

Regenerative Medicine Minnesota Progress Report

Grant Title: Scholarship for 2017 SCRUBS Camp at Saint Paul College

Grant Number: RMM-2017-K12ED-03

Requester: Tracy Wilson, Interim Dean of STEM, Dean of Workforce Training

Project Timeline: May 30, 2017– May 29, 2018

Brief description of project:

SCRUBS Camp is a unique education program for underserved high school students interested in health care careers, providing exposure to careers in health care occupations including careers in regenerative medicine. The four-day summer camp provides practical experiences to help students determine their own level of interest in health care careers, improving the pathway to higher education in health care fields of study. In this way, the SCRUBS Camp meets a community need for diverse students.

The Friends of Saint Paul College Foundation (Foundation) utilized the grant investment of \$15,579 to provide financial assistance and transportation to 63 low-income high school students or students of color enrolled in 2017 SCRUBS Camp, exceeding the goal to serve 60% of attending participants. Financial assistance eliminated or greatly reduced the \$385 SCRUBS Camp registration fee for these students, making participation in camp possible including sessions on regenerative medicine. Funds also provided transportation to ensure that the low-income students are able to participate in the camp on each of the four-days of the camp program session.

Where did this project take place?

In partnership with HealthForce Minnesota, Saint Paul College's 2017 SCRUBS Camp took place at the Saint Paul College campus, located at 235 Marshall Avenue, Saint Paul, MN 55102. The program occurred between July 24 and July 27 of 2017.

People impacted by project and where they are from:

Of the 95 high school student participants in 2017 SCRUBS Camp, a total of 48 students received scholarship awards. Of the scholarship recipients, 40 received full scholarships (attending at no cost to the families).

Demographic data shows a highly diverse group of program participants receiving scholarships. Over 66% were students of color and/or were from low-income households. Scholarship recipients were enrolled in the program through 43 local high schools and 100% were entering 9th through 12th grade in the fall 2017. There were 21 male students and 74 female students.

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?)

The SCRUBS Camp student survey results show how the program improved interest in health care occupations.

Student Survey Results:

- 90% of participants agreed that they will go think more seriously about going to college
- 92% of participants agreed they could see themselves 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 The 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.

Student responses from the closing camp evaluations included:

“Scrubs Camp helped me to explore specifics of careers in the medical field”

“I liked Stem Cells and Regenerative Medicine the best!”

“This camp showed me that a future in medicine is within my reach.”

“I liked experiencing the college life and taking the stem cells and A&P The Body class.”

Campers attended 8 sessions specifically related to regenerative Medicine. Here is a description of a few:

Stem Cells and Regenerative Medicine

The most targeted session was led by Dr Randy Daughters. The course catalog stated: Learn about the future of medicine – regenerative medicine that is! Regenerative medicine includes the possibility of growing tissues and organs in the laboratory and safely implanting them when the body cannot heal itself. Join faculty from Macalester College as they have you explore the “world of stem cells.”

MLT - Diagnostic Detectives – Medical Laboratory Science Careers – Phlebotomy and Hematology

The clinical laboratory is an exciting place where laboratory practitioners’ work together with other health care professionals to collect and analyze patient samples and provide important information needed to diagnose illness. Some of the people who work in the lab include the Phlebotomists who collect blood samples from patients and the Associate degree Medical Laboratory Technician or Bachelor’s degree Medical Laboratory Scientist whose main roles are to perform testing on the samples collected by the Phlebotomist. There are Masters and Doctorate level Medical Laboratory personnel working on administrative, education, and patient care tasks as well as a Medical Doctor known as a Pathologist who works exclusively in the lab and performs tasks like the examination of tissue biopsies collected during surgery or full autopsies. In this Diagnostic Detectives activity students have the opportunity to be a Phlebotomist and use practice arms to collect “blood” samples. Students were also be able to try out the Medical Laboratory Technician or Scientist role by testing blood samples for hemoglobin and looking at blood cells under the microscope to detect abnormalities that can indicate disease.

A & P: The Body

The human body is often called, “The Incredible Human Machine”. To find out why, come explore our internal anatomy via dissecting some of the organ systems on a representative mammal (fetal pig). Also, explore the physiology of *one* of our organ systems, the Cardiovascular System, by listening to your own heart sounds and recording your own electrocardiogram (ECG). In doing so, you’ll learn how the heart works. You’ll also learn how to take blood pressure, and what the numbers mean.

The Placebo Effect

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.

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 \$15,579 grant award on the 2017 SCRUBS Camp program. These funds were allocated as planned, shown below in the financial report.

Financial Report: Friends of Saint Paul College Saint Paul College SCRUBS Camp 2017

| Revenue | Budgeted | Actual |
|---|-----------------|-----------------|
| Institutional Giving - Regenerative Medicine Minnesota Grant | \$15,579 | \$15,579 |
| Program Fees | \$19,895 | \$18,495 |
| Institutional Giving - HealthForce Minnesota and other institutional donors | \$32,727 | \$26,493 |
| TOTAL REVENUE | \$68,201 | \$60,567 |
| | | |
| Expense | | |
| Staff Salaries (Full and Part Time) | \$32,791 | \$30,791 |
| Program Food | \$6,844 | \$4,960 |
| Program Supplies | \$9,339 | \$7,945 |
| Transportation (bus passes and bus rentals) | \$1,130 | \$595 |
| Indirect Expense | \$18,053 | \$16,276 |
| TOTAL EXPENSE | \$68,201 | \$60,567 |
| | | |
| Net Income | (\$0) | \$0 |

Of the total expenses, grant funding of \$15,579 from Regenerative Medicine Minnesota was used for Regenerative Medicine Program Session Supplies and Staff for the Regenerative Medicine Program Sessions.

The 2017 Saint Paul College Scrubs Camp Video can be viewed at:
<https://drive.google.com/file/d/0B870orBHNoW4bTRtWFFkUmhwTHc/view?ts=597fc408>

2017 Saint Paul College Scrubs in photos:

