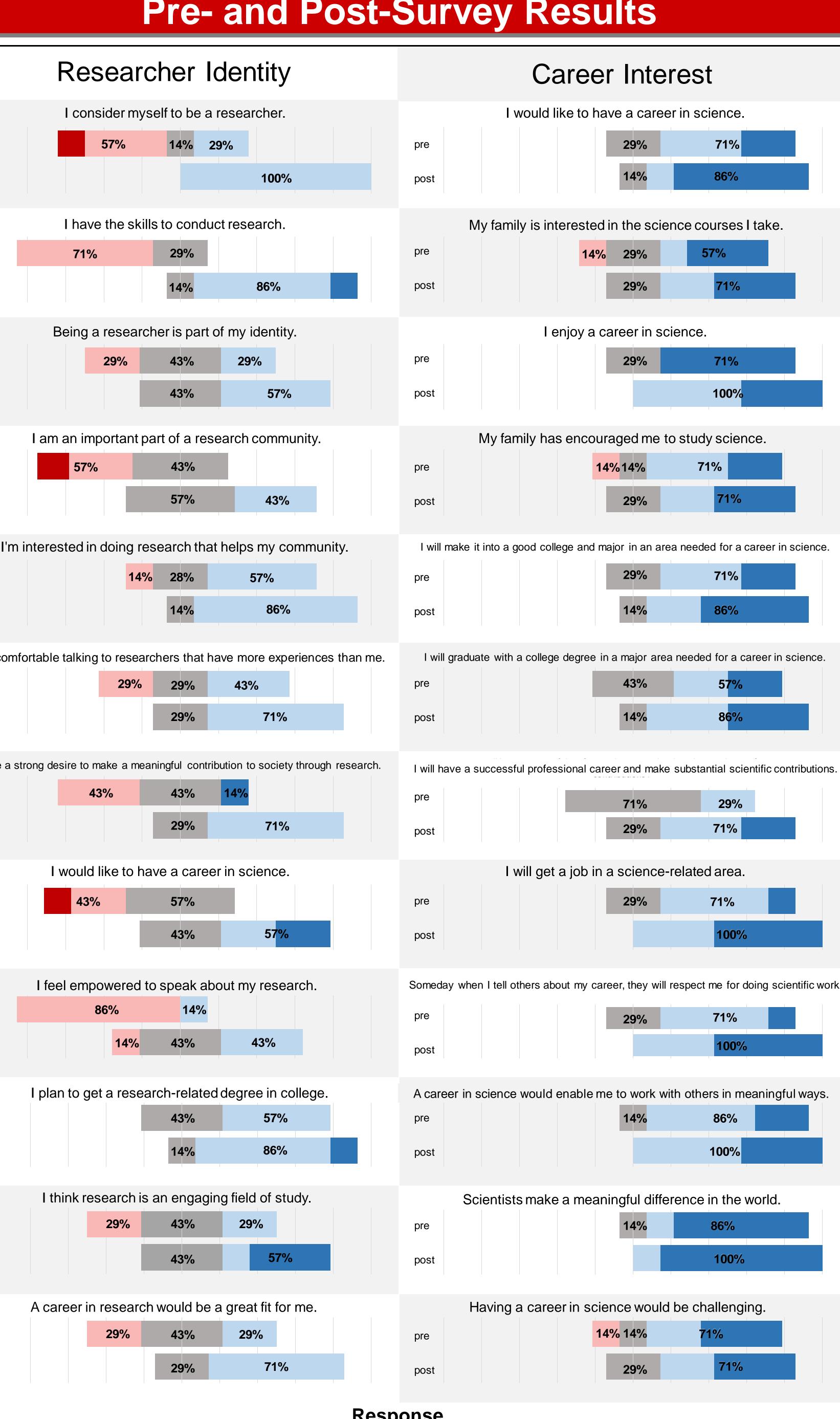
UNIVERSITY of MARYLAND MARLENE AND STEWART GREENEBAUM

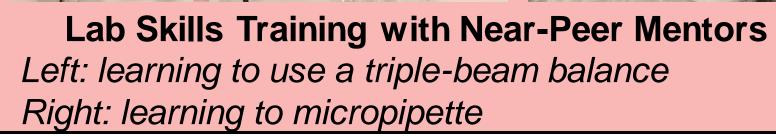
Anna Pudder¹, Linda Horn², Cara Felter², Bret Hassel¹, Elizabeth A Parker^{1,2} ¹ Marlene and Stewart Greenebaum Comprehensive Cancer Center; ² Dept of Physical Therapy and Rehabilitation Science, University of Maryland School of Medicine, University of Maryland Baltimore

Currentiation and sub set in the summer coinciding with You how the subset over 5-weeks in the summer coinciding with You how the subset over 5-weeks in the summer coinciding with You how the subset operand in the Balamore area. Scholars received 5 hours of day instruction led by yarious LMB faculty members and staff, and near-peer mentors. Scholars 1 and post-surveys assessed research interest and sense of belonging. Pro- and post-surveys assessed research interest and sense of belonging. Pro- and post-surveys assessed research interest and sense of belonging. Scholars 1 college junits, You 2023 (1): 2024 (3): 2025 (3): Mentors 6 total, all completed the summer program 5 formals, 1 male 1 college junits, 4 college seniors, 1 masters student Partners and Baltimer Professional Schools, Instituts, Conters & Offices School of Marging Baltimer Professional Schools, Instituts for Genome Science Three deviations Science School of Marging Baltimer Professional Schools, Instituts for Genome Science Three deviations Science School of Marging Baltimer Professional Schools, Instituts for Genome Science Three deviations Scien	Background and Methods	Pre- and Pos	t-Survey Res
 and graduate programs in the Baltimore area. Scholars received 5 hours of daily instruction led by various UMB faculty members and staff, and near-peer mentors. Pre- and post-surveys assessed research interest and sense of belonging. Pre- and post-surveys assessed research interest and sense of belonging. Pre- and post-surveys assessed research interest and sense of belonging. Pre- and post-surveys assessed research interest and sense of belonging. Pre- and post-surveys assessed research interest and sense of belonging. Scholars 8 enrolled; 7 completed the summer program 4 males; 3 females Graduate for Mariana (Galaciana) 6 fotal, all completed the summer program 5 female, 1 maie 1 college junior, 4 college seniors, 1 masters student Department of Naurology School of Modian School of Modian	 curriculum introducing basic, clinical and translational research and hands on training for rising 11th- & 12th-graders in Baltimore City. Implemented over 5-weeks in the summer coinciding with YouthWorks. 	pre 57% 14% 29%	
 Pre- and post-surveys assessed research interest and sense of belonging. Participant Characteristics Scholars Scholars Being a tesancheris part of midently. Team on imponent part of a tesancheris community. Team on imponent part of the tesa part of my community. Team on imponent part of a tesancheris community. Team on imponent part of a tesancheris community. Team on imponent part of my community. Team on imponent part of tesancheris community. Team on imponent part of the tesancheris community. Team on imponent part of tesancheris community. Team on imponent part of the tesancheris community. Team on imponent part of tesancheris community. Team on imponent part of tesancheris community.	 and graduate programs in the Baltimore area. Scholars received 5 hours of daily instruction led by various UMB faculty members and staff, and near-peer 	pre 71% 29%	
Scholars Completed the summer program Completed t	 Pre- and post-surveys assessed research interest and sense of belonging. 	pre 29% 43% 29%	
Partners and Funders University of Maryland Baltimore Professional Schools, Institutes, Centers & Office • School of Mursing • School of Mursing • School of Pharmacy • School of Social Work • General Clinical Research • Institute for Genome Sciences • University of Maryland Greenebaum Comprehensive Cancer Center • Department of Neurobiology and Rehabilitation Science • Department of Physical Therapy and Rehabilitation Science • VM Maryland Health Care System Batimore Geriatric Research, Education, and Clinical Center (GRECC) • University of Maryland, College Park • Loyola University • VMaryland Health Care System Batimore Geriatric Research, Education, and Clinical Center (GRECC) • University of Maryland, Baltimore Cunty • University of Maryland, Baltimore Cunty • University of Maryland, Baltimore Cunty • University of Maryland, Baltimore Cunty • University of Maryland, Baltimore	 8 enrolled; 7 completed the summer program 4 males; 3 females Graduation Year: 2023 (1); 2024 (3); 2025 (3) Average attendance was 87% (22/25 total days) Mentors 6 total, all completed the summer program 5 female, 1 male	pre 57% 43% post 57% 43% I'm interested in doing research that helps my community. pre 14% 28% post 14% 86% I am comfortable talking to researchers that have more experiences than researchers that have more experiences that have more	pre post I will make it into a good college and pre post ne. I will graduate with a college degree
 Institute for Genome Sciences University of Maryland Greenebaum Comprehensive Cancer Center Human Research Protections Office Human Research Protections Office Human Research Protections Office Human Resource Services Health Sciences and Human Services Library Office of Emergency Management University of Maryland, College Park University of Maryland, College Park University of Maryland, College Park Loyola University Stevenson University University of Maryland, Baltimore County Teel empowered to speak about my research. I feel empowered to speak about my research. I post I think research is an engaging field of study. I think research is an engaging field of study. 	University of Maryland Baltimore Professional Schools, Institutes, Centers & Offices• School of Medicine• Department of Neurology• School of Nursing• Department of Neurobiology• School of Pharmacy• UMB CURE Scholars Program	I have a strong desire to make a meaningful contribution to society through research pre 43% 43% 14% post 29% 71%	ch. I will have a successful professional c
 VA Maryland Health Care System Baltimore Geriatric Research, Education, and Clinical Center (GRECC) Towson University Stevenson University University of Maryland, Baltimore County I think research is an engaging field of study. 	 Institute for Genome Sciences University of Maryland Greenebaum Comprehensive Cancer Center Department of Physical Therapy and Rehabilitation Science Department of Microbiology and Center (GCRC) Human Research Protections Office Human Resource Services Health Sciences and Human Services Library Office of Emergency 	post 43% 57% I feel empowered to speak about my research. pre 86% 14%	post Image: state of the st
	 VA Maryland Health Care System Baltimore Geriatric Research, Education, and Clinical Center (GRECC) Towson University University of Maryland, College Park Loyola University Stevenson University University of Maryland, Baltimore 	pre 43% 57% 14% 86%	post
 But including: Science Education Partnership Award (SEPA) award from the National Institute of General Medical Sciences, the National Institutes of Health (NIH) under Award Numbers R25GM129875; 3R25GM129875-04S1 Baltimore Summer Funding Collaborative 	 County Business and Professional Community Beth Birago (Learn AHA CPR, First Aid, ACLS, & PALS) Thank you to our Funders, including: Science Education Partnership Award (SEPA) award from the National Institute of General Medical Sciences, the National Institutes of Health (NIH) under Award Numbers R25GM129875; 3R25GM129875-04S1 Baltimore Summer Funding Collaborative 	pre 29% 43% 29% post 57% A career in research would be a great fit for me. pre 29% 43% 29%	post Having a career in so
 University of Maryland School of Medicine Marlene and Stewart Greenebaum Cancer Center The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH. Strongly Disagree Disagree Uncertain 	Stewart Greenebaum Cancer Center The content is solely the responsibility of the authors and does not necessarily		·

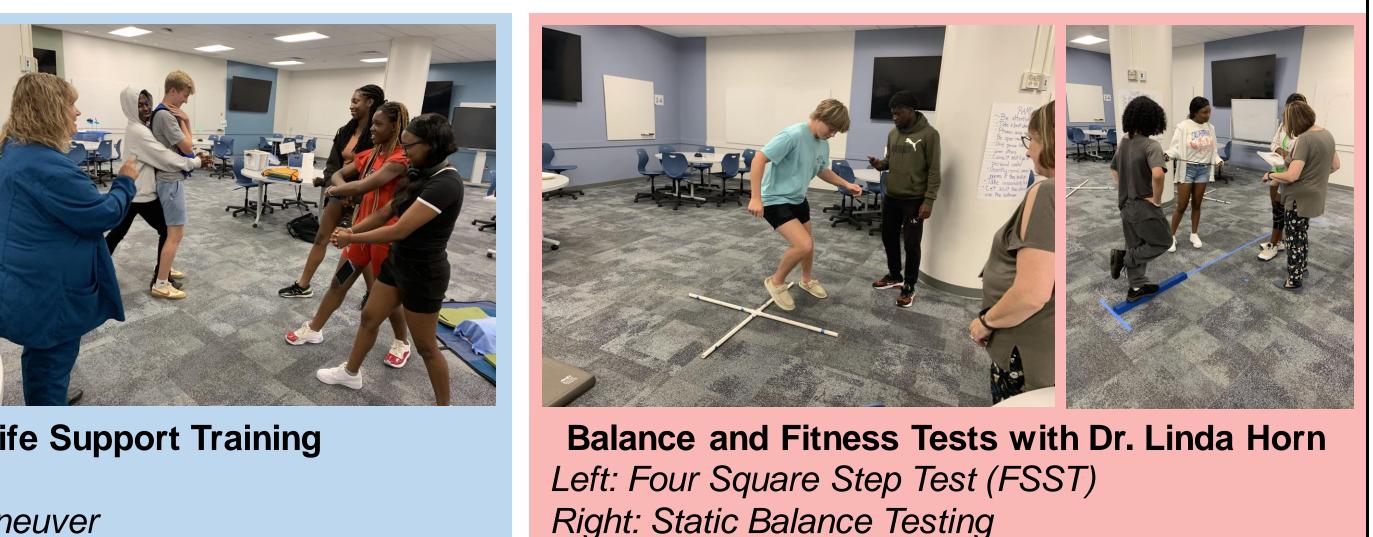
UMB RAMP: UMB Research And Mentoring Program to develop skills and promote interest in STEM fields through hands-on exposure to academic research among West Baltimore Youth











Basic Life Support Training Left: CPR/AED Right: Heimlich Maneuver



Independent Research Projects Presentations Left: group photo Right: scholar presenting her research project

"RAMP was an amazing opportunity for me to explore the world of research. I have learned so much about myself and those around me who are able to make a difference through research."

Strongly Agree

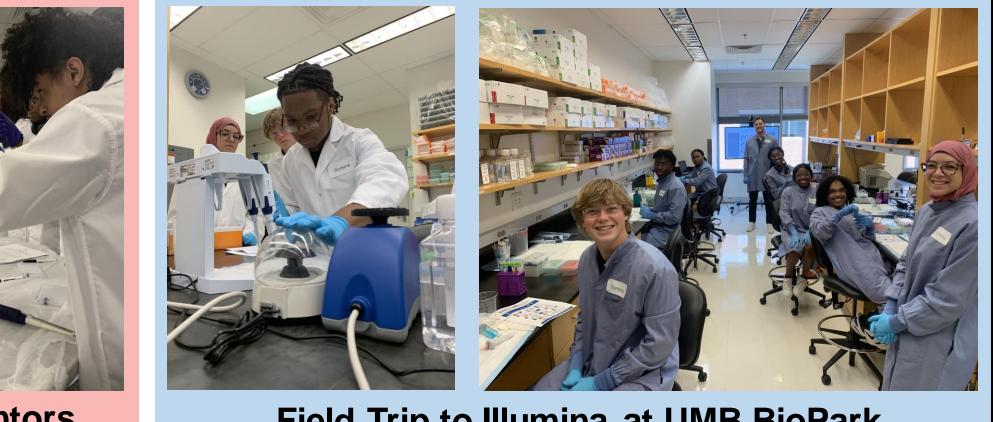
- Scholar



SCIENCE EDUCATION

Summer Highlights

Laboratory Skills



Field Trip to Illumina at UMB BioPark Left: preparing a sample for the DNA sequencer Right: micropipetting competition

Clinical Skills

Professional Skills

Student Summer Research Forum Left: group photo Right: scholars practicing networking skills

"Being a RAMP mentor really solidified for me that I want a career in research."

- Mentor

"It was a great opportunity to learn how to research information for things you want to be in life and it has given me great opportunities for careers and jobs."

- Scholar