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December 20, 2016

Dr. Tucker W. LeBien
Dr. Gregory J. Gores
Regenerative Medicine Minnesota
University of Minnesota

Dear Dr. LeBien and Dr. Gores,

Thank you for supporting SCRUBS Camp at Saint Paul College. The \$11,264 grant award from Regenerative Medicine Minnesota made it possible to offer eight, interactive regenerative medicine learning sessions within the program this year. These learning sessions benefited 88 high school students who gained skills and exposure to health care career pathways.

The attached outcome report summarizes results of our program, entitled “SCRUBS Camp at Saint Paul College” (Grant#: RMM-2016-312ED-08R). The report uses the format requested in the award letter.

Thank you again for your generosity to the Friends of Saint Paul College and to the young people of our community. Please let me know if you have any additional questions or if you would like to talk further. I am available at your convenience at 651-846-1469 or at laura.savin@saintpaul.edu.

Sincerely,

Laura Savin
Executive Director

cc: Jakub Tolar, MD, PhD, Co-Chair Regenerative Medicine Minnesota Funding Board
Andre Terzic, MD, PhD, Co-Chair Regenerative Medicine Minnesota Funding Board
Kristy Frost-Griep, Finance Director, University of Minnesota

Regenerative Medicine Minnesota Progress Report

Grant Title: Scholarships for 2016 SCRUBS Camp at Saint Paul College

Grant Number: RMM-2016-312ED-08R

Requester: Laura Savin

Project Timeline: May 1, 2016– May 22, 2017

Brief description of project:

Saint Paul College SCRUBS Camp 2016 introduced 88 high school students to careers in health care. Through a four-day summer camp experience, students gained understanding of health care career pathways, including those related to regenerative medicine. They explored careers through hands-on learning activities in laboratory settings, while also interacting with health science faculty and health care professionals. Over 75% of participants were from backgrounds underrepresented in health care careers being students of color and/or from low-income households.

Grant funds of \$11,264 from Regenerative Medicine Minnesota were used for program expenses associated with the eight, interactive regenerative medicine learning sessions. These expenses included staff salaries, food, supplies, transportation and program oversight (indirect). This support made it possible to eliminate or greatly reduce registration fees for the 66 high school students from low-income households.

Where did this project take place?

In partnership with HealthForce Minnesota, SCRUBS Camp 2016 took place at the Saint Paul College campus, located at 235 Marshall Avenue, Saint Paul, MN 55102. The program occurred between July 25 and July 28 of 2016.

People impacted by project and where they are from:

SCRUBS Camp engaged a total of 88 high school students. Of these participants, 66 (or 75%) received scholarship awards reducing or eliminating the \$385 registration fee. A total of 50 students (or 56%) received full scholarships attending at no cost to the families.

Participant demographics show the highly diverse population served by the program. Of the 66 scholarship recipients, 83% were students of color, 100% were from low-income households and 84% were female. These students were entering 9th, 10th, 11th or 12th grade in the fall of 2016 through over 38 local high schools.

What was the outcome of the project? (Did the project work the way you expected it to? What were the successes? What were the failures? How did it impact regenerative medicine in Minnesota?)

SCRUBS Camp 2016 successfully exposed 88 high school students to regenerative medicine concepts and career pathways, a 54% increase in enrollment from the 57 students served in 2015. This growth is attributed to the new partnerships developed with four first-ring suburban high schools – Woodbury High School, Eden Prairie High School, Hill Murray High School and

Roseville Area High School. The growth also stemmed from expanded partnership Saint Paul Public Schools and the Gear Up/Get Ready program. New and redesigned curriculum for regenerative medicine sessions strengthened the quality of the program.

Success of the program is further demonstrated by progress toward the program goals and associated indicators, as shown below:

GOAL 1: Engage high school students of backgrounds underrepresented in health science and/or healthcare professions to diversify the future healthcare workforce

Success Indicator – at least 75% of participants are students of color and/or are students from low-income households, as measured by race/ethnicity data and free and reduced school lunch data collected through program enrollment.

RESULTS: Of the 88 participants, 73 (or 83%) were students of color and/or from low-income households, exceeding the 75% success indicator target.

Success Indicator – at least 75% of participants receive financial assistance, reducing the program fee and thereby removing the financial barrier to participation. These recipients are from low-income households, as measured by financial assistance award acceptance forms collected through program enrollment.

RESULTS: Of the 88 participants, 66 (or 75%) received financial assistance, meeting the 75% success indicator target. SCRUBS Camp served a significant number of students from low-income households in need of financial assistance.

GOAL 2: Improve awareness of health science and healthcare career pathways

Success Indicator – at least 80% of participants will improve awareness of health science and healthcare career pathways, as measured by results of the pre/post program survey administered by HealthForce Minnesota.

RESULTS: Of the 88 participants, 77 (or 88%) shared that they are planning to enroll in college, and 86 (or 98%) indicated that they can see themselves pursuing a health care career after college.

The Saint Paul College SCRUBS Camp provided students with information about the health science educational opportunities at Saint Paul College. Sharon Blomgren and Jennifer Huston, who organized the camp, along with Dean of Workforce Training and Continuing Education Tracy Wilson, worked with staff and presenters to cohesively present the continuum of health care opportunities available to college students.

The student responses below from the post-survey show how students improved their awareness of health science and health care career pathways.

- *“This camp gave me the opportunity to learn more about the different careers that I can pursue in my future.”*
- *“The classes were very informative and helpful.”*
- *“The classes were well organized and educational, and also helped me to understand healthcare professions.”*
- *“SCRUBS Camp helped me to find a specialty that interests me within the broad career field of medicine.”*

GOAL 3: Improve awareness of regenerative medicine and how it is used in healthcare settings

Success Indicator – at least 80% of participants will improve awareness of regenerative medicine and how it’s used in healthcare settings, as measured by results of the pre/post program survey developed by Saint Paul College.

RESULTS: Of the 88 participants, 75 (or 85%) improved awareness of regenerative medicine and how it’s used in health care settings.

Participants gained awareness of regenerative medicine concepts and developed skills through eight interactive learning sessions. Descriptions for five of these sessions are shown below.

Stem Cells/Frogs (Biology): Students participated in a laboratory activity introducing concepts of molecular biology and regenerative medicine through artificial insemination of frog eggs. The session was led by Dr. Randy Daughters, biology faculty of the University of Minnesota Twin Cities.

Diagnostic Detectives (Medical Laboratory Technology, Phlebotomy and Hematology): Students explored the occupations of Medical Laboratory Technician, Phlebotomist and Hematologist through interactive laboratory activities. They collected blood samples, and then tested blood samples for hemoglobin. Next, they viewed blood cells under the microscope, and then attempted to detect abnormalities indicative of disease.

The Body (Anatomy and Physiology): Students explored human anatomy by dissecting organ systems of a representative mammal (fetal pig). They also learned how the heart works by exploring physiology of the cardiovascular system. Students listened to their own heart sounds and recorded their own electrocardiogram (ECG).

The Placebo Effect (Pharmacology) Students learned how drugs are developed, tested and approved for use in the United States. Students participated in pharmacy simulation activities and experience what it is like to work in a pharmacy. Lastly, students participated in a case study activity where they help an organ transplant patient with their medication.

Super Foods (Nutrition and Wellness): Students discovered why and how certain foods are “super foods” as they observed cooking demonstrations. Students also learned how

cells regenerate through a healthy and well balanced diet. They also experimented with specific healthy foods that help cells to regenerate faster.

Please list any of the following that have resulted from your Regenerative Medicine Minnesota grant funding:

- Publications and/or manuscripts submitted for publication
- Disclosures/patents
- Other grant applications and/or awards

Responsible Spending:

Please let us know how you spent the money. Any unspent funds must be returned.

The Friends of Saint Paul College spent 100% of the \$11,264 grant award for the 2016 SCRUBS Camp program. The financial report below shows how the funds were allocated as planned toward project activities.

**Financial Report: Friends of Saint Paul College
Saint Paul College SCRUBS Camp 2016**

Revenue	Budgeted	Actual
Institutional Giving - Regenerative Medicine Minnesota Grant	\$11,264	\$11,264
TOTAL REVENUE	\$11,264	\$11,264
Expense		
Staff Salaries (Camp Counselors- 3 staff)	\$1,200	\$581
Honorarium (5 faculty members)	\$1,463	\$1,460
Program Food	\$1,305	\$1,911
Program Supplies	\$1,315	\$2,428
Contract Services	\$3,000	\$1,900
Indirect Expense	\$2,981	\$2,984
TOTAL EXPENSE	\$11,264	\$11,264
Net Income	\$0	\$0

Of the program expenses, grant funding of \$11,264 from Regenerative Medicine Minnesota was used for SCRUBS Camp expenses of staff salaries (\$581), food (\$1,460), faculty honorarium (\$1,463), supplies (\$2,428), contract services (\$1,900), and indirect expense for program oversight (\$2,984).