

sex and gender variance. The visual arts can provide a familiar ground of understanding between teachers and learners to transform such preconceptions.

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**A Flexible and Transformational Approach for Learning Research and Communication Skills: The Center for Research Education and Science Communications Opportunities (CRESCO) of the Title V Cooperative Project between the University of Puerto Rico Medical Sciences Campus and the Universidad Central del Caribe (Title V Coop)**

Efrain Flores-Rivera<sup>1</sup>, Mildred Rivera-Vazquez<sup>2</sup>, Lizbelle De Jesús-Ojeda<sup>3</sup>, Ruben Garcia-Garcia<sup>4</sup>, Jose R. Moscoso-Alvarez<sup>5</sup>, Margarita Irizarry-Ramirez<sup>3</sup>, Elvis Santiago-Rodriguez<sup>6</sup>, Jose R. Ubieta-Santiago<sup>1</sup> and Rodolfo Navarro-Figueroa<sup>4</sup>

<sup>1</sup>Conrado F. Asenjo Library, Deanship for Academic Affairs, University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico, <sup>2</sup>Arturo Carriñan Pacheco Library, Universidad Central del Caribe, Bayamon, Puerto Rico, <sup>3</sup>Department of Graduate Programs, School of Health Professions, University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico, <sup>4</sup>Title V Project, Deanship for Academic Affairs, University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico, <sup>5</sup>Deanship for Health Sciences and Technology, Universidad Central del Caribe, Bayamon, Puerto Rico and <sup>6</sup>Department of Surgery, School of Medicine, University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico

**OBJECTIVES/GOALS:** The Title V Coop developed CRESCO, a physical and virtual space in the libraries of the two cooperating institutions. Adopting a flexible and transformational approach, it offers services to support the development of research and information skills of undergraduate students and faculty who receive clinical-translational research (CTR) training. **METHODS/STUDY POPULATION:** Since 2016, CRESCO has been staffed by a multidisciplinary team composed of three librarians, a statistician, an instructional designer, and an IT specialist. The physical facilities of the two libraries were remodeled and equipped, and a central portal was created to provide services and access to resources on a 7/24 basis. Online tutorials, workshops, and mentoring services have been offered that address topics in statistics, literature search, plagiarism, and the use of several research software. Services statistics are collected, and a questionnaire is administered to evaluate the workshops. **RESULTS/ANTICIPATED RESULTS:** The main results include 12 online tutorials created in CTR areas and available in the CRESCO hub portal; 14,660 mentoring/consultations offered in statistics, the use of research-related software, and the search for scientific literature search; and 6 online workshops created in CTR areas, with 463 attendees. When evaluating online workshops, participants considered that their acquired learning was high or extremely high on the following topics: use of Intellectus Statistics (88%, n = 96); selection of statistical tests (81%, n = 92); use of Turnitin (85%, n = 76); literature search (91%, n = 58); and citations and references in Mendeley (90%, n = 67). **DISCUSSION/SIGNIFICANCE:** These results suggest that the flexible, multidisciplinary, and transformational approach of CRESCO has been successful in helping undergraduate students and faculty develop the skills necessary to conduct CTR projects.

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**Mothers Leading Science: A program to diversify and develop the research workforce**

Michelle Lamere<sup>1</sup>, Sara Rhode<sup>2</sup>, Jayne Fulkerson<sup>1</sup>, David Ingbar<sup>1</sup> and Allyson Hart<sup>3</sup>

<sup>1</sup>University of Minnesota, <sup>2</sup>Independent Evaluator and <sup>3</sup>University of Minnesota and Hennepin Healthcare

**OBJECTIVES/GOALS:** The purpose of this group is to foster professional and personal growth as leaders, provide peer mentoring, integrate the roles of scientist, woman, and mother, and build a self-sustaining network of peers for ongoing support throughout their careers in an academic setting. **METHODS/STUDY POPULATION:** - Study population: 12 Health sciences research faculty (50% protected research time); identify as female; mother of school-age and/or younger children **Methods:** Year-long program; including a 2-day retreat based on Brene Brown's Dare to Lead **RESULTS/ANTICIPATED RESULTS:** - Despite the pandemic, 100% of participants continued in the program over the one-year duration and met the attendance requirement of 75% - Screening for burnout was effective - facilitator was able to intervene when severe burnout was noted.

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**Transforming the pipeline towards independence in Clinical and Translational Research (CTR) through opportunities in research environments for underrepresented health professions faculty and students: The Title V Cooperative Project between University Puerto Rico Medical Sciences Campus and Universidad Central del Caribe (Title V Coop)**

Margarita Irizarry-Ramirez<sup>1</sup>, Elaine Ruiz-Izcoa<sup>2</sup>, José Rafael Moscoso-Álvarez<sup>2</sup> and Rubén García García<sup>1</sup>

<sup>1</sup>University of Puerto Rico, Medical Sciences Campus and <sup>2</sup>Universidad Central del Caribe

**OBJECTIVES/GOALS:** Diversity and interdisciplinarity are required for successful and transformational CTR. The Title V Coop developed a training curriculum for underrepresented in CTR health professions faculty and students, successfully integrating them in CTR teams. The curriculum exposed students to theory and then a practicum. **METHODS/STUDY POPULATION:** The curriculum and practicum included basic aspects of training in research including responsible conduct of research and the design of a proposal. The practicum focused on the organizing of a research team identified as a Clinical and Translational Mentoring Team (CTMT) and the implementation of the proposed project. Emphasis was placed on the importance of the mentor-mentee relationship, including peer mentoring. Participants were recruited from across all post-secondary institutions in Puerto Rico emphasizing the participation of faculty (UgF) and students (UgS) from undergraduate programs in health professions and the participation of graduate students (GS) as peer mentors. Research mentors for each of the CTMTs were selected from faculty members that are established researchers. **RESULTS/ANTICIPATED RESULTS:** Twenty-seven (27) proposals from the CTMTs were approved. A total of one hundred and eight (108) participants were or are still engaged in the proposed research. Thirty-four faculty (34) members participated as mentors and three (3) peer reviewed publications have been done. Health professions and science fields represented by the participants include: Nursing, radiology technician, audiologist, medical students, basic science in biology or chemistry, public health and industrial