	460,633	45,459	415,174	
	Accounting	71,053		71,053	
	Lobbying	96,000		96,000	
	Professional fundraising services See Part IV, line 17			,	
	Investment management fees				
	Other (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O)	2,337,221	1,801,631	514,677	20,913
12	Advertising and promotion	760,537	29,289	586,536	144,712
	Office expenses	150,365	54,671	95,634	60
	Information technology	340,238	162,710	172,387	5,141
	Royalties		,		-,
	Occupancy	2,604,067	2,067,187	535,615	1,265
		743,796	520,941	200,269	22,586
	Travel	743,790	320,541	200,209	22,380
10	Conferences, conventions, and meetings	182,155	113,331	63,337	5,487
	Interest	10,760,495	7,999,832	2,760,663	3,107
	Payments to affiliates	10,700,133	7,555,652	2,700,003	
	Depreciation, depletion, and amortization	10,976,842	9,408,576	1,568,266	
	Insurance	533,115	333,064	200,051	
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 )	333,113	335,004	200,031	
ā	FED / STATE INCOME TAX	135,824	0	135,824	
-					
ŀ	LAB SUPPLIES & SERVICES	5,162,377	5,162,377		
•	EQUIPMENT & SOFTWARE	3,794,364	2,762,597	1,030,455	1,312
ď	BAD DEBT EXPENSE (ADJUS	1,572,658		1,572,658	
•	All other expenses	4,485,751	3,664,306	805,746	15,699
25	Total functional expenses. Add lines 1 through 24e	86,205,648	59,039,197	26,198,769	967,682
26	Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation				

Form **990** (2017)

Check here ▶ ☐ If following SOP 98-2 (ASC 958-720)

3

Assets

11

12

13

14

15

16

17

18

19

20

8,076,049

4,270,243

3,969,006

1.697.944

157,198

1,544,611

183.460.299

7.153.585

19.640.000

229.968.935

32,511,690

2,256,713

219,733,588

45.410.534

299,912,525

-74,444,439

3.867,142

-69,943,590

229.968.935

Form **990** (2017)

633,707

(B)

End of year

1

2

3

4

5

6

8

9

10c

11

12

13

14

15

16

17

18

19

20

21

22 23

24

25

26

27

28

29

30

31

32

33

34

8.597.139

3,382,233

6,269,641

42,645

184,886,459

5.108.311

37,840,000

247,321,206

49,184,301

1,340,635

219,722,640

58.892.213

329,139,789

-85.638.212

3.153.327

-81,818,583

247.321.206

666.302

Page **11** 

1	Cash-non-interest-
2	Savings and tempo

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

bearing . Pledges and grants receivable, net . . .

Prepaid expenses and deferred charges . 10a Land, buildings, and equipment cost or other

Investments—publicly traded securities .

Investments—other securities See Part IV, line 11 . . .

Investments—program-related See Part IV, line 11 .

Tax-exempt bond liabilities . . . . . .

**Total assets.**Add lines 1 through 15 (must equal line 34) . . .

Retained earnings, endowment, accumulated income, or other funds

basis Complete Part VI of Schedule D

Intangible assets . . . . .

Accounts payable and accrued expenses

b Less accumulated depreciation

Grants payable . . .

Deferred revenue . . . .

Total net assets or fund balances

Total liabilities and net assets/fund balances .

porary cash investments . . . 

Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees Complete Part II of Schedule L . . . . . . .

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 Notes and loans receivable, net . .

Inventories for sale or use .

10a

10b

293,053,446

109.593.147

1.194.778

(A)

Beginning of year

Liabilities Fund Balances Assets or

32

33

34

Net

### 21 Escrow or custodial account liability Complete Part IV of Schedule D 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 . . 23 Secured mortgages and notes payable to unrelated third parties . . . 24 Unsecured notes and loans payable to unrelated third parties . Other liabilities (including federal income tax, payables to related third parties, 25 and other liabilities not included on lines 17-24) Complete Part X of Schedule D 26 Total liabilities. Add lines 17 through 25 . . Organizations that follow SFAS 117 (ASC 958), check here 🕨 🗹 and complete lines 27 through 29, and lines 33 and 34. 27 Unrestricted net assets 28 Temporarily restricted net assets 29 Permanently restricted net assets Organizations that do not follow SFAS 117 (ASC 958), check here and complete lines 30 through 34. 30 Capital stock or trust principal, or current funds . . . . 31 Paid-in or capital surplus, or land, building or equipment fund . . .

Page **12** 

2b

3a

3b

Yes

Yes

Yes

Yes Form 990 (2017)

Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A)) . . . 4 5 

Form 990 (2017)

**Reconcilliation of Net Assets** 

Part XI

6 7

5 2.172 8 Other changes in net assets or fund balances (explain in Schedule O) . . . . . . . . . 9

11,609,586 10 Net assets or fund balances at end of year Combine lines 3 through 9 (must equal Part X, line 33, column (B)) 10 -69,943,590 Part XII **Financial Statements and Reporting** Check if Schedule O contains a response or note to any line in this Part XII . . . .

Yes No ☐ Cash ☑ Accrual ☐ Other 1 Accounting method used to prepare the Form 990

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? 2a Nο 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 ☐ Separate basis Consolidated basis ☐ Both consolidated and separate basis

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 Consolidated basis ☐ Both consolidated and separate basis ☐ Separate basis

b Were the organization's financial statements audited by an independent accountant?

Audit Act and OMB Circular A-133?

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? 2c If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O

3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single

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

### **Additional Data**

Software ID: Software Version:

CENTER FOR CANCER AND CELL BIOLOGY SCHEDULE O PROVIDES FURTHER INFORMATION REGARDING THIS PROGRAM'S ACCOMPLISHMENTS

**EIN:** 52-2000823

Form 990, Part III, Line 4a:

Form 990 (2017)

Name: VAN ANDEL RESEARCH INSTITUTE

### Form 990, Part III, Line 4b: CENTER FOR EPIGENETICS SCHEDULE O PROVIDES FURTHER INFORMATION REGARDING THIS PROGRAM'S ACCOMPLISHMENTS.

### Form 990, Part III, Line 4c: CENTER FOR NEURODEGENERATIVE SCIENCESEE SCHEDULE O FOR FURTHER INFORMATION ABOUT THIS PROGRAM'S ACCOMPLISHMENTS

efil	e GR/	APHIC prii	it - DO NOT PRO	CESS	As Filed Data -				3493283009209
SCI	HED	ULE A	Pul	olic C	harity Statu	s and Put	olic Supp		OMB No 1545-0047
(For 990E	m 99 ( <b>Z</b> )	0 or		f the or	ganization is a sect 4947(a)(1) nonexe Attach to Form	ion 501(c)(3) c empt charitable	organization or trust.	l l	2017
nterns	l Reven	f the Treasury		n about	Schedule A (Form			ctions is at	Open to Public Inspection
lam	e of th	<b>he organiza</b> RESEARCH INS						Employer identific	ation number
				<u> </u>	(41)			52-2000823	
	rt I		for Public Charity a private foundation b					see instructions.	
1	- gamz		onvention of churche		•	•	•	(A)(i)	
2		·						(~)(-).	
			scribed in <b>section 1</b>			·	, ,		
3	Ш	·	or a cooperative hosp		•			•	
4	✓		and state		d in conjunction with  The state of the stat	a hospital descri	bed in <b>section</b> :	170(b)(1)(A)(iii). E	nter the hospital's
5		An organiza	ation operated for the	benefit	·	rsity owned or op	perated by a gov	ernmental unit descri	bed in <b>section 170</b>
6	$\Box$		( <b>iv).</b> (Complete Part tate, or local governr	•	governmental unit de	escribed in <b>sectio</b>	n 170/h)/1)/4	1(v)	
7		An organiza		ceives a	substantial part of it			nit or from the genera	al public described in
8			ty trust described in :	•	•	(Complete Part I	I)		
9			ural research organiza ant college of agricul					with a land-grant coll college or university	ege or university or a
10		from activit	ies related to its exei	mpt fund d busine	tions—subject to cer ss taxable income (le	taın exceptions, a	and (2) no more	is, membership fees, than 331/3% of its su ses acquired by the c	ipport from gross
L1		An organiza	ation organized and o	perated	exclusively to test fo	r public safety S	ee section 509	(a)(4).	
12		more public		ations de	escribed in <b>section 5</b>	<b>09(a)(1)</b> or sec	tion 509(a)(2	s of, or to carry out th ). See <b>section 509(</b> a s 12e 12f and 12g	
а		<b>Type I.</b> A so	supporting organization organization (s) the power to reg	on opera Jularly ap	ted, supervised, or c	ontrolled by its si	upported organiz	zation(s), typically by of the supporting orga	
b		<b>Type II.</b> A manageme	nt of the supporting (	ion supe organizat	tion vested in the sar			organization(s), by hav ge the supported orga	
с		Type III f	plete Part IV, Section protionally integrate proganization(s) (see i	t <b>ed.</b> A su	ipporting organizatio			nd functionally integra	ted with, its
d		Type III n	on-functionally int	egrated Inization	. A supporting organi generally must satis	ization operated i fy a distribution i	in connection wi requirement and	th its supported orgar an attentiveness req	
е		Check this	box if the organizatio	n receiv	ed a written determir	nation from the II		pe I, Type II, Type II	I functionally
f	Enter		or Type III non-function of supported organized	,	ntegrated supporting	organization			
g			ing information abou		pported organization(	s)			
		Name of supports	orted (ii)		(iii) Type of organization (described on lines 1- 10 above (see instructions))	(iv) Is the orga in your govern		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
						Yes	No		
			L						
Tota		work Reduc						1	I

instructions

	(Complete only if you che						ty under Part
_	III. If the organization fai	is to quality ur	ider the tests is	sted below, pleas	se complete Pan	t III.)	
	Section A. Public Support  Calendar year		1	I	I		
	(or fiscal year beginning in) ▶	(a) 2013	<b>(b)</b> 2014	(c) 2015	(d) 2016	(e) 2017	(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	<b>Total.</b> 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						
0	line 4						
_	Section B. Total Support		1	1			
	Calendar year						
	(or fiscal year beginning in) ▶	(a)2013	<b>(b)</b> 2014	(c)2015	(d)2016	(e)2017	<b>(f)</b> 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	<b>Total support.</b> Add lines 7 through 10						
12	Gross receipts from related activities, e	to (see instructi	nns)		L	12	
				1.6 11 601			
13	First five years. If the Form 990 is for	=			= -		_
	check this box and stop here					<u> ▶ L</u>	
S	section C. Computation of Public	<b>Support Perc</b>	entage				
14	Public support percentage for 2017 (line	e 6, column (f) d	ivided by line 11,	column (f))		14	
	Public support percentage for 2016 Sch					15	
	33 1/3% support test—2017. If the			on line 13, and lin	ie 14 is 33 1/3% oi		hox
100	and <b>stop here.</b> The organization qualif						
	33 1/3% support test—2016. If the				and line 1E ic 22 i	/20/- or more chas	ele +bec
E					and line 15 is 55 1	7370 OF HIOTE, CHEC	.K UIIS
	box and <b>stop here.</b> The organization	qualifies as a pul	olicly supported or	ganızatıon			▶⊔
<b>17</b> a	10%-facts-and-circumstances test-						
	is 10% or more, and if the organization						
	in Part VI how the organization meets t	he "facts-and-cir	cumstances" test	The organization	qualifies as a publi	icly supported	
	organization						▶ □
h	10%-facts-and-circumstances test	<b>—2016.</b> If the d	rganization did no	t check a box on li	ne 13, 16a, 16b, d	or 17a, and line	
_	15 is 10% or more, and if the organiza						
	Explain in Part VI how the organization	n meets the "fact	s-and-circumstan	ces" test. The orga	nization qualifies	as a publicly	
	supported organization						▶ □
18	Private foundation. If the organization	n did not check a	a box on line 13, 1	.6a, 16b, 17a, or 1	7b, check this box	and see	

P	art III Support Schedule for					d ka awalifi wad	ou Doub II If
	(Complete only if you on the organization fails to						er Part II. If
Se	ection A. Public Support			,		,	
	Calendar year	(a) 2013	<b>(b)</b> 2014	(c) 2015	(d) 2016	(e) 2017	(f) Total
1	(or fiscal year beginning in) ► 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 Gross receipts from activities that are						
3	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 70	<b>Total.</b> Add lines 1 through 5 Amounts included on lines 1, 2, and						
<i>7</i> a	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						
	Add lines 7a and 7b						
8	<b>Public support.</b> (Subtract line 7c from line 6 )						
Se	ection B. Total Support	1	I	l			l
	Calendar year	(a) 2013	<b>(b)</b> 2014	(c) 2015	(d) 2016	(e) 2017	(f) Total
	(or fiscal year beginning in) ▶	(a) 2013	(6) 2014	(6) 2015	(d) 2016	(e) 2017	(f) Total
9	7 III 10 III III						
10a	Gross income from interest, dividends, payments received on						
	securities loans, rents, royalties and						
	income from similar sources						
Ь	Unrelated business taxable income (less section 511 taxes) from						
	businesses acquired after June 30,						
	1975						
	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							
	11, and 12)  First five years. If the Form 990 is for	the organization	's first second th	urd fourth or fift	h tay yaar as a sa	stion 501(c)(3) o	rganization
14	check this box and <b>stop here</b>	or the organization	i s ili sc, secolia, ci	ma, rouran, or me	ii tax year as a se	ection 301(c)(3) 0	► □
Se	ection C. Computation of Public	Support Perce	entage				<u> </u>
15	Public support percentage for 2017 (III			column (f))		15	
16	Public support percentage from 2016 S	Schedule A, Part I	II, line 15			16	
	ection D. Computation of Invest	ment Income	Percentage			1 1	
17	Investment income percentage for 20	<b>17</b> (line 10c, colu	mn (f) divided by	lıne 13, column (f	())	17	
18	Investment income percentage from 2	<b>2016</b> Schedule A,	Part III, line 17			18	
19a	331/3% support tests—2017. If the	organization did r	not check the box	on line 14, and lir	ne 15 is more than	33 1/3%, and lin	e 17 is not
	more than 33 1/3%, check this box and	<b>stop here.</b> The o	rganızatıon qualıfı	es as a publicly si	upported organiza	tion	▶ □
b	33 1/3% support tests—2016. If th	e organization did	I not check a box	on line 14 or line	19a, and line 16 is	more than 33 1/	_
	not more than 33 1/3%, check this box	x and <b>stop here.</b>	The organization	qualifies as a publ	icly supported org	janization	▶ □
20	Private foundation. If the organizati	on did not check a	box on line 14, 1	9a, or 19b, check	this box and see	instructions	ightharpoons

Page 4

10b

Schedule A (Form 990 or 990-EZ) 2017

Schedule A (Form 990 or 990-EZ) 2017

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

L	Are all of the organization's supported organizations listed by name in the organization's governing documents?  If "No," describe in <b>Part VI</b> how the supported organizations are designated. If designated by class or purpose,		
	describe the designation If historic and continuing relationship, explain	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)? If "Yes," explain in <b>Part VI</b> how the organization determined that the supported organization was described		
	ın section 509(a)(1) or (2)	2	
3a	Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? If "Yes," answer (b) and (c)		
	below	3a	
L	Did the examination confirm that each cumparted examination qualified under section E01(c)(4). (E) or (6) and catisfied		

Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? If "Yes," describe in Part VI when and how the organization made the determination 3b Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? If "Yes," explain in Part VI what controls the organization put in place to ensure such use 3с

Was any supported organization not organized in the United States ("foreign supported organization")? If "Yes" and if you checked 12a or 12b in Part I, answer (b) and (c) below 4a Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or 4b supervised by or in connection with its supported organizations Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes 4c

Did the organization add, substitute, or remove any supported organizations during the tax year? 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 5a amendment to the organizing document) 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 Substitutions only. Was the substitution the result of an event beyond the organization's control? 5c Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (1) its supported organizations. (11) 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

6 organization's supported organizations? If "Yes," provide detail in Part VI.

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? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ) 7

8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ)

8 Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons as

defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? If "Yes,"

provide detail in Part VI. 9a

Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting

organization had an interest? If "Yes," provide detail in Part VI. 9b

Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in

which the supporting organization also had an interest? If "Yes," provide detail in Part VI.

9с

the organization had excess business holdings)

Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding 10a

certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? If "Yes,"

answer line 10b below 10a Did the organization have any excess business holdings in the tax year? (Use Schedule C, Form 4720, to determine whether

Pā	Supporting Organizations (continued)		<u>'</u>	
			Yes	No
11	Has the organization accepted a gift or contribution from any of the following persons?			
а	A person who directly or indirectly controls, either alone or together with persons described in (b) and (c) below, the			
	governing body of a supported organization?	11a		<u> </u>
	A family member of a person described in (a) above?	11b		
	A 35% controlled entity of a person described in (a) or (b) above? If "Yes" to a, b, or c, provide detail in Part VI	<b>11</b> c		
S	Section B. Type I Supporting Organizations		Vac	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? If "No," describe in Par 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	t	Yes	No
2	Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? If "Yes," explain in <b>Part VI</b> how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised or controlled the supporting organization	2		
_	Castion C. Timo II Compositing Ouganizations			
	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 or each of the organization's supported organization(s)? If "No," describe in <b>Part VI</b> how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s)	of		
_	Section D. All Type III Supporting Organizations			
	ection b. An 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? If "No," explain in <b>Part VI</b> how the organization maintained a close and continuous working relationship with the supported organization(s)			
		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? If "Yes," describe in <b>Part VI</b> the role the organization's supported organizations played in this regard			
S	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 instruc	tions)		
	a			
	b			
	c The organization supported a governmental entity Describe in <b>Part VI</b> how you supported a government entity (see	e instru	ctions)	
2	Activities Test Answer (a) and (b) below.		Yes	No
	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? If "Yes," then in <b>Part VI identify those supported organizations and explain</b> how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities	2a		
	<b>b</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? If "Yes," explain in <b>Part VI</b> the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement	2b		
3	Parent of Supported Organizations Answer (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 o the supported organizations? <i>Provide details in Part VI.</i>	f 3a		
	<b>b</b> Did the organization exercise a substantial degree of direction over the policies, programs and activities of each of its supported organizations? If "Yes," describe in <b>Part VI.</b> the role played by the organization in this regard	3h		

	dule A (Form 990 or 990-EZ) 2017		_	Page
	Type III Non-Functionally Integrated 509(a)(3) Supporting O	_		
1	Check here if the organization satisfied the Integral Part Test as a qualifying truinstructions. All other Type III non-functionally integrated supporting organization.			
	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		
С	Fair market value of other non-exempt-use assets	<b>1</b> c		
d	Total (add lines 1a, 1b, and 1c)	1d		
е	<b>Discount</b> 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	<b>Distributable Amount.</b> Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions)	6		
7	Check here if the current year is the organization's first as a non-functionally-in	ntegrate	ed Type III supporting or	ganization (see

v	Other distributions (describe in Fait 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 <b>Part VI</b> ) See instructions	

q Applied to underdistributions of prior years h Applied to 2017 distributable amount i Carryover from 2012 not applied (see

j Remainder Subtract lines 3g, 3h, and 3i from 3f 4 Distributions for 2017 from Section D, line 7

a Applied to underdistributions of prior years b Applied to 2017 distributable amount c Remainder Subtract lines 4a and 4b from 4 5 Remaining underdistributions for years prior to 2017, if any Subtract lines 3g and 4a from line 2 If the amount is greater than zero, explain in Part VI

6 Remaining underdistributions for 2017 Subtract lines 3h and 4b from line 1 If the amount is greater than zero, explain in Part VI See instructions 7 Excess distributions carryover to 2018. Add lines

a Excess from 2013. . . . . . **b** Excess from 2014. . . . . c Excess from 2015. . . . . **d** Excess from 2016. . . . . e Excess from 2017. . . . .

instructions)

See instructions

3j and 4c 8 Breakdown of line 7

	Total annual distributions. Add lines 1 through 6		
8	Distributions to attentive supported organizations to who		
9	Distributable amount for 2017 from Section C, line 6		
10	Line 8 amount divided by Line 9 amount		
	Section E - Distribution Allocations (see instructions)	(iii) Distributable Amount for 2017	
1	Distributable amount for 2017 from Section C, line		

details in <b>Part VI</b> ) See instructions			
<b>9</b> Distributable amount for 2017 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-2017	(iii) Distributable Amount for 2017
Distributable amount for 2017 from Section C, line     6			
2 Underdistributions, if any, for years prior to 2017 (reasonable cause required explain in Part VI) See instructions			
3 Excess distributions carryover, if any, to 2017			
_		· ·	

Section E - Distribution Allocations (see instructions)	(i) (ii) Excess Distributions Pre-2017		(iii) Distributable Amount for 2017
Distributable amount for 2017 from Section C, line     6			
Underdistributions, if any, for years prior to 2017 (reasonable cause required explain in Part VI) See instructions			
<b>3</b> Excess distributions carryover, if any, to 2017			
a			
<b>b</b> From 2013			
c From 2014			
<b>d</b> From 2015			
<b>e</b> From 2016			
f Total of lines 3a through e			

Schedule A (Form 990 or 990-EZ) (2017)

### Additional Data

### Software ID: Software Version:

**EIN:** 52-2000823

Name: VAN ANDEL RESEARCH INSTITUTE

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Schedule A (Form 990 or 990-EZ) 2017 Supplemental Information. Provide the explanations required by Part II, line 10, Part II, line 17a or 17b, Part III, line 12, Part IV, Part VI

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

**SCHEDULE C** 

## **Political Campaign and Lobbying Activities**

For Organizations Exempt From Income Tax Under section 501(c) and section 527

OMB No 1545-0047

DLN: 93493283009209

Open to Public

Department of the Treasury

EZ)

(Form 990 or 990-

▶Complete if the organization is described below. ▶Attach to Form 990 or Form 990-EZ.

•	► Information about Schedule C (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.							Inspe	ction
			n Form 990, Part IV, Line 3, or Form	n 990-EZ, Part V, lir	ie 46 (Political	Campaigr	n Acti	ivities), the	n
• S If the	Section 527 organiz e organization ans	ations Complet wered "Yes" or	n Form 990, <mark>Ýart IV, Line 4, or For</mark> n	n 990-EZ, Part VI, III	ne 47 (Lobbyir	ng Activitie	es), tl		
● S If the Pro	Section 501(c)(3) or e organization ans xy Tax) (see separa	ganizations that wered "Yes" or ate instruction:	have filed Form 5768 (election under have NOT filed Form 5768 (election Form 990, Part IV, Line 5 (Proxy 1s), then tations Complete Part III	under section 501(h	n)) Complete P	art II-B Do	not o	complete Pa	art II-A
Nar	me of the organizati	on	ations Complete Fait III		Em	ployer ide	ntific	cation num	ıber
VAN	N ANDEL RESEARCH IN:	STITUTE			52-	2000823			
Par	t I-A Complete	e if the orga	nization is exempt under sect	ion 501(c) or is	a section 5	27 organ	izati	ion.	
1	Provide a descript "political campaigi		ization's direct and indirect political o	ampaign activities ii	n Part IV (see ı	nstructions	for d	efinition of	
2		,	itures (see instructions)			<b>&gt;</b>	\$_		
3		or political camp	aign activities (see instructions)						
Par	t I-B Complete	e if the orga	nization is exempt under sect	ion 501(c)(3).					
1	Enter the amount	of any excise ta	ix incurred by the organization under	section 4955		<b>&gt;</b>	\$		
2	Enter the amount	of any excise ta	ix incurred by organization managers	under section 4955		<b>&gt;</b>	\$		
3	If the organization	ıncurred a sect	cion 4955 tax, did it file Form 4720 fo	r this year?				☐ Yes	□ No
4a	Was a correction r	made?						☐ Yes	☐ No
b	If "Yes," describe			ion F01/a) ava		F01/-\/2			
			nization is exempt under sect			201(c)(3	·)·		
1 2			ed by the filing organization for secti- anization's funds contributed to othe	·		npt -	⇒ _		
	function activities			_		<b>•</b>	\$ <u>_</u>		
3	Total exempt func	tion expenditure	es Add lines 1 and 2 Enter here and	on Form 1120-POL,	line 17b	<b>&gt;</b>	\$_		
4	Did the filing orga	nızatıon file <b>For</b>	m 1120-POL for this year?					☐ Yes	□ No
5	organization made of political contrib	payments For payments pay	employer identification number (EIN) each organization listed, enter the a that were promptly and directly deliv se (PAC) If additional space is neede	mount paid from the ered to a separate p	e filing organiza political organiz	tion's fund	s Als	so enter the	
	(a) Name	9	( <b>b)</b> Address	(c) EIN	(d) Amount filing orga funds If no -0	nization's one, enter	d	e) Amount of contributions and promp directly delived separate programmers.	or received only and vered to a political of none,
1									
2									
3									
4									
5							+		

:	Total lobbying expenditures (add lines 1a and 1b)		96,00	0
	Other exempt purpose expenditures		86,109,64	8
,	Total exempt purpose expenditures (add lines 1c and	86,205,64	8	
	Lobbying nontaxable amount Enter the amount from columns	1,000,00	0	
	If the amount on line 1e, column (a) or (b) is:	The lobbying nontaxable amount is:		
	Not over \$500,000	20% of the amount on line 1e		
	Over \$500,000 but not over \$1,000,000	\$100,000 plus 15% of the excess over \$500,000		
	Over \$1,000,000 but not over \$1,500,000	\$175,000 plus 10% of the excess over \$1,000,000		
	Over \$1,500,000 but not over \$17,000,000	\$225,000 plus 5% of the excess over \$1,500,000		
	Over \$17,000,000	\$1,000,000		
			ı	I

250,000 **g** Grassroots nontaxable amount (enter 25% of line 1f) h Subtract line 1g from line 1a If zero or less, enter -0-0

Subtract line 1f from line 1c If zero or less, enter -0j If there is an amount other than zero on either line 1h or line 1i, did the organization file Form 4720 reporting ☐ Yes ☐ No section 4911 tax for this year? 4-Year Averaging Period Under section 501(h)

(Some organizations that made a section 501(h) election do not have to complete all of the five columns below. See the separate instructions for lines 2a through 2f.) Lobbying Expenditures During 4-Year Averaging Period

(a) 2014

1,000,000

165,579

250,000

**(b)** 2015

1,000,000

238,376

250,000

(c) 2016

1,000,000

96,000

250,000

(d) 2017

1,000,000

96,000

250,000

Schedule C (Form 990 or 990-EZ) 2017

(e) Total

4,000,000

6,000,000

595,955

1,000,000

1,500,000

Calendar year (or fiscal year

beginning in)

Lobbying nontaxable amount

(150% of line 2a, column(e))

Total lobbying expenditures

Grassroots ceiling amount

Grassroots nontaxable amount

(150% of line 2d, column (e))

Grassroots lobbying expenditures

Lobbying ceiling amount

2a

activity

Volunteers?

1

(b)

Amount

(a)

No

Yes

### Media advertisements? Mailings to members, legislators, or the public? Publications, or published or broadcast statements? Grants to other organizations for lobbying purposes? Direct contact with legislators, their staffs, government officials, or a legislative body? Rallies, demonstrations, seminars, conventions, speeches, lectures, or any similar means? Other activities? Total Add lines 1c through 1i 2a Did the activities in line 1 cause the organization to be not described in section 501(c)(3)? b If "Yes," enter the amount of any tax incurred under section 4912 If "Yes," enter the amount of any tax incurred by organization managers under section 4912 If the filing organization incurred a section 4912 tax, did it file Form 4720 for this year? Part III-A Complete if the organization is exempt under section 501(c)(4), section 501(c)(5), or section 501(c)(6). Yes No Were substantially all (90% or more) dues received nondeductible by members? 1 1 2 Did the organization make only in-house lobbying expenditures of \$2,000 or less? 2 Did the organization agree to carry over lobbying and political expenditures from the prior year? Complete if the organization is exempt under section 501(c)(4), section 501(c)(5), or section 501(c)(6)Part III-B and if either (a) BOTH Part III-A, lines 1 and 2, are answered "No" OR (b) Part III-A, line 3, is answered "Yes." Dues, assessments and similar amounts from members 1 1 2 Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). 2a Current year 2b Carryover from last year C Total 2c 3 3 Aggregate amount reported in section 6033(e)(1)(A) notices of nondeductible section 162(e) dues If notices were sent and the amount on line 2c exceeds the amount on line 3, what portion of the excess does the organization agree to carryover to the reasonable estimate of nondeductible lobbying and political expenditure next year? 4 5 Taxable amount of lobbying and political expenditures (see instructions) Part IV Supplemental Information Provide the descriptions required for Part I-A, line 1, Part I-B, line 4, Part I-C, line 5, Part II-A (affiliated group list), Part II-A, lines 1 and 2 (see

Explanation

For each "Yes" response on lines 1a through 1i below, provide in Part IV a detailed description of the lobbying

Paid staff or management (include compensation in expenses reported on lines 1c through 1i)?

instructions), and Part II-B, line 1 Also, complete this part for any additional information

Return Reference

During the year, did the filing organization attempt to influence foreign, national, state or local legislation,

including any attempt to influence public opinion on a legislative matter or referendum, through the use of

efile GRAPHIC print - DO NOT PROCESS As Filed Data -SCHEDULE D

## **Supplemental Financial Statements**

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

DLN: 93493283009209 OMB No 1545-0047

> Open to Public Inspection

Department of the Treasury

(Form 990)

▶ Attach to Form 990.

Information about Schedule D (Form 990) and its instructions is at www.irs.gov/form990. Internal Revenue Service Name of the organization **Employer identification number** VAN ANDEL RESEARCH INSTITUTE 52-2000823 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 Total number at end of year 2 Aggregate value of contributions to (during year) Aggregate value of grants from (during year) Aggregate value at end of year 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? ☐ Yes ☐ No 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? 🗌 Yes 🗌 No Part II Conservation Easements. Complete if the organization answered "Yes" on Form 990, Part IV, line Purpose(s) of conservation easements held by the organization (check all that apply) Preservation of land for public use (e.g., recreation or education) Preservation of an historically important land area Protection of natural habitat Preservation of a certified historic structure Preservation of open space 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 Held at the End of the Year Total number of conservation easements Total acreage restricted by conservation easements 2b Number of conservation easements on a certified historic structure included in (a) 2c Number of conservation easements included in (c) acquired after 8/17/06, and not on a historic structure listed in the National Register Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year 🟲 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? ☐ Yes Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) 8 and section 170(h)(4)(B)(II)? 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. 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 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

For Paperwork Reduction Act Notice, see the Instructions for Form 990. Cat No 52283D

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

Assets included in Form 990, Part X

Revenue included on Form 990, Part VIII, line 1

(ii) Assets included in Form 990, Part X

Schedule D (Form 990) 2017

Sche	edule D (Form 990) 2017											Page <b>2</b>
Par	t IIII Organizations Ma	intaining Col	lections of Art,	Histori	cal Tre	easui	res, or	Other	Similar A	ssets (	continued)	
3	Using the organization's acquitems (check all that apply)	usition, accession	n, and other records	s, check	any of t	he foll	lowing th	nat are a	sıgnıfıcant	use of its	collection	
а	Public exhibition			d		Loan d	or excha	nge prog	ırams			
b	Scholarly research			e		Other						
c	Preservation for future	generations										
4	Provide a description of the c Part XIII		lections and explair	how the	ey furthe	er the	organiza	ation's ex	xempt purp	ose in		
5	During the year, did the orga assets to be sold to raise fun								nılar	∏ Ye		
Dai	rt IV Escrow and Custo									⊔ Ye	<u>s ⊔ </u>	No
	Complete if the org X, line 21.	janization answ	vered "Yes" on Fo							unt on F	orm 990	, Part
1a	Is the organization an agent, included on Form 990, Part X		an or other Interme	dıary for	contrib	utions	or othe	r assets	not	☐ Ye	s 🗆 I	No
b	If "Yes," explain the arrange	ment ın Part XIII	and complete the f	ollowing	table		Γ		-	Amount		_
С	Beginning balance			_				1c				_
d	Additions during the year							1d				_
е	Distributions during the year							1e				_
f	Ending balance						Ī	1f				_
2a	Did the organization include	an amount on Fo	rm 990, Part X, line	21, for	escrow	or cus	todial ac	count lia	ability?	☐ Ye	s 🗆 I	— No
h	TC 1154 11 11											10
b	If "Yes," explain the arranger										<u>.                                     </u>	
-6	ert V Endowment Fund	is. Complete if	(a)Current year		rior year		(c)Two ye		(d)Three ye		(e)Four yea	are back
1a	Beginning of year balance .		666,302		612,		(C) I WO ye	ars back	(d)Timee ye	al 5 Dack	(e) our yea	313 Dack
	Contributions		10,100		·	+		596,343				
	Net investment earnings, gain	s. and losses	12,604		61,	326		18,408				
	Grants or scholarships											
	Other expenditures for facilities and programs		62,742		7,	801		1,974				
f	Administrative expenses .											
g	End of year balance		626,264		666,	302		612,777				
2	Provide the estimated percer	ntage of the curre	ent year end balanc	e (line 1	g, colum	nn (a)	) held as	;				
а	Board designated or quasi-er	ndowment <b>&gt;</b>										
ь	Permanent endowment >	100 000 %										
С	Temporarily restricted endow	/ment ▶										
	The percentages on lines 2a,	2b, and 2c shou	ld equal 100%									
3a	Are there endowment funds	not in the posses	sion of the organiza	ation that	t are he	ld and	dadminis	stered fo	r the			
	organization by									_	Yes	
	(i) unrelated organizations					•					a(i) a(ii) Yes	No
ь	(ii) related organizations . If "Yes" on 3a(ii), are the relations.		s listed as required	on Sche	dule R?	• •				<u> </u>	3b Yes	+
4	Describe in Part XIII the inte	-	· ·			•	•		• •		1.00	
Pai	rt VI Land, Buildings,	and Equipmer	nt.									
	Complete If the org			rm 990	, Part I	V, lın						
	Description of property	(a) Cost or oth (ınvestme		st or other	basıs (ot	her)	(c) Accu	mulated o	depreciation	(	d) Book val	ue
<b>1</b> a	Land				5,288	3,315						5,288,315
b	Buildings				229,359	,310			66,890,424		16	52,468,886
С	Leasehold improvements											
d	Equipment				56,798	3,553			42,644,015		1	4,154,538
е	Other				1,607	7,268			58,708			1,548,560
Tota	al. Add lines 1a through 1e (Co	lumn (d) must ed	qual Form 990, Pari	t X, colur	nn (B),	line 1	0(c)) .		<b>&gt;</b>		18	33,460,299

	Form 990) 2017				Page 3
Part VII	<b>Investments—Other Securities.</b> Complete if the ord See Form 990, Part X, line 12.	ganızai	tion ansv	wered "Yes" on Form	990, Part IV, line 11b.
-	(a) Description of security or category (including name of security)		(b) Book		thod of valuation l-of-year market value
			value		
<ul><li>(1) Financia</li><li>(2) Closely-</li></ul>	I derivatives held equity interests	•			
( <b>3)</b> Other					
(A)					
(B)					
(C)					
(D)					
(E)					
(F)					
(G)					
(H)					
	with and the section of the section				
Part VIII	n (b) must equal Form 990, Part X, col (B) line 12)  Investments—Program Related.				
	Complete if the organization answered 'Yes' on Form  (a) Description of investment		art IV, li ook value		0, Part X, line 13. thod of valuation
	(a) Description of investment	(0) 0	Jok Value		-of-year market value
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
	n (b) must equal Form 990, Part X, col (B) line 13 )				
Part IX	Other Assets. Complete if the organization answered 'Yes'		m 990, Pa	I art IV, line 11d See Fori	
(1) PLEDGE	(a) Description D SECURITIES				<b>(b)</b> Book value 19,640,000
(2)					
(3)					
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
	mn (b) must equal Form 990, Part X, col (B) line 15 ) .				<b>▶</b> 19,640,000
Part X	Other Liabilities. Complete if the organization answer			orm 990, Part IV, line	
1.	See Form 990, Part X, line 25.  (a) Description of liability	Т	(b) E	Book value	
	ncome taxes				
	D LOSS ON INTEREST RATE SWAP	_		41,273,437	
(3)	RTY PAYABLE			4,137,097	
(4)		+			
(5)		_			
		_			
(6)					
(7)					
(8)					
(9)					
	n (b) must equal Form 990, Part X, col (B) line 25 )	<b>•</b>		45,410,534	
	or uncertain tax positions. In Part XIII, provide the text of the last silability for uncertain tax positions under FIN 48 (ASC 740).			=	·

Part XI

2

5

1

2

c

d

3

4

b

5

Part XIII

See Additional Data Table

Part XII

Schedule D (Form 990) 2017

Page 4

158,302

79,014,504

7,454,379

86,468,883

67,297,814

-11,453,455

78,751,269

7,454,379

86.205.648

Schedule D (Form 990) 2017

С	Recoveries of prior year grants
d	Other (Describe in Part XIII )
e	Add lines 2a through 2d
3	Subtract line <b>2e</b> from line <b>1</b>
4	Amounts included on Form 990, Part VIII, line

Add lines **4a** and **4b** . . . . . .

Donated services and use of facilities . . .

Other (Describe in Part XIII ) . . . . .

Supplemental Information

Add lines 2a through 2d . .

Return Reference

Donated services and use of facilities . .

Amounts included on line 1 but not on Form 990, Part VIII, line 12 Net unrealized gains (losses) on investments . . . .

e 12, but not on line 1

Amounts included on line 1 but not on Form 990, Part IX, line 25

Amounts included on Form 990, Part IX, line 25, but not on line 1: Investment expenses not included on Form 990, Part VIII, line 7b . . .

Add lines **4a** and **4b** . . . . . . . . . . . . . . . . .

2d

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

Total expenses Add lines 3 and 4c. (This must equal Form 990, Part I, line 18) . . . . . . .

XI, lines 2d and 4b, and Part XII, lines 2d and 4b. Also complete this part to provide any additional 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

Investment expenses not included on Form 990, Part VIII, line 7b . 

Reconciliation of Revenue per Audited Financial Statements With Revenue per Return

4a 4b

2a

2b 2c

2a 2b

2c

2d

4a

4b

Explanation

7,454,379 Total revenue Add lines 3 and 4c. (This must equal Form 990, Part I, line 12) . . . . . . . . Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

-11,453,455

7.454.379

2.172

156.130

2e

3

4c

5

2e

3

4c

5

Page <b>5</b>	hedule D (Form 990) 2017	
	ormation (continued)	Part XIII Supplemental Info
	Explanation	Return Reference

Schedule D (Form 990) 2017

### **Additional Data**

Software ID: Software Version:

**EIN:** 52-2000823

Name: VAN ANDEL RESEARCH INSTITUTE

### **Supplemental Information**

Return Reference

Explanation PART X, LINE 2 PART X, LINE 1(1) AND LINE 2 THERE ARE NO UNCERTAIN TAX POSITIONS RELATED TO VARI

Supplemental Information	
Return Reference	Explanation
PART XI, LINE 2D - OTHER ADJUSTMENTS	RENTAL EXPENSES 133,827 FUNDRAISING EVENT EXPENSE 22,303

Supplemental Information		
Return Reference	Explanation	
PART XI, LINE 4B - OTHER ADJUSTMENTS	NET ALLOCATED 7,454,379	

Supplemental Information			
Return Reference	Explanation		
PART XII, LINE 2D - OTHER ADJUSTMENTS	RENTAL EXPENSES 133,827 FUNDRAISING EVENT EXPENSE 22,303 GAIN ON INTEREST RATE SWAP -11,609,585		

Ē

Supplemental Information		
Return Reference	Explanation	
PART XII, LINE 4B - OTHER ADJUSTMENTS	NET ALLOCATED 7,454,379	

Supplemental Information	_
Return Reference	Explanation
PART V	VAN ANDEL INSTITUTE (A RELATED ORGANIZATION) MAINTAINS ENDOWED FUNDS FOR THE BENEFIT OF BO TH VARI AND VAN ANDEL EDUCATION INSTITUTE (A RELATED ORGANIZATION) TO FUND OPERATING EXPEN SES

plemental Information	
Return Reference	Explanation
RT XI AND XII, LINE 4B	EXPENSE ALLOCATIONS PRESENTED WITHIN REVENUE

Supp

efile GRAPHIC print	- DO NOT P	ROCESS	As Filed Data -	•		DLN:	93493283	009209	
SCHEDULE F (Form 990)	State	ment of	Activities (	Outside the United States				45-0047	
Department of the Treasury	·	lete if the organization answered "Yes" to Form 990, Part IV, line 14b, 15, or 16.  ► Attach to Form 990.  Ition about Schedule F (Form 990) and its instructions is at www.irs.gov/form990					2017 Open to Public		
Internal Revenue Service							Inspecti		
Name of the organization VAN ANDEL RESEARCH INS	STITUTE					<b>Employer iden</b> 52-2000823	tification nu	ımber	
	formation Part IV, line		s Outside the U	<b>Inited States.</b> Comple	te if the	organization a	nswered "Ye	es" to	
1 For grantmakers.	Does the or	ganızatıon ma	intain records to	substantiate the amoun	of its gr	rants and			
other assistance, the drants	•		he grants or assis	stance, and the selection	criteria	used	✓ Yes	□ No	
2 For grantmakers. outside the United		Part V the org	janization's proce	dures for monitoring the	use of i	ts grants and oth	ner assistand	e	
3 Activites per Region	(The followin	g Part I, line 3	table can be dupli	cated if additional space is	needed	)			
(a) Region		<b>(b)</b> Number of offices in the region	(c) Number of employees, agents, and independent contractors in region	(d) Activities conducted in region (by type) (e.g., fundraising, program services, investments, grants to recipients located in the region)	program sp	vity listed in (d) is a n service, describe ecific type of ce(s) in region	<b>(f)</b> Total ex for and inv in req	estments	
See Add'l Data									
3a Sub-total			0 1					664,191	
Part I	on sheets to							0	
c Totals (add lines 3a	and 3b)	·	0 1					664,191	
<b>b</b> Total from continuation  Part I	and 3b)		0 1		No 5008		e F (Form 99	66	

Schedule F (Form 990)	2017							Page <b>2</b>
			<b>nizations or Entitie</b> d more than \$5,000.				on answered "Yes"	to Form 990, Part
1 (a) Name of organization	(b) IRS code section and EIN (if applicable)	(c) Region	(d) Purpose of grant	(e) Amount of cash grant	(f) Manner of cash disbursement	(g) Amount of non-cash assistance	(h) Description of non-cash assistance	(i) Method of valuation (book, FMV, appraisal, other)
	<b>I</b>	EAST ASIA AND THE PACIFIC	RESEARCH COLLABORATION	50,000	WIRE TRANSFER			
			above that are recognusel has provided a se				<u> </u>	1
3 Enter total numb	er of other org	janizations or entitie	es		<u> </u>	<u> </u>	<u> </u>	

Schedule F (Form 990) 2017							Page <b>3</b>
				ad States. Complete if	the organization ar	nswered "Yes" to Form 9	90, Part IV, line 16.
	duplicated if additio			Т	т	т	т
(a) Type of grant or assistance	(b) Region	(c) Number of recipients	(d) Amount of cash grant	(e) Manner of cash disbursement	(f) Amount of non-cash assistance	(g) Description of non-cash assistance	(h) Method of valuation (book, FMV, appraisal, other)
	J		  -	1	1		
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Sche	dule F (Form 990) 2017		Page <b>4</b>
Pai	rt IV Foreign Forms		
1	Was the organization a U S transferor of property to a foreign corporation during the tax year? If "Yes,"the organization may be required to file Form 926, Return by a U S Transferor of Property to a Foreign Corporation (see Instructions for Form 926)	Yes	<b>☑</b> No
2	Did the organization have an interest in a foreign trust during the tax year? If "Yes," the organization may be required to separately file Form 3520, Annual Return to Report Transactions with Foreign Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A, Annual Information Return of Foreign Trust With a U.S. Owner (see Instructions for Forms 3520 and 3520-A, do not file with Form 990)	Yes	<b>☑</b> No
3	Did the organization have an ownership interest in a foreign corporation during the tax year? If "Yes," the organization may be required to file Form 5471, Information Return of U.S. Persons with Respect to Certain Foreign Corporations (see Instructions for Form 5471)	Yes	<b>☑</b> No
4	Was the organization a direct or indirect shareholder of a passive foreign investment company or a qualified electing fund during the tax year? If "Yes," the organization may be required to file Form 8621, Information Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund (see Instructions for Form 8621)	□Yes	<b>☑</b> No
5	Did the organization have an ownership interest in a foreign partnership during the tax year? If "Yes," the organization may be required to file Form 8865, Return of U.S. Persons with Respect to Certain Foreign Partnerships (see Instructions for Form 8865)	□Yes	<b>☑</b> No
6	Did the organization have any operations in or related to any boycotting countries during the tax year? If "Yes," the organization may be required to separately file Form 5713, International Boycott Report (see Instructions for Form 5713, do not file with Form 990)	Yes	<b>☑</b> No
	Schedul	e F (Form 9	990) 2017

ochedule F (For	n 990) 2017 Page <b>5</b>						
Part V Supplemental Information Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information (see instructions).							
aı	y dadicional information (See instructions).						
Return Reference	Explanation						

Return Reference	Explanation
SCHEDULE F, PART II, LINE 1	ORGANIZATION PROVIDED ASSISTANCE IS MONITORED WITH QUARTERLY EXPENDITURE REPORTING

### **Additional Data**

**EUROPE** 

## Software ID: Software Version:

**EIN:** 52-2000823

Name: VAN ANDEL RESEARCH INSTITUTE

RESEARCH

COLLABORATION -RESEARCH SERVICES 431,476

Form	990	Schedule	F Part T	- Activities	Outside 1	The United States
1 01 111	220	Schoule	I Full I	- ACCIVICIO	Outside i	THE Officea States

(a) Region	offices in the region	employees or agents in region	in region (by type) (i e , fundraising, program services, grants to recipients located in the region)	is a program service, describe specific type of service(s) in region	for region
EAST ASIA & THE PACIFIC	0	1		RESEARCH COLLABORATION - RESEARCH SERVICES	232,715

0 PROGRAM SERVICES

efile GRAPHIC print - DO NOT PROCESS As Filed Data -DLN: 93493283009209 OMB No 1545-0047 SCHEDULE G **Supplemental Information Regarding** (Form 990 or 990-EZ) **Fundraising or Gaming Activities** Complete if the organization answered "Yes" on Form 990, Part IV, lines 17, 18, or 19, or if the organization entered more than \$15,000 on Form 990-EZ, line 6a Open to Public Department of the Treasury Attach to Form 990 or Form 990-EZ. Inspection Internal Revenue Service ▶ Information about Schedule G (Form 990 or 990-EZ) and its instructions is at www irs gov/form990 **Employer identification number** Name of the organization VAN ANDEL RESEARCH INSTITUTE 52-2000823 Part I Fundraising Activities. Complete if the organization answered "Yes" on Form 990, Part IV, line 17. Form 990-EZ filers are not required to complete this part. Indicate whether the organization raised funds through any of the following activities. Check all that apply Mail solicitations e Solicitation of non-government grants Internet and email solicitations Solicitation of government grants Phone solicitations ☐ Special fundraising events ☐ In-person solicitations Did the organization have a written or oral agreement with any individual (including officers, directors, trustees or key employees listed in Form 990, Part VII) or entity in connection with professional fundraising services? ☐ Yes ☐ No If "Yes," list the ten highest paid individuals or entities (fundraisers) pursuant to agreements under which the fundraiser is to be compensated at least \$5,000 by the organization (i) Name and address of individual (ii) Activity (iii) Did (iv) Gross receipts (v) Amount paid to (vi) Amount paid to or entity (fundraiser) fundraiser have from activity (or retained by) (or retained by) custody or fundraiser listed in organization control of col (i) contributions? Yes No Total 3 List all states in which the organization is registered or licensed to solicit contributions or has been notified it is exempt from registration or licensing For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ. Cat No 50083H Schedule G (Form 990 or 990-EZ) 2017

Part II Fundraising Events. Complete if the organization answered "Yes" on Form 990, Part IV, line 18, or reported more than \$15,000 of fundraising event contributions and gross income on Form 990-EZ, lines 1 and 6b. List events with gross receipts greater than \$5,000. (a)Event #1 (b) Event #2 (c)Other events (d) Total events **5K RACE GRIFFINS** (add col (a) through (total number) (event type) (event type) col (c)) Revenue 1 Gross receipts. 40,343 44,151 84,494 2 Less Contributions. 32,403 44,151 76,554 3 Gross income (line 1 minus 7,940 7,940 line 2) 4 Cash prizes 5 Noncash prizes Direct Expenses Rent/facility costs 7 Food and beverages 8 Entertainment 9 Other direct expenses 6,183 16,120 22,303 **10** Direct expense summary Add lines 4 through 9 in column (d) 22,303 11 Net income summary Subtract line 10 from line 3, column (d) . . . . . -14,363 Part III Gaming. Complete if the organization answered "Yes" on Form 990, Part IV, line 19, or reported more than \$15,000 on Form 990-EZ, line 6a. Revenue (b) Pull tabs/Instant (d) Total gaming (add (a) Bingo (c) Other gaming bingo/progressive bingo col (a) through col (c)) 1 Gross revenue . Expenses | 2 Cash prizes 3 Noncash prizes Direct 4 Rent/facility costs 5 Other direct expenses Yes Yes % Yes\_\_\_\_ 6 Volunteer labor No Direct expense summary Add lines 2 through 5 in column (d) Net gaming income summary Subtract line 7 from line 1, column (d). Enter the state(s) in which the organization conducts gaming activities \_ ☐ Yes ☐ No Is the organization licensed to conduct gaming activities in each of these states? If "No," explain . 10a Were any of the organization's gaming licenses revoked, suspended or terminated during the tax year? ☐ Yes ☐ No If "Yes," explain \_ Schedule G (Form 990 or 990-EZ) 2017

sche	dule G (Form 990 or 990-EZ) 2017					F	age <b>3</b>
L1	Does the organization conduct gaming	activities with nonmember	s?		☐ Yes	Пио	
L2	Is the organization a grantor, beneficing formed to administer charitable gamin		a member of a partnership or other entity		□Yes		
L3	Indicate the percentage of gaming act	ivity conducted in					
а	The organization's facility			13a			%
b	An outside facility			13b			%
4	Enter the name and address of the pe	rson who prepares the orga	nization's gaming/special events books and r	ecords			
	Name ►						
	Address ►						
.5a	Does the organization have a contract revenue?	with a third party from wh	om the organization receives gaming		□Yes	□No	
b	If "Yes," enter the amount of gaming amount of gaming revenue retained b			ne			
С	If "Yes," enter name and address of the	ne third party					
	Name •						
	Address ►						
6	Gaming manager information						
	Name ►						
	Gaming manager compensation ▶ \$						
	Description of services provided ▶						
	☐ Director/officer	☐ Employee	☐ Independent contractor				
7	Mandatory distributions						
а	Is the organization required under sta retain the state gaming license?	te law to make charitable d	istributions from the gaming proceeds to		☐Yes	Пио	
b	Enter the amount of distributions required in the organization's own exempt activ		uted to other exempt organizations or spent				
Par	t IV Supplemental Information	on. Provide the explana	tions required by Part I, line 2b, column				
		.5c, 16, and 17b, as app	olicable. Also provide any additional info	rmation	(see ins	tructions	·).
	Return Reference		Explanation				

Schedule G (Form 990 or 990-EZ) 2017

efile GRAPHIC print - DO	NOT PROCESS	As Filed Data -					DLI	N: 934932830	09209
Schedule I (Form 990)  Department of the Treasury Internal Revenue Service	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.								47
Name of the organization VAN ANDEL RESEARCH INSTITU	TE							ation number	
Part I General Inform	nation on Grants	and Assistance				52-20	00823		
	to award the grants ganization's procedui Assistance to Don	or assistance? res for monitoring the unestic Organizations a	se of grant funds in the U	nited States			Part IV, line	✓ Yes 21, for any recip	□ <b>No</b>
(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) Descrip noncash ass		(h) Purpose o or assistance	f grant
(1) See Additional Data									
(2)									
(3)									
(4)									
(5)									
(6)									
(7)									
(8)									
(9)									
(10)									
(11)									
(12)									
<ul><li>2 Enter total number of sect</li><li>3 Enter total number of other</li></ul>		-					<b>&gt;</b>		6
or Paperwork Reduction Act Noti	ice, see the Instructio	ns for Form 990.		Cat No 50055	5P		Sch	edule I (Form 990	) 2017

Part III can be duplicated if addition					
(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of noncash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of noncash assistance
(1) GRADUATE STUDENT STIPENDS FOR MICHIGAN STATE UNIVERSITY STUDENTS	3	89,338			
(2) GRADUATE STUDENT STIPENDS VAN ANDEL INSTITUTE GRADUATE SCHOOL	2	53,484			
(3) FOREIGN NATIONAL STIPENDS	7	50,821			
(4) GUEST STUDENT STIPENDS	2	23,363			
(4)					
(5)					
(6)			<u> </u>		

STUDENTS RECEIVE A STIPEND FOR LIVING EXPENSE AND INSURANCE GRANT FUNDS TO INSTITUTIONS ARE MONITORED BY QUARTERLY EXPENDITURE REPORTS BEFORE DISBURSING INCREMENTAL FUNDING PROGRESS REPORTS ARE REQUIRED ANNUALLY AND REVIEWED BY VAN ANDEL RESEARCH INSTITUTE AND A THIRD

Page **2** 

Schedule I (Form 990) 2017

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

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

Explanation

PARTY

(7)

Part IV

PART I, LINE 2

Return Reference

Schedule I (Form 990) 2017

# **Additional Data**

UNIVERSITY OF MARYLAND

COLLEGE PARK, MD 20742

3112 LEE BUILDING 7809

REGENTS DR

Software ID: Software Version: EIN: Name:

52-6002033

**EIN:** 52-2000823

501C3

Name: VAN ANDEL RESEARCH INSTITUTE

Form 990,Schedule I, Part	orm 990,Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.													
(a) Name and address of organization or government	<b>(b)</b> EIN	(c) IRC section if applicable	<b>(d)</b> 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							
JOHNS HOPKINS UNIVERSITY 3400 N CHARLES STREET BALTIMORE, MD 21218	52-0595110	501C3	143,460			1	RESEARCH COLLABORATION							

RESEARCH

COLLABORATION

50,000

(a) Name and address of (b) EIN (c) IRC section (d) Amount of cash (e) Amount of non-(f) Method of valuation (a) Description of (h) Purpose of grant organization ıf applıcable grant cash (book, FMV, appraisal, non-cash assistance or assistance other) or government assistance 23-1365971 501C3 50.000 TEMPLE UNIVERSITY IRESEARCH 1852 NORTH 10TH ST COLLABORATION PHILADELPHIA, PA 19122

PHILADELPHIA, PA 19122

INSTITUTE FOR CANCER 23-6296135 501C3 54,243 RESEARCH COLLABORATION

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

333 COTTMAN AVENUE PHILADELPHIA, PA 19111

(a) Name and address of (b) EIN (c) IRC section (d) Amount of cash (e) Amount of non-(f) Method of valuation (a) Description of (h) Purpose of grant organization ıf applıcable grant cash (book, FMV, appraisal, non-cash assistance or assistance other) or government assistance 26-4562012 501C3 14.500 FRIENDS OF CRESCENT PARK ISUPPORT CRESCENT 301 BOSTWICK NE PARK MAINTENANCE

| PARK MAINTENAN | GRAND RAPIDS, MI 49503 | STAND UP TO CANCER | 95-1644609 | 501C3 | 513,432 | RESEARCH | COLLABORATION | 1400 | COLLABORATION | COLLABORATIO

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

LOS ANGELES, CA 90024

efil	e GRAPHIC pr	int - DO NOT PROCESS	As Filed Data	a -	DLN: 934	9328	3009	209
Sch	edule J	Co	ompensati	ion Information	OM	IB No	1545-0	0047
(For	ո 990)	For certain Office						
			Compensa	ited Employees vered "Yes" on Form 990, Part IV	line 23	20	17	7
			▶ Attach	to Form 990.				
•	tment of the Treasury al Revenue Service	▶ Information al		(Form 990) and its instructions gov/form990.	is at •		to Pul ectio	
Nar	ne of the organiza				Employer identificat			
VAN	ANDEL RESEARCH	INSTITUTE			52-2000823			
Pa	rt I Questi	ons Regarding Compensa	tion					
							Yes	No
1a				the following to or for a person liste y relevant information regarding the				
	✓ First-class	or charter travel		Housing allowance or residence for	personal use			
	_	companions	님	Payments for business use of perso				
		nification and gross-up payment	s 📙	Health or social club dues or initiati				
	☐ Discretion	ary spending account		Personal services (e g , maid, chaut	rreur, cher)			
b		xes in line 1a are checked, did t all of the expenses described abo		ollow a written policy regarding payn iplete Part III to explain	nent or reimbursement	<b>1</b> b	Yes	
2				or allowing expenses incurred by all r, regarding the items checked in line	. 1.2	2	Yes	
	directors, truste	es, officers, including the CEO/	executive Directo	r, regarding the items checked in line	: la <sup>r</sup>			
3				ed to establish the compensation of the check any boxes for methods	he			
	_	•		CEO/Executive Director, but explain	ın Part III			
	<b>✓</b> Compensa	ation committee		Written employment contract				
		ent committee ent compensation consultant	<b>☑</b>	Compensation survey or study				
		of other organizations	$\overline{\mathbf{Z}}$	Approval by the board or compensa	ition committee			
4			990, Part VII, Se	ction A, line 1a, with respect to the f	iling organization or a			
	related organiza							
a ı.		ance payment or change-of-con		.6 d		4a	Yes	NI -
b c	•	r receive payment from, a suppl r receive payment from, an equ	•	' '		4b 4c		No No
·	•			blicable amounts for each item in Par	t III			110
		), 501(c)(4), and 501(c)(29)	_					
5		ed on Form 990, Part VII, Section Contingent on the revenues of		the organization pay or accrue any				
а	The organization					5a	Yes	
b	Any related orga	anızatıon? 5a or 5b, describe in Part III				5b		No_
6	-	·	n Allino 15 did	the organization pay or accrue any				
0	compensation c	ontingent on the net earnings of		the organization pay or accrue any				
a	The organization					6a		No
Ь	Any related orga	anization? 6a or 6b, describe in Part III				6b		No
7	•		ın Λ line 15 didi	the organization provide any nonfixe	d			
	payments not d	escribed in lines 5 and 6? If "Ye	s," describe in Pa	rt III	u	7		No
8				red pursuant to a contract that was section 53 4958-4(a)(3)? If "Yes," d	escribe	8		No
9	If "Yes" on line 3 53 4958-6(c)?	8, did the organization also follo	w the rebuttable	presumption procedure described in	Regulations section	9		
For I	Danerwork Bedu	iction Act Notice, see the Ins	tructions for Fo	orm 990 Cat No. 5	50053T Schedule 1	(Forn	990)	2017

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 instructions, on row (ii) Do not list any individuals that are not listed on Form 99 <b>Note.</b> The sum of columns (B)(i)-(iii) for each listed individual must equal the tot	90,	Part VII	-		-	·		/idual	
(A) Name and Title	(A) Name and Title			or 1099-MISC	(C) Retirement and other		(E) Total of columns	<b>(F)</b> Compensation in	
	,	(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation	deferred compensation		(B)(ı)-(D)	column (B) reported as deferred on prior Form 990	
See Additional Data Table							•		
	-								

Schedule J (Form 990) 2017											
Part III Supplemental Inform	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	VARI ALLOWS FOR FIRST-CLASS OR CHARTER TRAVEL FOR OFFICERS AND TRUSTEES										

Return Reference	Explanation
LINE 4A	INCLUDES SEVERANCE PAYMENTS TO DAVID WHITESCARVER OF \$256,837 FROM VAN ANDEL RESEARCH INSTITUTE FOR CALENDER YEAR 2017

Return Reference	Explanation
PART I, LINE 5	BONUS IS PAID BASED ON GRANT REVENUE EARNED FOR ELIGIBLE PROGRAM PARTICIPANTS

4990) 2011

DR PETER LAIRD

DR GERD PFEIFER

TED HEILMAN ASSOC DIRECT-SR PORTFOLIO MGR

DR GEORGE VANDE WOUDE

TRUSTEE/INVESTIGATOR

DAVID WHITESCARVER

FORMER SECRETARY/V P

INVESTIGATOR

INVESTIGATOR

(1)

(1)

(1)

(1)

(1)

377,688

346,680

220,911

247,396

256,837

23,248

10,632

167,940

Additional Data	1													
			Software ID:											
			<b>Software Version:</b>											
			EIN:	52-2000823										
			Name:	VAN ANDEL RESEARC	VAN ANDEL RESEARCH INSTITUTE									
orm 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 (D) Nontaxable (E) Total of columns (F) Compensation in														
(A) Name and Title		<b>(B)</b> Breakdown	of W-2 and/or 1099-MIS	C compensation	(C) Retirement and	(D) Nontaxable	(E) Total of columns	(F) Compensation in						
		(i) Base Compensation (ii) Bonus & incentive compensation		(iii) Other reportable compensation	other deferred compensation	benefits	(B)(ı)-(D)	column (B) reported as deferred on prior Form 990						
DAVID VAN ANDEL CHAIRMAN / CEO	(1)	366,923	102,000	21,404	128,250	976	619,553	102,000						
Civilia, 323	(11)	0	0	0	0	0	0	0						
DR JANA HALL CHIEF OPERATIONS OFFICER	(1)	351,551	68,250	3,564	136,650	11,206	571,221	68,250						
	(11)	0	0	0	0	0	0	0						
TIMOTHY MYERS V P & CHIEF FINANCIAL	(1)	270,346	37,636	810	95,875	11,206	415,873	37,636						
OFFICER	(11)	0	0	0	0	0	0	0						
DR PETER JONES CHIEF SCIENTIFIC OFFICER	(1)	542,780	146,710	22,563	191,092	11,206	914,351	146,710						
& RES DIR	(11)	0	0	0	0	0	0	0						
KATHY VOGELSANG CHIEF INVESTMENT OFFICER	(1)	341,372	248,800	20,322	360,300	11,206	982,000	248,800						
	(11)	0	0	0	0	0	0	0						
DR PATRIK BRUNDIN ASSOCIATE RESEARCH	(1)	435,382	51,062	2,322	104,179	11,206	604,151	51,062						
DIRECTOR	(11)	0	0	0	0	0	0	0						

2,322

3,564

17,159

21,902

38,526

47,611

35,012

217,848

26,540

0

11,206

11,206

11,206

1,812

462,075

407,094

635,064

297,650

295,363

23,248

10,632

167,940

38,526

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	hedule K orm 990)			Information o									0 1545-0	_
(,,		➤ Complete if the		swered "Yes" to Form s, and any additional				ovide des	criptions,			Z	017	/
Dena	rtment of the Treasury		•	► Attach to Form 99	0.							Оре	n to Pub	lic
Inter	nal Revenue Service	▶Informatio	n about Schedule	K (Form 990) and its	instruction	s is at <u>w</u>	ww.irs	s.gov/for	<u>m990</u> .	Emplo	ron idon		spection	
	ANDEL RESEARCH INSTITUTE										=	uncation	number	
D	Pond Toolog									52-20	00823			
Pa	(a) Issuer name	(b) Issuer EIN	(c) CUSIP #	(d) Date issued	(e) Issue	orico	/ 6	1 Doccripti	on of purpose	(a) Do	feased	(h)	<u></u>	(i) Pool
	(a) Issuel Hame	(b) issuer Liv	(6) 60317 #	(d) Date issued	(e) 133ue	Jiice	ζ.	) Descripti	on or purpose	(9)	ieaseu	behal		financing
										\		ıssu		
	MICHIGAN STRATEGIC FUND	52-1417332	000000000	10-01-2018	220.0	00 000	REFLINI	D BOND IS	SUE 4/01/13	Yes	No X	Yes	No Y	es No
	THE HOUR STRATEGIC FORD	32 1117332	00000000	10 01 2010	220,0	00,000	IXEI OIL	D DOND 13	301 1,01,13		Λ			^
Pa	rt III Proceeds													
	A				, A	Δ		E	3	С			D	
1_	Amount of bonds retired													
2	Amount of bonds legally defeas													
3	Total proceeds of issue					220,000,	,000							
4	Gross proceeds in reserve fund													
5	Capitalized interest from proceed													
6	Proceeds in refunding escrows													
7	Issuance costs from proceeds .													
8	Credit enhancement from proce													
9	Working capital expenditures fr	<u> </u>												
10	Capital expenditures from proce													
11	Other spent proceeds					220,000,	,000							
12	Other unspent proceeds													
13	Year of substantial completion													
					Yes	No		Yes	No	Yes	No		Yes	No
14	Were the bonds issued as part	of a current refunding	gıssue <sup>?</sup>	•	Х									
15	Were the bonds issued as part	of an advance refundi	ing issue?			X								
16	Has the final allocation of proce	eds been made? .			Х									
17	Does the organization maintain				×									
	proceeds?				^									
Pa	rt IIII Private Business Us	se			Γ				т.					
					Yes	A No		Yes	No No	Yes	No		Yes D	No
1	Was the organization a partner financed by tax-exempt bonds?				163	X		163	110	163	110		. 63	110
2	Are there any lease arrangeme property?	nts that may result in	private business us		Х									
For	Panerwork Reduction Act Noti			<b>)</b> _	Cal	No 501	193F		'		5	chedule	K (Form	990) 201

If "No" to line 1, did the following apply? . . . . Rebate not due yet? . . . . . . .

If "Yes" to line 2c, provide in Part VI the date the rebate computation was performed . . . . . . Is the bond issue a variable rate issue? . . . . .

Was the hedge superintegrated? . . . . . Was the hedge terminated? . . . . . . . .

Has the organization or the governmental issuer entered into a qualified

Exception to rebate? . . . . . . . .

hedge with respect to the bond issue?

 ${f c}$  Term of hedge . . . . . . . .

C

4a

				Α		В		С			D
			Ye	s No		Yes	No	Yes	No	Yes	No
3a	Are there any management or service contracts that may result in privat bond-financed property?		f x								
b	If "Yes" to line 3a, does the organization routinely engage bond counsel counsel to review any management or service contracts relating to the fi	or other outside	, x								
С	Are there any research agreements that may result in private business u property?	ise of bond-finan	ced X								
d	If "Yes" to line 3c, does the organization routinely engage bond counsel counsel to review any research agreements relating to the financed prop		×								
1	Enter the percentage of financed property used in a private business use a section $501(c)(3)$ organization or a state or local government		than	<b>,</b>				<u>'</u>			<b>'</b>
5	Enter the percentage of financed property used in a private business use as a result of unrelated trade or business activity carried on by your organization, another section 501(c)(3) organization, or a state or local government.			0 690	) %						
5	Total of lines 4 and 5			0 690	1 %						
7	Does the bond issue meet the private security or payment test?			X							
За	Has there been a sale or disposition of any of the bond-financed property nongovernmental person other than a $501(c)(3)$ organization since the bissued?			x							
b	If "Yes" to line 8a, enter the percentage of bond-financed property sold of	or disposed of .		•							•
С	If "Yes" to line 8a, was any remedial action taken pursuant to Regulation and 1 145-2?	s sections 1 141	-12								
•	Has the organization established written procedures to ensure that all no the issue are remediated in accordance with the requirements under Regulations sections 1 141-12 and 1 145-2?	•	of X								
Pai	t IV Arbitrage										
		A			В			С		C	)
		Yes	No	Yes		No	Yes	No		Yes	No
1	Has the issuer filed Form 8038-T, Arbitrage Rebate, Yield Reduction and Penalty in Lieu of Arbitrage Rebate?		X								

Page **2** 

Schedule K (Form 990) 2017

	issued.				· '	
b	If "Yes" to line 8a, enter the percentage of bond-financed property sold or disposed of					
С	If "Yes" to line 8a, was any remedial action taken pursuant to Regulations sections 1 141-12 and 1 145-2?					
9	Has the organization established written procedures to ensure that all nonqualified bonds of the issue are remediated in accordance with the requirements under  Regulations sections 1 141-12 and 1 145-2?	×				

Χ

Χ

Χ

Χ

Χ

Was the regulatory safe harbor for establishing the fair market value of

Were any gross proceeds invested beyond an available temporary

Has the organization established written procedures to monitor the

Procedures To Undertake Corrective Action

if self-remediation is not available under applicable regulations?

Has the organization established written procedures to ensure that violations of federal tax requirements are timely identified and corrected through the voluntary closing agreement program

the GIC satisfied? . . . . . . . . .

requirements of section 148? . . .

Schedule K (Form 990) 2017

period?

Part V

D

Yes

Yes

Χ

**Supplemental Information.** Provide additional information for responses to questions on Schedule K (see instructions).

No

В

Nο

No

Yes

Yes

No

No

Yes

Nο

Yes

Yes

Χ

No

Yes

efile GRAPHIC print - DO NOT PROCESS As Filed Data -DLN: 93493283009209 SCHEDULE M OMB No 1545-0047 **Noncash Contributions** (Form 990) ▶ 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 Open to Public Department of the Treasury Internal Revenue Service Inspection Name of the organization Employer identification number VAN ANDEL RESEARCH INSTITUTE 52-2000823 Part I Types of Property (b) (a) (c) (d) Check if Number of contributions or Noncash contribution Method of determining applicable items contributed amounts reported on noncash contribution amounts Form 990, Part VIII, line 1g 1 Art-Works of art . . Art—Historical treasures 3 Art—Fractional interests 4 Books and publications Clothing and household goods . . . . . Cars and other vehicles **7** Boats and planes . . 8 Intellectual property . . . Securities—Publicly traded . Χ 10,053 NYSE VALUE 10 Securities—Closely held stock . 11 Securities—Partnership, LLC, or trust interests . . . . 12 Securities—Miscellaneous . . 13 Qualified conservation contribution—Historic structures . . . . Qualified conservation contribution—Other . Real estate—Residential . Real estate—Commercial . 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 ▶ ( \_\_\_\_\_\_) Number of Forms 8283 received by the organization during the tax year for contributions 0 for which the organization completed Form 8283, Part IV, Donee Acknowledgement Yes No 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 30a Nο b If "Yes," describe the arrangement in Part II Does the organization have a gift acceptance policy that requires the review of any nonstandard contributions? 31 Nο 32a Does the organization hire or use third parties or related organizations to solicit, process, or sell noncash 32a No b If "Yes," describe in Part II If the organization did not report an amount in column (c) for a type of property for which column (a) is checked, Schedule M (Form 990) (2017) For Paperwork Reduction Act Notice, see the Instructions for Form 990. Cat No 51227J

Page 2 Schedule M (Form 990) (2017) 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 VARI IS REPORTING THE NUMBER OF CONTRIBUTIONS RECEIVED DURING THE TAX YEAR PART I, COLUMN (B) Schedule M (Form 990) (2017)

efile GRAPHIC print - DO NOT PROCESS					DLN: 93493283009209	
SCHEDUL (Form 990 or EZ)	990- Complete to pro Form 990 d ► Information abou	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 0 (Form 990 or 990-EZ) and its instructions is at  www.irs.gov/form990.		OMB No 1545-0047  2017  Open to Public Inspection		
Name of the org VAN ANDEL RESEA		n		<b>Employer ider</b> 52-2000823	itification number	
Return Reference		Explanation				
FORM 990, PART VI, SECTION A, LINE 2	VARI, VAI, VAEI, AND VAIGS SHARE COMMON MANAGEMENT DAVID VAN ANDEL, DR JANA HALL AND TIMOTHY MYERS ARE ALSO OFFICERS OF VAI, AND DAVID VAN ANDEL AND TIMOTHY MYERS ARE OFFICERS OF VAEI AND VAIGS					

Explanation Return Reference

FORM 990. THE TRUSTEES OF VAN ANDEL INSTITUTE HAVE THE AUTHORITY TO FLECT ONE OR MORE MEMBERS OF VARI'S **GOVERNING BODY** 

PART VI. SECTION A. LINE 7A

990 Schedule O, Supplemental Information

Return Explanation
Reference

FORM 990, PART VI, SECTION B, LINE 11B

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 12C	VARI HAS WRITTEN CONFLICT OF INTEREST ("COI") POLICIES AND PROCEDURES WHICH ADMINISTER AND ENFORCE A PROCESS TO IDENTIFY, EVALUATE, AND MANAGE POTENTIAL CONFLICTS OF INTEREST THESE POLICIES HAVE BEEN APPROVED BY THE BOARD OF TRUSTEES VAI ADMINISTERS COI POLICIES AND PROCEDURES THROUGH TWO STANDING COMMITTEES THE CONFLICTS COMMITTEE ("CC") AND THE INSTITUTIONAL COI COMMITTEE ("ICOIC") COI POLICIES AND PROCEDURES APPLY TO AND SERVE AS A GUIDE FOR EVERYONE IN THE ORGANIZATION IN PARTICULAR, THEY PROVIDE A USEFUL RESOURCE FOR DEVELOPING ACTIVITIES OR RELATIONSHIPS WITH OUTSIDE ENTITIES OR PERSONS, AND ESTABLISH A PROCESS FOR COMMITTEES TO REVIEW AND MANAGE POTENTIAL CONFLICTS OF INTEREST AS THEY MAY ARISE THE CC AND ICOIC ARE CHAIRED BY THE GENERAL COUNSEL THE CC REQUIRES ANNUAL AND UPDATED DISCLOSURES BY COVERED PERSONS AND REVIEWS AND APPROVES MANAGEMENT PLANS ICOIC POLICIES AND PROCEDURES SERVE AS A GUIDE FOR BOARDS OF TRUSTEES AND SENIOR EXECUTIVES IN THE EVENT A POTENTIAL COI ARISES AT THE BOARD OR SENIOR EXECUTIVE LEVEL, THE ICOIC MEETS TO REVIEW AND DETERMINE HOW TO MANAGE SUCH A POTENTIAL CONFLICT OF INTEREST IN ACCORDANCE WITH THE COI POLICIES AND PROCEDURES

Return Explanation

Reference

FORM 990,	COMPARABILITY DATA FROM AN EXPERT THIRD PARTY IS OBTAINED AND REVIEWED BY THE INDEPENDENT, JOINT
PART VI,	COMPENSATION COMMITTEE OF VAN ANDEL RESEARCH INSTITUTE AND RELATED ORGANIZATIONS TO DETERMINE
SECTION B,	APPROPRIATE COMPENSATION FOR THE CEO, EXECUTIVE MANAGEMENT OFFICIALS, OFFICERS, AND KEY
LINE 15	EMPLOYEES, ON BEHALF OF VAN ANDEL RESEARCH INSTITUTE

Return Explanation

LINE 19

FORM 990, PART VI, SECTION C,

990 Schedule O, Supplemental Information Explanation Return Reference

FORM 990, PART XI, LINE 9

Return Reference	Explanation
FORM 990, PART III, LINE 2	VAN ANDEL RESEARCH INSTITUTE (VARI) IS DEDICATED TO DETERMINING THE EPIGENETIC, GENETIC, MOLECULAR, AND CELLULAR ORIGINS OF CANCER, PARKINSON'S DISEASE, AND OTHER ILLNESSES AND TO TRANSLATING THOSE FINDINGS INTO EFFECTIVE THERAPIES THE INSTITUTE'S SCIENTISTS WORK IN ON-SITE LABORATORIES AND PARTICIPATE IN COLLABORATIONS THAT SPAN THE GLOBE THE INSTITUTE IS ORGANIZED INTO THE CENTER FOR CANCER AND CELL BIOLOGY, THE CENTER FOR EPIGENETICS, AND THE CENTER FOR NEURODEGENERATIVE SCIENCE VARI'S LABS ARE SUPPORTED BY AN OUTSTANDING CORE TECHNOLOGIES AND SERVICES GROUP, WHICH PROVIDES A VIVARIUM, A BIOREPOSITORY, AND VALUABLE ON-SITE CAPABILITIES IN IMAGING, PATHOLOGY, BIOINFORMATICS AND BIOSTATISTICS, GENOMICS, FLOW CYTOMETRY, AND CRYO-ELECTRON MICROSCOPY VARI SCIENTISTS PUBLISHED 116 ARTICLES THIS FISCAL YEAR IN PEER-REVIEWED JOURNALS THAT INCLUDED NATURE, SCIENCE, CELL, NATURE COMMUNICATIONS, NATURE GENETICS, NATURE MEDICINE, SCIENCE TRANSLATIONAL MEDICINE, CELL REPORTS, CELL DISCOVERY, CANCER RESEARCH, CLINICAL CANCER RESEARCH, NUCLEIC ACIDS RESEARCH, GENOME RESEARCH, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES U S A , ACTA NEUROPATHOLOGICAL, CANCER CELL, HUMAN MOLECULAR GENETICS, MOLECULAR CELL, MOLECULAR NEUROPATHOLOGICAL, CANCER CELL, HUMAN MOLECULAR GENETICS, MOLECULAR CELL, MOLECULAR CHMISTRY, JOURNAL OF BONE AND MINERAL RESEARCH, CELL AND TISSUE RESEARCH, SCIENTIFIC REPORTS, NJP BREAST CANCER, JOURNAL OF PARKINSON'S DISEASE, HEPATOLOGY, MOVEMENT DISORDERS, BIOCHEMISTRY, NEUROBIOLOGY OF DISEASE, JOURNAL OF NEUROSCIENCE, HUMAN MOLECULAR GENETICS, BLOOD, METABOLITES, JOURNAL OF PROTEOME RESEARCH, MOLECULAR AND CELLULAR PROTEOMICS, AND CURRENT THERAPEUTIC RESEARCH

990	Schedule	Ο,	Supplemental	Information

Return Reference	Explanation
FORM 990, PART III, LINE 4A	LINE 4A - PROGRAM SERVICE ACTIVITY #1 CENTER FOR CANCER AND CELL BIOLOGY THE CENTER FOR CA NCER AND CELL BIOLOGY, DIRECTED BY BAST WILLIAMS, PH D , COMPRISES 16 LABORATORIES ENGAGED IN BASIC RESEARCH IN MOLECULAR AND STRUCTURAL BIOLOGY AND IN TRANSLATIONAL RESEARCH ON CA NCERS, SKELETAL DISEASES, AND METABOLISM AND NUTRITION THE CENTER IS DIVIDED INTO PROGRAM S IN STRUCTURAL BIOLOGY, SKELETAL DISEASE AND CANCER THERAPEUTICS, AND A NEW PROGRAM IN ME TABOLIC AND NUTRITIONAL PROGRAMMING NEW FACULTY MEMBERS DRS RUSSELL JONES, CONNIE KRAWCZ YK, ANDREW POSPISILIK, AND ADELHEID LEMPRADL JOINED EXISTING FACULTY DRS BRIAN HAAB AND N ING WU TO ESTABLISH THE PROGRAM IN THIS FISCAL YEAR, RESEARCHERS AND TRAINEES WITHIN THE CENTER RECEIVED THREE NEW R01 AWARDS AND ONE RENEWAL R01, A U01 AWARD, AND AN F31 FELLOWSH IP FROM THE NATIONAL INSTITUTES OF HEALTH OTHER NEW AWARDS RECEIVED WERE FROM THE CHILDRE N'S TUMOR FOUNDATION, TWO RENEWAL AWARDS WERE RECEIVED FROM THE ARTHRITIS NATIONAL RESEARC H FOUNDATION, AND THE BREAST CANCER RESEARCH FOUNDATION THE STEENSMA LABORATORY STUDIED THE EFFECT OF THE LOSS OF THE NF1 GENE, WHICH ENCODES THE NEUROFIBROMIN ENZYME, ON BREAST C ANCER AND ON ESTROGEN RECEPTOR SIGNALING (DISCHINGRE ET AL. N. P.P.) BREAST CANCER 4 29) THE RESULTS SHOWED AS SHOWED AS INFINEMENT OF THE NF1 GENE IN BREAST CANCER AND A POSSIBLE FUNCTI ONAL LINK BETWEEN NEUROFIBROMIN AND THE ESTROGEN RECEPTOR SIGNALING (DISCHINGRE ET AL. N. P.P.) BREAST CANCER IN ANOTHER STUDY BY THE LAB, SOME MALIGNANT PERIPHERAL NERVES SHEATH TUMORS (MPNSTS), FOR WHICH THERE ARE NO EFFECTIVE THERAPIES, WERE FOUND TO BE SENSITIVE TO THE MET ONCOGENE INHIB ITOR CAPMATINIS (PEACOCK ET AL., CANCER RESEARCH 78(13) 3572-3687) A COMBINATION THEARPY OF CAPMATINIB AND THE ME KINASE INHIBITIOR TRAMETINIB RESULTED IN REDUCED RESPONSE VARIABILITY, SUPPRESSION OF RAS/ERK AND PISK/AKT SIGNALING, AND ENHANCED SUPPRESSION OF TUMOR GROWTH THE WILLIAMS AND YANG LABS TOGETHER PUBLISHED SEVERAL SKELETAL CREATE BONE OR CART ILLAGE THE ENZYME SENPE WAS FOUND TO

Return Reference	Explanation
FORM 990, PART III, LINE 4A	ITS INHIBITION OF THE RANKL SIGNALING PATHWAY MAY BE USEFUL IN TREATING CONDITIONS OF LOW BONE MASS XIAOHONG LI'S LABORATORY STUDIED THE ROLE OF TGF-BETA SIGNALING FROM WYELOID C LLLS IN METASTATIC BONE LESIONS (GANGULY ET AL., CANCERS 10 463) THEY SHOWED THAT SUCH S IGNALS PROMOTED OSTEOLYTIC BONE LESIONS AND THAT THE CTHRC1 PROTEIN AND BASIC FIBROBLAST G ROWTH FACTOR (BFGF) HAVE DIFFERENT, CELL-SPECIFIC FUNCTIONS THAT CONTRIBUTE TO BONE LESION DEVELOPMENT IN A SEPARATE STUDY (MENG ET AL., CANCER LETTERS 418 109-118), THE LI LAB F OUND THAT THE LOSS OF TGF-BETA SIGNALING IN OSTEOBLAST CELLS INCREASED THE AMOUNT OF BFGF AND CORRELATED WITH INCREASED TUMOR CELL PROLIFERATION AND ANGIOGENESIS BFGF MAY BE A PRO MISING TARGET FOR INHIBITING BONE METASTASIS IN PROSTATE AND BREAST CANCER ACTIVATION OF THE WNT SIGNALING PATHWAY IS A COMMON EVENT IN MANY CANCERS, AND WNT SIGNALING CAN BE HALT ED BY INHIBITING AN ENZYME CALLED PORCN A COLLABORATIVE STUDY BY THE WILLIAMS LAB AND THE VIRSHUP LAB AT DUKE UNIVERSITY FOUND THAT TWO PORCN INHIBITORS CAUSED A LOSS OF BONE VOLU ME AND DENSITY (MADAN ET AL., BONE RESEARCH 6 17) ALENDRONATE, A BISPHOSPHONATE, MITIGAT ED THE ADVERSE EFFECTS OF ONE OF THE INHIBITORS, SUPPORTING THE USE OF SUCH BONE-PROTECTIVE & AGENTS IN THE TREATMENT REGIMEN OF PATIENTS RECEIVING PORCN INHIBITORS IMPORTANT SCIENT IFIC ADVANCES ALSO WERE MADE BY MEMBERS OF THE STRUCTURAL BIOLOGY PROGRAM THE LU AND DU LAB USED STEED AND CHANNEL (FAN ET AL., ELIFE 7 E36852), WHICH IS ESSENTIAL FOR NEURON DE VELOPMENT IN THE BRAIN DYSFUNCTION OF TRPC3 IS LINKED TO NEURODEGENERATIVE DISEASES, AMON GOTHERS KNOWLEDGE OF ITS ATOMIC-LEVEL STRUCTURE AND MECHANISM OF FUNCTION ARE ESSENTIAL FOR DEVELOPING THER PROJECT HE STRUCTURE REGULATION AND THE WORLD HAD THE STRUCTURE BOTH SECRETIVE DISEASES, AMON GOTHERS KNOWLEDGE OF ITS ATOMIC-LEVEL STRUCTURE AND MECHANISM OF FUNCTION ARE ESSENTIAL FOR DEVELOPING THE BRAIN DYSFUNCTION OF TRRC2 IS LINKED TO THE HUMAN MOLECULE BUT IS BETTER SUITED TO STRUCTURAL STUDIES) AND THE STRUCTURE

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART III, LINE 4A	THE CARBOHYDRATE-BINDING SUBUNIT, MAY FUNCTION AS A HUB FOR INTEGRATING THE VARIETY OF RE GULATORY SIGNALS THAT AFFECT THE CELLULAR ENERGY LEVEL THE XU LAB PUBLISHED THE STRUCTURE OF THE HUMAN RHODOPSIN PROTEIN BOUND TO AN INHIBITORY OF PROTEIN, WHICH THEY DETERMINED USING CRYO-EM (KANG ET AL , NATURE 558(7711) 553-558) RHODOPSIN IS FOUND IN THE EYE AND IS ESSENTIAL FOR PERCEIVING LIGHT THE COMPARISON OF THIS NEW STRUCTURE TO OTHER STRUCTURES OF RHODOPSIN BOUND TO ACTIVATING G PROTEINS OR ARRESTINS PROVIDES A BASIS FOR UNDERSTANDIN G HOW RHODOPSIN FUNCTIONS IN SIGNALING THE PERCEPTION OF LIGHT THIS PUBLICATION WAS FEATURED IN THE NIH DIRECTOR'S BLOG BOTH LABS ALSO CONTRIBUTED TO THE DETERMINATION OF THE STRUCTURE OF THE HUMAN FRIZZLED 4 PROTEIN, WHICH IS INVOLVED IN BLOOD VESSEL DEVELOPMENT IN THE EYE'S RETINA THE STUDY SUGGESTS THAT FRIZZLED PROTEINS MAY HAVE AN ACTIVATION MECHANIS M DIFFERENT FROM THAT OF OTHER G-PROTEIN-COUPLED RECEPTORS LIKE RHODOPSIN (YANG ET AL , NA TURE 560(7720 686-870) HUILIN LI'S LABORATORY PUBLISHED A DIVERSE SET OF PAPERS IN 2018 BASED ON THE USE OF CRYO-EM ONE WAS A STUDY OF THE YEAST OLIGOSACCHARYLTRANSFERASE ENZYME COMPLEX, WHICH PROVIDED THE FIRST HIGH-RESOLUTION IMAGES OF THE INTERACTIONS OF ITS MULTI PLE SUBUNITS SEVEN PHOSPHOLIPID MOLECULES MEDIATE MANY OF THE INTERSUBUNIT INTERACTIONS (Bul ET AL , NATURE 556/696) 328-333) ANOTHER STUDY FOCUSED ON THE BACTERIAL SURFACE ST RUCTURE CALLED A PILUS USING CRYO-EM, AN INTERMEDIATE STAGE OF THE ASSEMBLY OF THE E COL I PILUS WAS IMAGED THE STRUCTURE SUGGESTED A MECHANISM FOR HOW THE GROWING PILUS IS STABILIZED AS IT INCORPORATES THOUSANDS OF SUBUNITS DURING ITS GROWTH, AND HAS IMPLICATIONS FOR THE STRUCTURE OF THE MTB CLPB COMPLEX BOUND TO CASEIN AS A MODEL SUBSTRA TE AND IDENTIFIED TWO DIFFERENT CONFORMERS BASED ON THEIR DIFFERENCES, THEY SUGGEST A MECHANISM FOR HOW THE COMPLEX BOUND TO CASEIN AS A MODEL SUBSTRA TE AND IDENTIFIED TWO DIFFERENT CONFORMERS BASED ON THEIR DIFFERENCES, THEY SUGGEST A MECHANISM FOR HOW THE COMPLEX BOUND

Return	Explanation
Reference	Explanation
FORM 990, PART III, LINE 4B	LINE 4B - PROGRAM SERVICE ACTIVITY #2 CENTER FOR EPIGENETICS THE CENTER, ESTABLISHED IN 20 14 AND DIRECTED BY PETER A JONES, PH D, D SC (HON), COMPRISES TEN LABORATORIES STUDYING EPIGENETICS, EPIGENOMICS, AND THE ROLE OF EPIGENETIC DYSFUNCTION IN CANCER, NEURODEGENERA TIVE DISEASE, CARDIOVASCULAR DISEASE, AND VIRAL TRANSCRIPTION DRS XIAOBING SHI AND HONG WEN JOINED THE CENTER IN 2018 NEW GRANT AWARDS IN THIS FISCAL YEAR FOR CENTER RESEARCHERS AND TRAINEES INCLUDED AN R01, AN R21, AN R37, AND AN F32 FROM THE NATIONAL INSTITUTES OF HEALTH, NEW FUNDING FROM THE MICHIGAN ECONOMIC DEVELOPMENT COMMISSION, A GRANT FROM EVANS MDS, AND TWO NEW FELLOWSHIPS FROM THE CANADIAN INSTITUTES OF HEALTH RESEARCH AND THE AWARDS MED, AND TWO NEW FELLOWSHIPS FROM THE CANADIAN INSTITUTES OF HEALTH RESEARCH AND THE AWARDS WERE ALSO RECEIVED THE VAN ANDEL RESEA RCH INSTITUTE-STAND UP TO CANCER EPIGENETICS DREAM TEAM, LED BY PETER JONES AND STEPHEN BA YLIN, CONTINUED IN 2018 WITH ITS AIMS OF DEVELOPING NEW COMBINATION THERAPIES TO COMBAT CA NCER AND MOVING PROMISING THERAPIES INTO CLINICAL TRIALS THE TEAM FOCUSES ON EPIGENTIC ME CHANISMS IN CELLS, WHICH HELP CONTROL WHETHER GENES ARE TURNED ON OR OFF, WITHOUT CHANGIN G THE DNA OR ADDITION/REMOVAL OF METHYL GRO UPS TO THE DNA OR ADDITION/REMOVAL OF METHYL GRO UPS TO THE DNA OR ADDITION/REMOVAL OF METHYL GRO CONTROL WHETHER GENES ARE THE STONE PROTEINS AR OUND WHICH DNA WRAPS THE LABORATORY OF PETER JONES PUBLISHED IN 2018 A COMPREHENSIVE MAP OF MORE THAN 500,000 ENDOGENOUS RETROVIRUSES (ERVS). IN THE INTERGENIC REGIONS OF THE HUMAN GENOME REPRESSIVE EPIGENETIC MARKS FOUND ON THE ERYS DEPENDED ON EVOLUTIONARY AGE, WITH DNA METHYLATION ASSOCIATED WITH YOUNGER AGE AND HISTONE METHYLATION WITH OLDER THIS FINDING MAY AID IN PREDICTING CANCER RESPONSE TO PROPENETIC THERAPIES, OHATINE AL., GENOME RESEARCH 28(8) 1147-1157) IN ANOTHER STUDY, OF OVARIAN CANCER CELLS, THE INHIBITION OF THE HISTONE METHYLATION OF THE VIRTURE GROONE RESEARCH 78(20) 5754-5766) IN A THIRD 2018 PUBLICATION, THE JONES LA

Return	Explanation
Reference	
FORM 990, PART III, LINE 4B	LINICAL OUTCOME (BLOOD 131(10) 1145-1148) THE TRICHE LAB ALSO IDENTIFIED A SET OF 14 TRA NSPOSABLE ELEMENTS (TES) IN DNA THAT MAY BE A BIOMARKER FOR HIGH- OR LOW-RISK ACUTE MYELOI D LEUKEMIA THIS SET COULD PREDICT PROGNOSIS IN INDEPENDENT COHORTS OF 284 PEDIATRIC PATIE NTS AND IN 19 RELAPSED ADULT PATIENTS STUDIES OF THE UTILITY OF THIS MARKER IN OTHER CANC ERS IS WARRANTED (SCIENTIFIC REPORTS 8 (1) 16449) IN ANOTHER STUDY OF TES IN HEALTHY INDI VIDUALS, SENESCENT HEMATOPOIETIC STEM AND PROGENITOR CELLS (HSPCS) EXPRESSED MORE TES THAN DID ACTIVE HSPCS, AND SENESCENT CELLS LACKED DNA METHYLATION IN THE REGIONS EXPRESSING MO RE TES THIS IS THE FIRST REPORT CHARACTERIZING THE METHYLATION OF THESE CELLS (EXPERIMENT AL HEMATOLOGY 62 33-3866) THE ROTHBART LABORATORY DEVELOPED A HIGH-THROUGHPUT PROTEOMICS PLATFORM THAT MAPS THE SEQUENCE DETERMINANTS OF SUBSTRATE SELECTIVITY OF THE ENZYME LYSIN E METHYLTRANSFERASE WITHOUT REQUIRING KNOWLEDGE OF A SUBSTRATE OR TARGET IN THIS APPROACH, A LYSINE-ORIENTED PETIDIE DIBRARY CAN BE USED TO IDENTIFY NEW SUBSTRATES AND TO DISCOVER NEW INHIBITORS OF THE ENZYME (CORNETT ET AL., SCIENCE ADVANCES 4 (11) EAAV2623) THE LAB ALSO ANALYZED THE ACTIVITIES OF THE E3 UBIQUITIN LIGASES UHRET AND UHRF2 AND FOUND CONSERV ED MODES OF RECOGNIZING HISTONE PROTEINS BUT DIFFERENT DNA-BINDING PROPERTIES THE STUDY D ESCRIBED THE DIFFERENCES IN THE ACTIVITY AND SUBSTRATES OF THESE TWO ENZYMES AND ASCRIBED THOSE DIFFERENCES TO THEIR CONTRASTING MOLECULAR ARCHITECTURES (VAUGHAN ET AL., NUCLEIC AC IDS RESEARCH 46(9) 4405-4416) FOR A STUDY OF THE SUBSTRATE SELECTIVITY OF UHRF1, THE LAB CONSTRUCTED EXPERIMENTAL SUBSTRATES AND ANALYZED THE ENZYME'S BINDING AND ACTIVITY TOWARD THEM THE RESULTS HOWED HOW THE ENZYME CHOOSES BETWEEN DNA AND HISTONE SUBSTRATES AND FO UND A "MOLECULAR SWITCH" THAT REDIRECTS UHRF1 ACTIVITY AWAY FROM HISTONES (VAUGHAN ET AL., PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES USA 115(35) 8775-8780) THIS STUDY PROVIDES A BASIS FOR FUTURE STUDIES OF UHRF1 FUNCTION AND ITS EFFECT ON THE

Return

Reference	
FORM 990,	MOLECULAR ANALYSIS OF GASTROINTESTINAL ADENOCARCINOMAS" (LIU ET AL , CANCER CELL 33(4) 72 1-735 E8)
PART III,	AND "INTEGRATED MOLECULAR CHARACTERIZATION OF TESTICULAR GERM CELL TUMORS" (SHEN ET AL , CELL
LINE 4B	REPORTS 23(11) 3392-3406) IN ADDITION, A SERIES OF OVER TWO DOZEN "PAN-CAN CER" PAPERS WERE
	PUBLISHED BY THE NETWORK IN THE SPRING OF 2018 IN WHICH DRS LAIRD AND SHEN (OR BOTH) WERE
	COAUTHORS LAIRD WAS THE LAST AUTHOR ON ONE OF THREE FLAGSHIP THEMATIC P APERS, "CELL-OF-ORIGIN
	PATTERNS DOMINATE THE MOLECULAR CLASSIFICATION OF 10,000 TUMORS FRO M 33 TYPES OF
	CANCER" (HOADLEY ET AL , CELL 173(2) 291-304 E6), AND SHEN WAS ONE OF SIX E XPERTS INVITED TO AUTHOR A
	RETROSPECTIVE ON TCGA'S LEGACY A SAMPLING OF THE PAN-CANCER PA PERS INCLUDES "GENOMIC AND
	MOLECULAR LANDSCAPE OF DNA DAMAGE REPAIR DEFICIENCY ACROSS THE CANCER GENOME
	ATLAS" (KNIJNENBURG ET AL, CELL REPORTS 33(4) 721-735 E8), "MACHINE LEARNI NG IDENTIFIES STEMNESS
	FEATURES ASSOCIATED WITH ONCOGENIC DEDIFFERENTIATION" (MALTA ET AL , CELL 173(2) 338-354 E15), "THE
	IMMUNE LANDSCAPE OF CANCER" (THORSSON ET AL , IMMUNITY 4 8(4) 812-830 E13), AND "ONCOGENIC SIGNALING
	PATHWAYS IN THE CANCER GENOME ATLAS" (SANCHEZ -VEGA ET AL. CELL 173(2) 321-337 E10)

Explanation

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Return Reference	Explanation
FORM 990, PART III, LINE 4C	LINE 4C - PROGRAM SERVICE ACTIVITY #3 CENTER FOR NEURODEGENERATIVE SCIENCE THE CENTER WAS ESTABLISHED IN 2012 UNDER PATRIK BRUNDIN, M D , PH D , WHO IS ALSO ASSOCIATE DIRECTOR OF V ARI IT CURRENTLY HAS NINE LABORATORIES STUDYING PARKINSON'S DISEASE, ALZHEIMER'S DISEASE, PRIONS, AND THE RELATIONSHIPS BETWEEN DEPRESSION, SUICIDE, AND BRAIN INFLAMMATION CENTER RESEARCHERS AND TRAINEES DURING THIS FISCAL YEAR RECEIVED TWO R21 GRANTS FROM THE NATIONAL INSTITUTES OF HEALTH AND FOUR AWARDS FROM THE MICHAEL J FOX FOUNDATION, AS WELL AS AWARD S FROM THE U S DEPARTMENT OF DEFENSE, THE EAST TENNESSEE FOUNDATION, AND MICHIGAN STATE UNIVERSITY ALSO RECEIVED WAS A FELLOWSHIP FROM THE PARKINSON'S DISEASE FOUNDATION, AND FOUR GRANT SUBAWARDS PATRIK BRUNDIN'S LABORATORY BIOCHEMICALLY PROFILED MORE THAN 250 CHEM ICALS FOUND IN BRAIN TISSUE AND SERUM FROM A PARKINSON'S DISEASE MOUSE MODEL (GRAHAM ET AL , JOURNAL OF PROTEOME RESEARCH 17(7) 2460-2469) THEY IDENTIFIED THE BEST SIX OF THESE M ETTABOLITES IN TERMS OF IDENTIFYING DISEASED ANIMALS FROM CONTROLS THE STUDY PROVIDES AN E ARLY STEP IN DEVELOPING ROBUST BIOMARKERS FOR PARKINSON'S DISEASE, WHICH ARE LACKING ANOT HER STUDY PROFILED 18 BILE ACIDS FOUND IN THE SERUM OF MICE HAVING PRODROMAL PARKINSON'S DISEASE (GRAHAM ET AL , METABOLITES 8(4) 71) THE CONCENTRATIONS OF THREE OF THESE COMPOUN DS WERE SIGNIFICANTLY DIFFERENT FROM THOSE OF CONTROL MICE, AND THOSE DATA COULD DISCRIMIN ATE BETWEEN PRODROMAL AND CONTROL MICE WITH HIGH ACCURACY THESE COMPOUNDS ARE CANDIDATE BIOMARKERS FOR PREDICTING PARKINSON'S DISEASE, AND POSSIBLY ITS PROGRESSION IN A THIRD STUDY, THE LAB REPORTED THAT 12-18 MONTHS AFTER INJECTION OF ALPHA-SYNUCLEIN FIBRILS INTO THE MOUSE OLFACTORY BULB, THE NUMBER OF BRAIN REGIONS SHOWING PARKINSON'S-LIKE PATHOLOGY INCRE ASED, BUT AT 23 MONTHS, NO ADDITIONAL REGIONS WERE AFFECTED (REY ET AL , ACTA NEUROPATHOLO GICA 135 (1) 65-83) THE REASON FOR THE LACK OF CONTINUED PROGRESSION COULD BE COMPROMISED NEURAL CIRCUITTY DUE TO THE EXTENT OF NEURON DEATH FROM THE PAPPENDIX

990	Schedule	Ο,	Supplemental	Information

Return Reference	Explanation
FORM 990, PART III, LINE 4C	E CONVERSION OF NORMAL PRION PROTEIN TO A PATHOGENIC FORM WAS RELATED TO THE AMOUNT OF ENZ YMERESISTANT RECOMBINANT PRION FRAGMENTS (WANG ET AL., ACTA NEUROPATHOLOGICA COMMUNICATIONS 6 30) THE MA LAB ALSO COLLABORATED IN A STUDY OF THE ROLE OF 14-3-3 PROTEINS IN THE C ELL-TO-CELL TRANSFER OF ALPHA-SYNUCLEIN SUCH PROTEINS REDUCED ALPHA-SYNUCLEIN SIN THE C ELL-TO-CELL TRANSFER OF ALPHA-SYNUCLEIN SUCH PROTEINS REDUCED ALPHA-SYNUCLEIN TRANSFER AN D TOXICITY, BUT INHIBITION OF 14-3-3 PROTEINS MAY BE A KEY ELEMENT IN ALPHA-SYNUCLEIN PROPAGATION (WANG ET AL., JOURNAL OF NEUROSCIENCE 38(38) 8211-8232) IN ANOTHER PROJECT, THEY STUDIED THE AGGREGATION OF ALPHA -SYNUCLEIN IN BRAIN TISSUE FROM PATIENTS WHO HAD THE NEURODEGENERATIVE DISORDER CALLED MUL TIPLE SYSTEM ATROPHY ADAPTING THE PROMA ASSAY, THEY CONFIRMED THAT THE SEEDING ACTIVITY OF ALPHA-SYNUCLEIN REMAINS ACTIVE EVEN IN FORMALDEHYDE-FIXED TISSUES (BECKER ET AL., MOLECUL AR NEUROBIOLOGY 55(11) 8728-8737) THIS STUDY ALSO PROVIDES A BASIS FOR FURTHER ADAPTING THE PMCA ASSAY FOR EVALUATING ALPHA-SYNUCLEIN AGGREGATES AS A BIOMARKER OF DISEASE DARREN MOORE'S LAB REPORTED A NEW FUNCTIONAL INTERACTION BETWEEN THE PARKIN AND VPS35 PROTEINS, BOTH OF WHICH HAVE BEEN FOUND MUTATED IN INHERITED PARKINSON'S DISEASE (WILLIAMS ET AL., HUMAN MOLECULAR GENETICS 27(18) 3189-3205) PARKIN UBIQUITINATES VPS35 IN HUMAN NEURONS, A PROCESS THAT MAY BE INVOLVED IN REGULATING RETROMER-DEPENDENT SORTING AND WHICH MAY HAVE EFFECTS IN PARKINSON'S DISEASE IN ANOTHER STUDY, THE LAB FOCUSED ON THE LRRK2 GENE, MUTAT IONS IN WHICH CAUSE LATE-ONSET PARKINSON'S DISEASE SUCH MUTATIONS TYPICALLY CAN GIVE RISE TO THE CHARACTERISTIC LEWY BODIES IN NEURONS BUT CAN ALSO INDUCE TAU-POSITIVE NEUROPATHOL OGY THE DATA SUGGESTED THAT MUTANT TAU-INDUCED PATHOLOGY IS INDEPENDENT OF LRRK2 EXPRESSI ON BUT ALSO SHOWED A NOVEL ROLE FOR LRRK2 IN PROMOTING NEURONAL TRANSMISSION OF WILD-TYPE TAU PROTEIN THIS FINDING MAY AID IN UNDERSTANDING HOW TAU PATHOLOGY DEVELOPS IN THE BRAIN SO PATIENTS WHO HAVE LRRK2 EXPRESSION ON

990 Schedule O, Supplemental Information

Return

Reference	
FORM 990,	TE, IN PRESS) THE RESULTS PROVIDE INSIGHT INTO THE GENETIC ARCHITECTURE THAT CONTRIBUTES TO

Explanation

PORM 990, TE, IN PRESS) THE RESULTS PROVIDE INSIGHT INTO THE GENETIC ARCHITECTURE THAT CONTRIBUTES TO PART III, COLORECTAL CANCER AND WILL HELP IMPROVE THE SCREENING OF INDIVIDUALS FOR PREDICTING THE IR RISK OF LINE 4C THE DISEASE

Return Explanation

Reference	
FORM 990,	FUNDRAISING EXPENSES AT VARI WERE INCURRED TO SUPPORT THE MISSION OF THE RESEARCH INSTITUTE
PART IX,	THROUGH DONOR SOLICITATION, GRANT SOLICITATION AND EXTRAMURAL PROPOSAL PREPARATION
COLUMN D	

Return Explanation

Reference

FORM 990,	VARI NET ASSETS ARE CONSIDERED ON A CONSOLIDATED BASIS WITH VAN ANDEL INSTITUTE (VAI)AND VAN ANDEL
PART X,	EDUCATION INSTITUTE (VAEI) ON A CONSOLIDATED BASIS, NET ASSETS ARE \$1,545,485,000 PER AUDITED FINANCIAL
LINE 33	STATEMENTS THE NEGATIVE NET ASSET BALANCE AT VARI IS DUE TO VAI FUNDING EXPENSES ON A CASH BASIS

AND THE UNREALIZED LOSS RECORDED IN ASSOCIATION WITH THE INTEREST RATE SWAP

efile GRAPHIC print - DO NOT PROCESS | As Filed Data - SCHEDULE R

(Form 990)

Department of the Treasury

Name of the organization VAN ANDEL RESEARCH INSTITUTE

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 <u>www.irs.gov/form990</u>.

OMB No 1545-0047

DLN: 93493283009209

ZUI/

Open to Public Inspection

**Employer identification number** 

				52-2000823			
Part I Identification of Disregarded Entities Complete	e if the organization answer	ed "Yes" on Form	990, Part IV, line 3	3.			
(a) Name, address, and EIN (If applicable) of disregarded entity	<b>(b)</b> Primary activity	(c) Legal domicile (s or foreign count		(e) End-of-year assets	(f) Direct controlling entity		
(1) VAI INNOVATIONS LLC 333 BOSTWICK AVENUE NE GRAND RAPIDS, MI 495032518 52-2000823	LICENSING INTELLECTUA PROPERTY OF VARI	AL MI	C	0	VAN ANDEL RESEARCH INS	TITUTE	_
(2) BOSTWICK EVENT MANAGEMENT 333 BOSTWICK AVENUE NE GRAND RAPIDS, MI 495032518 52-2000823	EVENT MANAGEMENT	MI	42,533	118,162	VAN ANDEL RESEARCH INS	TITUTE	
							_
							-
Part II Identification of Related Tax-Exempt Organizations related tax-exempt organizations during the tax year		nization answered	"Yes" on Form 990,	Part IV, line 34 b	ecause it had one or	more	
(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))	<b>(f)</b> Direct controlling entity	Section (13) co	
						Yes	No
(1)VAN ANDEL INSTITUTE 333 BOSTWICK AVENUE NE	SUPPORTING ORGANIZATION FOR VARI AND VAEI	MI	501(C)(3)	12C	N/A		No
GRAND RAPIDS, MI 495032518 52-2000820							
(2)VAN ANDEL EDUCATION INSTITUTE 333 BOSTWICK AVENUE NE	OPERATING A SCIENCE EDUCATION PROGRAM	MI	501(C)(3)	2	VAN ANDEL INSTITUTE	Yes	
GRAND RAPIDS, MI 495032518 52-2000824							
(3)VAN ANDEL INSTITUTE GRADUATE SCHOOL 333 BOSTWICK AVENUE NE	OPERATING A GRADUATE SCHOOL	MI	501(C)(3)	2	VAN ANDEL EDUCATION INSTITUTE	Yes	
GRAND RAPIDS, ME 495032518 20-3340886							
						<u> </u>	
						+	
For Paperwork Reduction Act Notice, see the Instructions for For	 m 990.	Cat No 5013			Schedule R (Form	990) 20	017

(a) Name, address, and EIN of related organization		<b>(b)</b> Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Predomina income(rela unrelate excluded fi tax unde sections 5 514)	ated, to d, rom er	<b>(f)</b> Share of otal income	(g) Share of end-of-year assets	( <b>I</b> Disprop alloca	rtionate tions?	(i) Code V-UBI amount in box 20 of Schedule K-1 (Form 1065)	parti	ral or iging ner?	(k) Percent owners
									Yes	No		Yes	No	
													$\dashv$	
													_	
Identification of Related Organiza							ion answ	ered "Yes	" on Fo	orm 99	90, Part IV,	line	34	
because it had one or more related o	rganizations treated as (b)		(c)	st during th	(d)	r. (e	<u>,                                      </u>	(f)		(g)	(1	1)		<u> </u>
Name, address, and EIN of related organization	Primary activity	l do (state	Legal omicile or foreign		t controlling	Type of (C corp, or tru	entity S S corp,	Share of total income		of end- year assets		ntage	(1	(ı) ection 5 13) conf entit
		Co	ountry)											Yes
									+				-	$\dashv$
	I								1		1		- 1	- 1

Part V Transactions With Related Organizations Complete of 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		Yes	No
1 During the tax year, did the orgranization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?			
a Receipt of (i) interest, (ii) annuities, (iii) royalties, or(iv) rent from a controlled entity	1a		No
<b>b</b> Gift, grant, or capital contribution to related organization(s)	<b>1</b> b		No
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	Yes	
f Dividends from related organization(s)	<b>1</b> f		No
g Sale of assets to related organization(s)	<b>1</b> g		No
h Purchase of assets from related organization(s)	1h		No
i Exchange of assets with related organization(s)	<b>1</b> i		No
j Lease of facilities, equipment, or other assets to related organization(s)	<b>1</b> j		No
k Lease of facilities, equipment, or other assets from related organization(s)	1k	_	No
I Performance of services or membership or fundraising solicitations for related organization(s)	11		No
	1 m	$\pm$	No

i	Exchange of assets with related organization(s)	1i		No
j	Lease of facilities, equipment, or other assets to related organization(s)	1j		No
k	Lease of facilities, equipment, or other assets from related organization(s)	1k		No
- 1	Performance of services or membership or fundraising solicitations for related organization(s)	11		No
n	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	
О	Sharing of paid employees with related organization(s)	10	Yes	
P	Reimbursement paid to related organization(s) for expenses	<b>1</b> p	Yes	

I Performance of services or membership or fundraising solicitations for related organization(s) $\dots$ $\dots$				+ 1	140
$m{m}$ 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 Ye	s
o Sharing of paid employees with related organization(s)				1o Ye	s
p Reimbursement paid to related organization(s) for expenses				1p Ye	s
<b>q</b> Reimbursement paid by related organization(s) for expenses				1q Ye	s
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. See Additional Data Table	e, including covered i	relationships and trar	saction thresholds		
(a) Name of related organization	(b) Transaction type (a-s)	(c) Amount involved	( <b>d)</b> Method of determining ar	mount involv	red

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

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

<b>(a)</b> Name, address, and EIN of entity	<b>(b)</b> Primary activity	(c) Legal domicile (state or foreign country)	(d) Predominant income (related, unrelated, excluded from tax under sections 512-	Ar	(e) e all partners section 501(c)(3) rganizations?	(f) Share of total Income	(g) Share of end-of-year assets	(h) Disproprtiona allocations?		Code V-UBI amount in box 20 of Schedule K-1 (Form 1065)	(1) General managin partner	ig ?	<b>(k)</b> Percentage ownership
			514)	Yes	No			Yes	No		Yes	No	
													_
									•	Schedul	e R (Forn	n 99	0) 2017

Schedule R (Form 990) 2017 Part VII Supplemental Information Provide additional information for responses to questions on Schedule R (see instructions) Schedule R (Form 990) 2017

## **Additional Data**

VAN ANDEL EDUCATION INSTITUTE

VAN ANDEL EDUCATION INSTITUTE

VAN ANDEL EDUCATION INSTITUTE

VAN ANDEL INSTITUTE GRADUATE SCHOOL

VAN ANDEL INSTITUTE

VAN ANDEL INSTITUTE

## Software ID: Software Version:

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

EIN: 52-2000823

Name: VAN ANDEL RESEARCH INSTITUTE

(a) Name of related organization	(b) Transaction type(a-s)	(c) Amount Involved	(d) Method of determining amount involved
VAN ANDEL INSTITUTE	С	54,765,920	ACTUAL AMOUNT PAID
VAN ANDEL INSTITUTE	Е	19,640,000	TOTAL RECORDED
VAN ANDEL INSTITUTE	N	313,545	ALLOCATION BASED ON SQ FOOTAGE
VAN ANDEL INSTITUTE	Р	1,258,660	ACTUAL AMOUNT PAID
VAN ANDEL INSTITUTE	N	191,463	ALLOCATION BASED ON EFFORT
VAN ANDEL INSTITUTE	0	1,283,588	ALLOCATION BASED ON EFFORT
VAN ANDEL EDUCATION INSTITUTE	Р	178,528	ACTUAL AMOUNT PAID

Q

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Ν

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Q

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Q

Е

1,642,569

48,313

323,896

79,895

23,262

176,369

240,227

155,950

6,480,507

5,975,807

ACTUAL AMOUNT RECEIVED

ALLOCATION BASED ON EFFORT

ALLOCATION BASED ON EFFORT

ALLOCATION BASED ON EFFORT

ALLOCATION BASED ON EFFORT

ACTUAL AMOUNT RECEIVED

ACTUAL AMOUNT PAID

TOTAL RECORDED

APPORTIONED FY18 COMPENSATION

ALLOCATION BASED ON SQ FOOTAGE