



RUTGERS HEALTH

School of Health Professions

**15th Annual
Student Research & Scholarship Symposium
Program**

9:00 a.m. - 9:15 a.m.	<p>Welcome to the 15th Annual SHP Research and Scholarship Symposium</p> <p>Antonina Mitrofanova, Ph.D. Associate Dean for Research, Rutgers School of Health Professions</p> <p>Jeffrey DiGiovanni, PhD Dean, Rutgers School of Health Professions</p> <p><u>Master of Ceremonies (MC)</u> Suchismita Ray, PhD Associate Professor</p>
9:15 a.m. – 10:30 a.m.	<p>Student Presentations (10-minute presentations + 5-minute Q&A)</p> <p>Moderator: Shristi Rawal, PhD</p> <p>1. <u>9:15am-9:25am + 5-minute Q&A</u> <u>Authors and Co-Authors:</u> Janaki Ramya Namburu, Anoushka Basu, Gbenga Dairo, Alvin T. Kho, PhD, Kelan G. Tantisira, MD, Scott T. Weiss, MD, Dawn L. DeMeo, MD, Priyadarshini Kachroo, PhD <u>Title:</u> Integrated DNA-methylome and Transcriptome Signatures Identify Disrupted Developmental Pathways by Prenatal Smoke Exposure</p> <p>2. <u>9:30am-9:40am + 5-minute Q&A</u> <u>Authors and Co-Authors:</u> Sushant Singh, Krista Rogers, Cinthya Marrero, Carolyn Bazan, PhD, Weili Lu, PhD, Yuane Jia, PhD, Alexandra Bauer, PhD <u>Title:</u> EXPLORING THE INTERRELATIONSHIPS AMONG TRAUMA, RELIGIOUS/ SPIRITUAL STRUGGLES, AND DEPRESSION AMONG EMERGING AND YOUNG ADULTS</p>



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	<p>3. <u>9:45am-9:55am + 5-minute Q&A</u> <u>Authors and Co-Authors:</u> Fares Al-Shargie, Michael Glassen, John DeLuca, Soha Saleh, PhD <u>Title:</u> Brain Connectivity During Walking and Obstacle Avoidance in Persons with Multiple Sclerosis and Healthy Controls: Preliminary EEG Study</p> <p>4. <u>10:00am- 10:10am + 5-minute Q&A</u> <u>Authors and Co-Authors:</u> Uran Maimekov, Mehdi Nosrati, Ahmed Mahmoud, Mainak Mustafi, Michael W. Craige, Frederick Coffman, PhD, J. Scott Parrott, PhD, Carol Lutz, Antonina Mitrofanova, PhD <u>Title:</u> Genome-wide comprehensive analysis of mRNA alternative splicing identifies a signature of progression in colorectal adenocarcinoma</p> <p>5. <u>10:15am – 10:25am + 5-minute Q&A</u> <u>Authors and Co-Authors:</u> Kayla Clarke, RD; Julianna Grasso, RD; Rena Zelig, DCN RDN CDCES CSG; Rebecca Brody, PhD RD LD CNSC; J. Scott Parrott PhD <u>Title:</u> Bridging the Gap: How Milk Oligosaccharide-Supplemented Formula Supports Infant Gut Health Similar To Breast Milk; A Review of the Evidence and Meta-Analysis</p>
10:30am – 10:35am	Presentation Vote and Break
10:35am – 11:30am	<p>Student Poster Session 1</p> <p>Moderator: Laura Byham-Gray, PhD (3-minute presentations/ 2-minute Q&A from each presenter) Session 1: 10:35am – 11:30am - 11 posters</p>
11:30am – 12:30pm	Poster Vote and Lunch Break
12:30pm – 1:25pm	<p>Student Poster Session 2</p> <p>Moderator: Judy Deutsch, PhD (3-minute presentations/ 2-minute Q&A from each presenter) Session 2: 12:30pm – 1:25pm - 11 posters</p>
1:25pm – 1:30pm	Poster Vote and Break
1:30pm – 2:25pm	<p>Student Poster Session 3</p> <p>Moderator: Priyadarshini Kachroo, PhD</p>



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	(3-minute presentations/ 2-minute Q&A from each presenter) Session 3: 1:30pm – 2:25pm - 11 posters
2:25pm – 2:30pm	Poster Vote and Break
2:30pm – 3:30pm	Student Poster Session 4 Moderator: Soha Saleh, PhD (3-minute presentations/ 2-minute Q&A from each presenter) Session 4: 2:30pm – 3:30pm - 12 posters
3:30 pm – 3:45pm	Poster Vote and Break
3:45pm – 4:45pm	Faculty Presentation 2024 Excellence in Research Recipient <u>Presenter:</u> Nima Toosizadeh, PhD Associate Professor Department of Rehabilitation and Movement Sciences <u>Presentation Title:</u> Method and system to identify frailty in older adults
4:45pm – 5:00pm	Awards and Closing Remarks



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Student Poster Session Information

Session 1: 10:35am – 11:30am

Moderator: Laura Byham-Gray, PhD

#	Time	Authors and Co-Authors	Poster Title
1	10:35 a.m. -10:40 a.m.	Marina Djeljevic, Krista Rogers, Yuan Yao, Katrina Heller, Chandni Suresh, Chloe Chong, Amy Banko, Brittany Stone, Giovanna Giacobbe, Sydney Tulloch, William Waynor, Phil Yanos, Weili Lu	Preliminary Insight for Integrated Cognitive Behavior Treatment (CBT) and Supported Education (SEd) Initiative for Addressing Educational Challenges among Post-Secondary Education (PSE) Students with PTSD
2	10:40 a.m. -10:45 a.m.	Smitha Abraham, Rebecca Brody	Utilization of adjuvant protein therapy for malnourished adults on maintenance hemodialysis improves nutritional status: A case study analysis.
3	10:45 a.m. -10:50 a.m.	Holly Gorin, Michael Glassen, Qinyin Qiu, Jigna Patel, Alma Merians, Sergei V. Adamovich, Gerard Fluet	Effect of game speed on engagement in healthy subjects and subjects post-stroke as measured by pupil diameter, respiratory rate, and heart rate
4	10:50 a.m. -10:55 a.m.	Jessica Kyee, Ryan White	The Diagnostic Utility of Lipoprotein(a) in Routine
5	10:55 a.m. -11:00 a.m.	Giuliana Anders, Derek Malenczak	Use of Digital Storytelling as a Constructivist Learning Principle to Improve Student Engagement in an Undergraduate Asynchronous Online Course
6	11:00 a.m. -11:05 a.m.	Riddhi Vyas, Reshma Raju, Tanya Agarwal, Mouktika Potluri, Shankar Srinivasan	Climate and Cardiovascular Outcomes: Analyzing Environmental Impacts on Mortality in New Jersey
7	11:05 a.m. -11:10 a.m.	Hayley Davies, Sheryl Geisler	The Effect of Acupuncture on Pregnancy Outcomes in Reproductive Medicine
8	11:10 a.m. -11:15 a.m.	Daryan Calles, Jena DeSalvo, Michael	For postmenopausal women, does whole body vibration exercise improve bone mineral



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		Lovero, Jaclyn Monaco, Lauren Muller, Eashani Patel, Beatrice Stadler, Anita Van Wingerden	density, functional mobility, and quality of life?
9	11:15 a.m. -11:20 a.m.	Tasha Luk, Janine Vailes, Erica Measday, Alexandra Fisk, Yuan Yao, Krista Klie, Zoe Geisser, John Beninato, Janice Oursler, Ni Gao, Weili Lu	Implementing Work-Related Soft-Skills (iCareer) Training Among High School Students with Disabilities
10	11:20 a.m. -11:25 a.m.	Marildo Mera, Keara McNair, Eileen Hoskin	Ergonomic Training Intervention for Dental Students to Reduce Musculoskeletal Disorders
11	11:25 a.m. -11:30 a.m.	Noah Reyes, Elizabeth Di Prospero	Exploration of potential GLP-1 RA use for reducing the risk of dementia in patients with T2DM

Session 2: 12:30pm – 1:25pm

Moderator: Judy Deutsch, PhD

#	Time	Authors and Co-Authors	Poster Title
1	12:30 p.m. -12:35 p.m.	Srilakshmi H Ponukumati, Barbara Tafuto, Rahul Mittal	Impact of socioeconomic factors on pediatric atopic dermatitis population – A literature review
2	12:35 p.m. -12:40 p.m.	Sasha Feinstein, Brendan Pyfer, Bonnie Wang, Jennifer Bridenbaugh, Rena Zelig, Patrice Paoletta, Jennifer Tomesko	Impact of Probiotic Supplementation on the Prevention of Clostridioides difficile Infection in Hospitalized Adults
3	12:40 p.m. -12:45 p.m.	Tasha Luk, Zoe Geisser, Janice Oursler, Weili Lu, Yuan Yo, Akshika Patel Erin Hausser, Ritu Sharma, Sam Caruthers	Psychometric Properties of Workplace Feedback Skills Checklist
4	12:45 p.m. -12:50 p.m.	Cynthia Puleo, Jamie	The Effect of Plant-Based Diets on



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		Lands, Rena Zelig, Patrice Paolella, Jennifer Bridenbaugh, Jennifer Tomesko	Cardiometabolic Risk Factors in African American Adults
5	12:50 p.m. -12:55 p.m.	Jemima Baskar, Zhaomeng Niu	Perceptions and Barriers regarding Mental Health Service Utilization in the AANHPI Community
6	12:55 p.m. -1:00 p.m.	Jennifer Gutterman, Chirag Motwani, Michael Glassen, Alma Merians, Karen Nolan, Soha Saleh	White Matter Integrity as a Biomarker of Gait Recovery in Patients Post-Stroke
7	1:00 p.m. -1:05 p.m.	Carolyn Bazan, Weili Lu, Krista Rogers, Cinthya Marrero, Sushant Singh, Alexandra Bauer	Trauma, Spiritual struggles, and Substance Use in Young Adults: Exploring the Connections
8	1:05 p.m. -1:10 p.m.	Elizabeth Hartwig, Jennifer Joseph	The Effectiveness of Platelet-Rich Plasma (PRP) Injections in Patients with Chronic Low Back Pain
9	1:10 p.m. -1:15 p.m.	Riddhi Vyas, Tanya Agarwal, Krishna Daxesh Parekh, Karishma Daxesh Parekh, Ayushi Mehulkumar Naik, Shankar Srinivasan	A sequential logistic regression analysis: Impact of Low-Carbohydrate Diets on Developing Type 2 Diabetes
10	1:15 p.m. -1:20 p.m.	Kayla K. Scherf, Rebecca Brody	Peritoneal Dialysis and Intradialytic Parenteral Nutrition: A Case Study
11	1:20 p.m. -1:25 p.m.	Stephanie Tande, Christina Kang-Yi, Chandni Suresh	Shared Decision Making in Perinatal Mental Health Care Delivery: Synthesis of Evidence



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Session 3: 1:30pm – 2:25pm

Moderator: Priyadarshini Kachroo, PhD

#	Time	Authors and Co-Authors	Poster Title
1	1:30 p.m. – 1:35 p.m.	Ryan Bochinski, Madelina Bucci, Gage Demelo, Anthony Flores, Mallika Negi, Saren Nonoyama, Michael Peralta, Mary Rallo, Priyanka Shah, Judith E. Deutsch	For persons with Parkinson's Disease, does yoga improve motor and affective outcomes?
2	1:35 p.m. -1:40 p.m.	Zhaomeng Niu, Karen Dhami	Exploring AR Technology Adoption for Skin Cancer Prevention
3	1:40 p.m. -1:45 p.m.	Yoshiko Roth-Hidalgo, Yixian Shi, Joshua Spitz, Rena Zelig, Patrice Paoella, Jennifer Bridenbaugh	The Synergistic Effect of Statins and Probiotics on Lipid Profile and Gut Microbiome
4	1:45 p.m. -1:50 p.m.	Marina Djeljevic, Alexandra Fisk, Zoe Geisser, Jessica Dobbs, Luana Meira, Yuan Yao, Janice Oursler, Weili Lu, Allison Biede, Sydney Carney, Rachel Karan, Michael Ward, Cleo Zifovski, Zachary Schmidt, Amanda Gialanella, Jaclyn Hartwig	Psychometric Evaluation of the Help-Seeking Knowledge Questionnaire in Workplace Contexts for Adults with Disabilities
5	1:50 p.m. -1:55 p.m.	Evelyn Garcia, Claire O'Connell, Elizabeth DiProspero	Are corticosteroids alone or in combination with AVT superior in improving the recovery period of Bell's Palsy compared to no treatment (placebo)?
6	1:55 p.m. -2:00 p.m.	Jincy Chacko, Kimon Stathakos, Doran Kim, Kathleen Mazza, Yuane Jia, Michael Diefenbach, Lorena	Retrospective Insights on Chatbot Outreach: Identifying Strategies to Address Value-Based Care Gaps



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7	2:00 p.m. -2:05 p.m.	Krista Rogers, Tasha Luk, Yuan Yao, Gabrielle Drake, Kim T. Mueser, Yuane Jia, Weili Lu	Untangling Trauma: Exploring the Rate of Complex Post-Traumatic Stress Disorder (CPTSD) and its Correlates in Clients Living with Serious Mental Health Conditions and Co-morbid PTSD
8	2:05 p.m. -2:10 p.m.	Ajith Kumar Kannan, Rahul Mittal, Rajnish Mohindroo, Chakri Movva, Lai Zhang, Salma Reehana, Shankar Srinivasan	Implementing Accurx for Total Triage: Enhancing Care Navigation and Patient Experience
9	2:10 p.m. -2:15 p.m.	Megan Gasnick, Reena Nagendran, Emily Bill, Jennifer Bridenbaugh, Rena Zelig, Jennifer Tomesko	The Effect of Maternal Choline Supplementation on Infant and Childhood Cognition
10	2:15 p.m. -2:20 p.m.	Michael Glassen, Jigna Patel, Qinyin Qiu, Gerard Fluet, Alma Merians, Soha Saleh, Sergei Adamovich	Increased EEG-based connectivity within the affected secondary motor areas is linked to better functional recovery four months after a stroke.
11	2:20 p.m. -2:25 p.m.	Olivia Ostunio, Jaclyn Soter, James S. Parrott, Rebecca Brody, Rena Zelig	The Effects of Hydroxymethylbutyrate on Muscle Thickness and Strength in Critically Ill Patients – A Review of the Evidence and Meta-Analysis

Session 4: 2:30pm – 3:30pm

Moderator: Soha Saleh, PhD

#	Time	Authors and Co-Authors	Poster Title
1	2:30 p.m. -2:35 p.m.	Danielle Yang, Dipali Yeh	Decreasing Intracranial Pressure in Traumatic Brain Injury Patients: Hypertonic Saline vs Lactated Ringers
2	2:35 p.m. -2:40 p.m.	William Waynor, Emilie Banz, Amy Banko, Pamela Rothpeltz-Puglia,	Developing Professional Identity in Undergraduate Psychiatric Rehabilitation Students



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		Peter Basto, Stephanie Michelle Greco	
3	2:40 p.m. -2:45 p.m.	Dinesh Mital, Niharika Pathak	Enhancing Dental Ergonomics through Clinical Decision Support Systems
4	2:45 p.m. -2:50 p.m.	Yuan Yao, Krista Rogers, Zoe Geisser, Ryan Cai, Yuane Jia, Amanda Siriam, Weili Lu, Carolyn Bazan	Empirical Validation of a Trauma-Informed Career Counseling Model
5	2:50 p.m. -2:55 p.m.	Weng Loon Chin, Amy Tuller, James Scott Parrott, Rena Zelig, Rebecca Brody	The Impact of FODMAP Reintroduction on Symptom Severity and Quality of Life in Adults with Irritable Bowel Syndrome: A Review of the Evidence and Meta-Analysis
6	2:55 p.m. -3:00 p.m.	Bilal Husain, Suchismita Ray	Evaluating the impact of diabetes and co-occurring substance use disorder on length of hospital stay, hospital charges and emergency services utilization: a retrospective study
7	3:00 p.m. -3:05 p.m.	Sunny Choi, Claire O'Connell	Efficacy of Newly FDA-Approved Xanomeline and Trospium Chloride in the Treatment of Schizophrenia
8	3:05 p.m. -3:10 p.m.	Kylie Margerison, Alexandra Fisk, Zoe Geisser, Danielle Gary, Luana Meira, Janice Oursler, Weili Lu	A Scale to Measure Work-Related Soft Skills: Perceived Interview Preparedness Questionnaire & Its Psychometric Properties
9	3:10 p.m. -3:15 p.m.	Arly Gutierrez, Maya Burris, Kelly Ann Peña, Elizabeth Van Roten	Functional Video Game Use in Virtual Group Therapy for Spanish-Speaking Adults Post-Brain Injury: An IPP and Teach-Test-Assess Model
10	3:15 p.m. -3:20 p.m.	Obinna Onyedum, Rahul Mittal	Reviewing Ways to Improve Breast Cancer Screening Uptake for Women in Wolverhampton Southeast Population, United Kingdom (UK)
11	3:20 p.m. -3:25 p.m.	Crystal Socha, Anthony Zazzarino, Katie Christensen, Aubrey Daniels, Pamela Rothpletz-Puglia	Exploring the Experiences of Anti-Fatness Among Fat, Larger-Bodied, and Higher-Weight Clients in Counseling
12	3:25 p.m. -3:30 p.m.	Reilly Warren, Anna Parker, Rebecca Brody	Impact of Xphozah® on Phosphorus in an Adult Male on Hemodialysis