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University of Minnesota

Government and Community Relations
Office of the President

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TO: Chris Steller, Minnesota Legislative Reference Library

FROM: Keeya Steel, University of Minnesota Government and Community Relations

DATE: January 15, 2019

RE: Regenerative Medicine Partnership Mandated Report

Enclosed are two copies of the mandated report, Regenerative Medicine Partnership, pursuant to 2014 Minnesota Laws Chapter 312, Article 1, Section 4, Subdivision 2.

This report can also be found online: http://government-relations.umn.edu/state/legislative-materials

If you have any questions regarding this report or to obtain additional copies, please contact the Office of Government and Community Relations at 612-626-9234.

cc: Senator Paul Anderson, Senate Higher Education Finance and Policy Chair Senator Greg Clausen, Senate Higher Education Finance and Policy Ranking Minority Member

Representative Connie Bernardy, House Higher Education Finance and Policy Chair Representative Bud Nornes, House Higher Education Finance and Policy Ranking Minority Member

Senator Eric Pratt, Senate Jobs and Economic Growth Finance and Policy Chair Senator Bobby Joe Champion, Senate Jobs and Economic Growth Finance and Policy Ranking Minority Member

Representative Tim Mahoney, House Jobs and Economic Development Finance Chair Representative Bob Gunther, House Jobs and Economic Development Finance Ranking Minority Member

Representative Gene Pelowski, House Greater Minnesota Jobs and Economic Development Finance Chair

Representative Paul Anderson, House Greater Minnesota Jobs and Economic Development Finance Ranking Minority Member

Driven to DiscoverSM



January 15, 2019

Senator Paul Anderson, Chair, Higher Education Finance and Policy Senator Greg Clausen, Ranking Minority Lead, Higher Education Finance and Policy Representative Connie Bernardy, Chair, Higher Education Finance and Policy Representative Bud Nornes, Ranking Minority Lead, Higher Education Finance and Policy

Senator Eric Pratt, Chair, Jobs and Economic Growth
Senator Bobby Joe Champion, Ranking Minority Lead, Job and Economic Growth
Representative Mahoney, Chair, Jobs and Economic Development Finance Division
Representative Bob Gunther, Ranking Minority Lead on Jobs and Economic Development Finance
Division

Representative Gene Pelowski, Chair, Greater Minnesota Jobs and Economic Development Finance Division

Representative Paul Anderson, Ranking Minority Lead, Greater Minnesota Jobs and Economic Development Finance Division

Dear Legislators,

Per Chapter 312, Article 1, Section 4 of Laws of Minnesota 2014, please accept our report on the Regenerative Medicine Minnesota (RMM) partnership. Included in this package you will find the required auditors' report on their review of the program. We have also included a one-page summary of awards made and expected total spending against those awards and a map showing the geographic location of the awards throughout the state of Minnesota.

RMM is administered jointly by Dr. Jakub Tolar at the University of Minnesota and Dr. André Terzic at the Mayo Clinic, with input and oversight by a board including representation from biomedical industry, education, legislature, and clinical medicine.

The RMM program has been a resounding success to date. In the first two years of the program (FYs 15-16), 15 research programs were funded that address critical health care needs such as heart disease, diabetes, Parkinson's disease, degenerative arthritis, blood cancers, ALS, and brain and spine injury. Additionally, 13 awards were made to small businesses for development of regenerative medicine infrastructure such as cell culture technologies, as well as for new technologies such as a system to support the growth of artificial lungs and development of a vascular graft that can grow with young heart patients and eliminate the need for repeated open-heart surgeries.

In the past two years of the program (FYs 17-18), via the funding of 25 grants, the education program has expanded throughout the state, reaching students from Kindergarten to doctoral candidates. A network of curriculum and resource sharing evolved organically out of one of our first year grants, and it has helped rapidly provide these resources to schools wanting to participate. Funds went to create a

biology lab/major at Bemidji State University and to fund several programs for students at reservation schools in northern Minnesota. RMM has funded 23 research programs that address high impact health problems like liver disease, diabetes, cancer, spinal cord regeneration, and fetoscopic repair of a severe heart defect. Biobusiness programs received 16 additional awards in areas as diverse as nerve regeneration and using stem cells to line a manufactured airway.

More information about all of these programs are available on our website: www.regenmedmn.org.

Thank you for your support of Regenerative Medicine Minnesota. We look forward to a productive and exciting future as we work to improve the health of Minnesotans across the state.

Sincerely,

Jakub Tolar, MD, PhD

Vice President for Academic Clinical Affairs

University of Minnesota

c:

Andre Terzic, MD, PhD Senator Dick Cohen

Rep. Tony Albright

Gregory Gores, MD Executive Dean for Research

John & Hars

Mayo Clinic

Deloitte.

Deloitte & Touche LLP

Suite 2800 50 South Sixth Street Minneapolis, MN 55402-1538 USA

Tel: +1 612 397 4000 Fax: +1 612 397 4450 www.deloitte.com

Independent Accountant's Report on Applying Agreed-Upon Procedures

Management of the University of Minnesota 1300 South Second Street Minneapolis, MN 55454

We have performed procedures enumerated below, which were agreed to by the University of Minnesota Controller's Office, on the University of Minnesota's (the "University") compliance with Chapter 69, Article 1, Section 5 of the Laws of Minnesota. The University of Minnesota Controller's Office is responsible for the University's compliance with Chapter 69, Article 1, Section 5 of the Laws of Minnesota. The sufficiency of these procedures is solely the responsibility of the parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures enumerated below either for the purpose for which this report has been requested or for any other purpose.

Our procedures and findings are as follows:

We obtained the Statement of Expenditures by Subrecipient (the "Statement") for the period from July 1, 2016 to June 30, 2018, and the Attachment of Subrecipients with Affiliations (the "Attachment") as prepared by management. The Attachment has been included as Exhibit A to this report.

- We recalculated the total dollar amounts on the Statement and compared the amounts on each line on the Statement to the corresponding amounts on the reconciliation prepared by management between the University's general ledger and the amounts on the Statement, noting no exceptions.
- 2. We compared the dollar amounts on management's reconciliation to the University's general ledger and recalculated the total presented in the Statement, noting no exceptions.
- 3. We compared actual expenditures by project number to the Budget Information section of the Notice of Grant Awarded (NoGA) obtained from management. We noted no project numbers where total expenditures by project number exceeded the approved budget limit.
- 4. We randomly selected five of the Principal Investigators (PI) affiliated with the University from the Statement, which represented 20% of the total PIs affiliated with the University, and obtained the expenditure detail for the selected PIs during the period from July 1, 2016 to June 30, 2018. We randomly selected 40 total expenditure selections from the expenditure detail and traced and agreed the amounts to source documents, noting no exceptions.
- 5. We randomly selected five PIs whose affiliations are outside of the University from the Statement and obtained the subaward agreements from management. We inspected the subaward agreements for evidence of appropriate approvals by the University and the subrecipient, noting no exceptions.
- 6. We obtained and documented an understanding of the University's policies and procedures in place to monitor that awards are expended in accordance with Chapter 69, Article 1, Section 5 of the Laws of Minnesota, noting policies and procedures were in place and appropriately applied based on the understanding we obtained.

This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an examination or review, the objective of which would be the expression of an opinion or conclusion, respectively, on the University's compliance with Chapter 69, Article 1, Section 5 of the Laws of Minnesota. Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the information and use of the University, the University's Board of Regents, and authorized representatives of the State of Minnesota, and is not intended to be and should not be used by anyone other than these specified parties.

November 14, 2018

Deloitte: Touche LLP

Attachment of Subrecipients with Affiliations

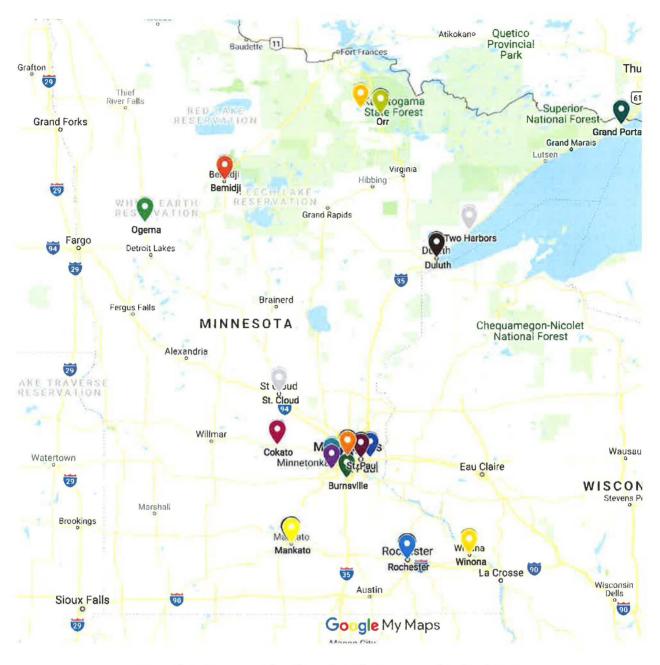
For the period from July 1, 2016 to June 30, 2018

Recipient	Affiliation					
Bruns, Jason	*					
Burns, Terence	Mayo Clinic					
Bydon, Mohamad	Mayo Clinic					
Carlson, Daniel	*					
Chan, Sunny	University of Minnesota					
Chen, Ping	Mayo Clinic					
Cvetanovic, Marija	University of Minnesota					
Daughters, Randy	*					
DeSilva, Mauris	*					
Devaux, Patricia	Mayo Clinic					
Dragomir-Daescu, Dan	Mayo Clinic					
Dutton, James	University of Minnesota					
Echeverri, Karen	University of Minnesota					
Foxen, Jilian	Mayo Clinic					
French, Karlene	*					
Garry, Daniel	University of Minnesota					
Hogdal, Leah	*					
Holtan, Shernan	University of Minnesota					
Huppert, Melissa	*					
Ikeda, Yasuhiro	Mayo Clinic					

Recipient	Affiliation					
Jang, Mi-Hyeon	Mayo Clinic					
Kenderian, Saad	Mayo Clinic					
Kikyo, Nobuaki	University of Minnesota					
Krych, Aaron	Mayo Clinic					
Lillegard, Joseph	Mayo Clinic					
Low, Walter	University of Minnesota					
Lund, Troy	University of Minnesota					
McAlpine, Michael	University of Minnesota					
Ninas, Jonathon	Mayo Clinic					
O'Brien, Timothy	*					
Osborn, Mark	University of Minnesota					
Owen, Mary	University of Minnesota					
Rao, Raghavendra	University of Minnesota					
Reinhart, Todd	*					
Resch, Zachary	Mayo Clinic					
Revzin, Alexander	Mayo Clinic					
Ruano, Rodrigo	Mayo Clinic					
Schorgl, John	*					
Thompson, James	*					
Tranquillo, Robert	University of Minnesota					
Uzarski, Joseph	*					
van Berlo, Jop	University of Minnesota					
Wallert, Mark	*					

Recipient	Affiliation					
Wallis, Alicia	*					
Westendorf, Jennifer	Mayo Clinic					
Wilson, Tracy	*					
Wirta Kosobuski, Anna	University of Minnesota					
Wyles, Saranya	Mayo Clinic					
Yamada, Satsuki	Mayo Clinic					
Zojonc, Stephanie	*					

^{*}Researcher is not affiliated with the University of Minnesota or Mayo Clinic



Map of RMM grant funding distribution as of 11/15/2018 Includes research, biobusiness/biotechnology and education grants K-post-doctoral.



Regenerative Medicine Minnesota Awards Made 7.1.16 - 6.30.18

						Expended	Encumbered		Projected
	Number	Dollars			7/	1/16 through		Encumbered	Total
	of Awards	Awarded	Start Date	Award Term		6/30/18	Spending	FY20 Spending	Spending
FY17									
Research Grants - Discovery Science	6	\$ 1,499,817	Mar - May 2017	2 years	\$	842,604	657,213		1,499,817
Research Grants - Translational Science	2	\$ 500,000	Mar - May 2017	2 years	\$	276,471	223,529		500,000
Clinical Trials	2	\$ 997,966	March 2017	2 years	\$	244,885	400,000	353,081	997,966
Biotechnology/BioBusiness Grants	9	\$ 898,218	May - Aug 2017	1 year	\$	667,913	230,195		898,108
Education Programs - Grades 3-12	7	\$ 122,069	May - Sept 2017	1 year	\$	80,258	26,021		106,279
Education Programs - College	3	\$ 280,267	May - June 2017	1 year	\$	257,888	4,986		262,874
Graduate Scholars	2	\$ 170,393	June 2017	1 year	\$	108,814	4,201		113,015
		\$ 4,468,730			\$	2,478,833	\$ 1,546,145	\$ 353,081	\$ 4,378,059
Funding available	NOTE 1	\$ 4,350,000							
FY18									
Research Grants - Discovery Science	6	\$ 1,491,489	Mar-May 2018	2 years	\$	86,337	905,152	500,000	1,491,489
Research Grants - Translational Science	5	\$ 1,249,996	March 2018	2 years	\$	113,194	736,802	400,000	1,249,996
Clinical Trials	2	\$ 998,000	Mar - Apr 2018	2 years			499,000	499,000	998,000
Biotechnology/BioBusiness Grants	7	\$ 655,851	May - July 2018	1 year	\$	22,826	633,025		655,851
Education Programs - Grades 3-12	9	\$ 129,615	May - Sept 2018	1 year			129,615		129,615
Education Programs - College	2	\$ 124,202	May - Sept 2018	1 year			124,202		124,202
Graduate Scholars	2	\$ 146,571	_May - June 2018	1 year			146,571		146,571
		\$ 4,795,724			\$	222,357	\$ 3,174,367	\$ 1,399,000	\$ 4,795,724
Funding available	NOTE 1	\$ 4,350,000							

NOTE 1 Additional funding was carried forward from unspent prior years. Any remaining available balance will be carried forward into future years to be used for new awards.