



**RUTGERS HEALTH**

**School of Health Professions**

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**16<sup>th</sup> Annual  
Student Research & Scholarship Symposium  
Program**

9:00 a.m. - 9:15 a.m.	<p><b>Welcome to the 16<sup>th</sup> Annual SHP Research and Scholarship Symposium</b></p> <p><u>SHP Leadership Addresses</u></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> Priyadarshini Kachroo, Ph.D., M.S. Assistant Professor, Department of Health Informatics</p>
9:15 a.m. – 10:30 a.m.	<p><b>Student Presentations (10-minute presentations + 5-minute Q&amp;A)</b></p> <p><b>Moderator: Laura Byham-Gray, PhD</b></p> <ol style="list-style-type: none"><li>1. <u>9:15am-9:25am + 5-minute Q&amp;A</u> <u>Authors and Co-Authors:</u> Tanya Agarwal, Janaki Ramya Namburu, Dr. Priyadarshini Kachroo <u>Title:</u> Integrated cardiometabolic and nutritional risk profiling identifies pregnancy loss as a marker of systemic metabolic vulnerability</li><li>2. <u>9:30am-9:40am + 5-minute Q&amp;A</u> <u>Authors and Co-Authors:</u> Carolina Carlsson, Gabriella Ramirez, Abigail Malbrough, David Schmell, Nina Longer, Amanda Plattenberger, Ni Gao, Weili Lu <u>Title:</u> School-Based Behavioral Health Intervention in Camden County: A Case Series</li></ol>



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	<p>3. <u>9:45am-9:55am + 5-minute Q&amp;A</u> <u>Authors and Co-Authors:</u> Mohamed Eltawil, Laura Byham-Gray, James Parrott, Yuane Jia, Neil Mistry, Suril Gohel <u>Title:</u> From Population to Person: Understanding Mortality Risk in Patients Receiving Hemodialysis Using Machine Learning and SHAP Analysis of the DOPPS Cohort</p> <p>4. <u>10:00am- 10:10am + 5-minute Q&amp;A</u> <u>Authors and Co-Authors:</u> Mateus Souza Silva, Leila Qadri, Neil Vijay, Jose Miranda, Jean-Francois Daneault <u>Title:</u> Movement Element Decomposition (MED) Package: A Unified Framework.</p> <p>5. <u>10:15am – 10:25am + 5-minute Q&amp;A</u> <u>Authors and Co-Authors:</u> Franchesca Zilinski, Mark Vorensky Nathan Wages <u>Title:</u> Understanding the Role of Perceived Self-Efficacy in Neuromuscular Function and Pain</p>
10:30am – 10:35am	<b>Presentation Vote and Break</b>
10:35am – 11:25am	<b>Student Poster Session 1</b>  <b>Moderator: Soha Saleh, PhD</b> (3-minute presentations/ 3-minute Q&A from each presenter) Session 1: 10:35am – 11:25am - 8 posters
11:25am – 11:30am	<b>Poster Vote and Break</b>
11:30am – 12:20pm	<b>Student Poster Session 2</b>  <b>Moderator: Nima Toosizadeh, PhD</b> (3-minute presentations/ 3-minute Q&A from each presenter) Session 2: 11:30am – 12:20pm – 8 posters
12:20 – 1:30pm	<b>Poster Vote and Lunch Break</b>
1:30pm – 2:25pm	<b>Student Poster Session 3</b>  <b>Moderator: Shristi Rawal, PhD</b> (3-minute presentations/ 3-minute Q&A from each presenter) Session 3: 1:30pm – 2:25pm - 9 posters
2:25pm – 2:30pm	<b>Poster Vote and Break</b>



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2:30pm – 3:18pm	<p style="text-align: center;"><b>Student Poster Session 4</b></p> <p><b>Moderator: Weili Lu, PhD</b> (3-minute presentations/ 3-minute Q&amp;A from each presenter) Session 4: 2:30pm – 3:18pm - 8 posters</p>
3:18 pm – 3:30pm	<p style="text-align: center;"><b>Poster Vote and Break</b></p>
3:30pm – 4:30pm	<p style="text-align: center;"><b>Faculty Presentation</b> <b>2025 Excellence in Research Recipient</b></p> <p><b><u>Presenter:</u> Suchismita Ray, PhD</b> <b><u>Title:</u> Opioid Addiction: The Underlying Mechanisms and Targeted Interventions</b></p>
4:30pm – 4:45pm	<p style="text-align: center;"><b>Awards and Closing Remarks</b></p>



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## Student Poster Session Information

**Session 1: 10:35am – 11:25am**

**Moderator: Soha Saleh**

#	Time	Authors and Co-Authors	Poster Title
1	10:35 a.m. -10:41 a.m.	Jemima Baskar, Jun Pei, Zhaomeng Niu	Exploring predictors of sun protection behaviors among Hispanics in the US
2	10:41 a.m. -10:47 a.m.	Carolina Carlsson, Abigail Malbrough, Krista Rogers, Melitta Oppenheim, Kim T. Mueser, Weili Lu	Untangling Trauma: Profiles of Complex PTSD in Serious Mental Health Conditions
3	10:47 a.m. -10:53 a.m.	Mary Kathryn Edwards, Rebecca Brody, Anna Parker	How Low Energy Availability Undermines Physiological Well-Being in Resistance Trained Adults: A Case Study
4	10:53 a.m. -10:59 a.m.	Emma Larson, Jean Baum, Dinesh Mital	Predicting Outcomes of Brittle Bone Disease Patients from Collagen Mutations
5	10:59 a.m. -11:05 a.m.	Sharon Marcus, Natalia Noce	AMPowerED - Understanding Rehabilitation Through the Lived Experiences of Individuals with Upper Extremity Amputation: Identifying Gaps in Occupational Therapy Education
6	11:05 a.m. -11:11 a.m.	Clover Hu, Rachel Seo, Katrina Heller, Krista Roger, Abigail Malbrough, Jennifer Herrera, Erica Measday, Kylie Margerison, Luana Meira, Amy Banko, Giovanna Giacobbe, Janice Oursler, Ni Gao, Weili Lu	Navigating Higher Education: Telehealth Transdiagnostic CBT and Supported Education for Post-Secondary Students with Mental Health Conditions
7	11:11 a.m. -11:17 a.m.	Jennifer Gordon, Rebecca Brody, Hamed Samavat, Mireille Hamdan, Alexander L. Colonna, Jason B. Young, Laura D. Byham-Gray	Prevalence and Predictors of L-Carnitine Deficiency in Critically Ill Adults: A Retrospective Analysis



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8	11:17 a.m. -11:23 a.m.	Victoria Nguyen, Barbara Tafuto, Scot Garg, Rahul Mittal	Machine Learning Prediction of ICU Outcomes in Atrial Fibrillation Patients: A Systematic Review
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## Session 2: 11:30am – 12:20pm

**Moderator: Nima Toosizadeh, PhD**

#	Time	Authors and Co-Authors	Poster Title
1	11:30 a.m. -11:36 a.m.	Abdullah Altammami, Dinesh Mital, Barbara Tafuto	Are Text-to-SQL Systems Ready for Clinical Use? A Systematic Review of Performance, Generalization, and Deployment Readiness
2	11:36 a.m. -11:42 a.m.	Glenn Brietzke, James Green, Hamed Samavat, Suril Gohel, Michaelann Hahn, Jean-Francois Daneault, Laura Byham-Gray	Risk factors of refeeding syndrome in critically ill adults
3	11:42 a.m. -11:48 a.m.	Carolina Carlsson, Melitta Oppenheim, Kim Mueser, Krista Rogers, Katrina Heller, Abigail Malbrough, Weili Lu	Do Psychotic Symptoms Improve as PTSD Improves? A Longitudinal Study
4	11:48 a.m. -11:54 a.m.	Michael Glassen, Soha Saleh, Sergei Adamovich	EEG-based Connectivity in Secondary Motor Areas is Related to Increased Functional Recovery Four Months Post-Stroke
5	11:54 a.m. -12:00 p.m.	Justin Hanenberg, Steven Marionneaux	Enhancing Patient Care Rounding with the Doctor of Clinical Laboratory Sciences
6	12:00 p.m. -12:06 p.m.	Dhana Lakshmi Kakumanu, Shanmukha Sai Prakash Jeelakarra, Bhagyarathi Ramen, Dinesh P Mital	Early Detection of Pancreatic Cancer Using Clinical Decision Support System (CDSS)
7	12:06 p.m. -12:12 p.m.	Abigail Kelly, Rachel Seo, Nicholas Pichette, Conora Gano, Kylie Margerison, Katrina Heller, Janice Oursler,	Work-Related Soft Skills Training For Young Adults With Autism Spectrum Disorder (ASD): A Case Series



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		Ni Gao, John Benninato, Weili Lu,	
8	12:12 p.m. -12:18p.m.	Wendy Medunick, Allison Gomes, Joachim Sackey, Laura Byham-Gray, Jane Ziegler	Disability-Related Content in US Nutrition and Dietetic Programs

### Session 3: 1:30pm – 2:25pm

**Moderator: Shristi Rawal, PhD**

#	Time	Authors and Co-Authors	Poster Title
1	1:30 p.m. – 1:36 p.m.	Kayla Sauers, Carolina Carlsson, Rachel Seo, Anya Markscheid, Indira Urbano, Erica DeGeorge, Clover Hu, Abigail Malbrough, Janice Oursler, Tameika Minor, Sunhee Eissenstat, Weili Lu	Navigating Differences: Employment-Related Soft Skills Training for Persons with Disabilities
2	1:36 p.m. -1:42 p.m.	Lyssa Lamport, Hamed Samavat, Allison Gomes, Melanie Newkirk, Laura Byham-Gray, Jane Ziegler	Early Enteral Nutrition with Mothers' Own Milk, Donor Human Milk, or a Combination of Both on Neonatal Feeding Milestones: A Cross-sectional Study
3	1:42 p.m. -1:48 p.m.	Jun Pei, Zhaomeng Niu	The Effects of Communication Functions on Skin Cancer Prevention Among Hispanics: The Mediating Roles of Health Self-Efficacy and Trust in the Health Information Sources
4	1:48 p.m. -1:54 p.m.	Julie McGuire, Anna Parker, Rebecca Brody	Optimizing Protein Intake in the ICU: A Case Study on Lean Body Mass Preservation
5	1:54 p.m. -2:00 p.m.	Gbenga Dairo, Kevin Mendez, Rachel S. Kelly, Scott T. Weiss, Jessica A. Lasky-Su, Priyadarshini Kachroo	Metabolomic signatures of the steroid biosynthesis driving sex differences in clinical asthma subtypes
6	2:00 p.m. -2:06 p.m.	Richa Modak, Alainn	Development Of A Liver Cirrhosis-Specific



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		Bailey, Laura Byham-Gray, Diane Rigassio-Radler	Nutrition Focused Physical Examination Tool: A Modified Delphi Study
7	2:06 p.m. -2:12 p.m.	Riddhi Vyas, Divya Chudasama, Manaswini Mahidhar, Rajvi D Chaudhary, Zeming Liu, Shankar Srinivasan	Lifestyle and Demographic Predictors of Depression Amount US Adults: A Cross-Sectional Analysis of NHANES 2017-2020 Data
8	2:12 p.m. -2:18p.m.	Jake Mariani, Clover Hu, Richard Woo, Abigail Malbrough, Katrina Heller, Amy Banko, Weili Lu	Trauma-Informed Career Counseling: A Scoping Review
9	2:18 p.m. -2:24 p.m.	Anca Cunningham, Allison Gomes, Lingqiong Meng, Sue Shapses, Laura Byham-Gray, Hamed Samavat	Effects of Green Tea Extract Supplementation on Inflammatory Cytokines among Postmenopausal Women with Overweight or Obesity

## Session 4: 2:30pm – 3:18pm

**Moderator: Weili Lu, PhD**

#	Time	Authors and Co-Authors	Poster Title
1	2:30 p.m. -2:36 p.m.	Michelle Montiel, Jennifer Gutterman, Michael Glassen, Soha Saleh	Neural Correlates of Cognitive Load During a Motor-Cognitive Dual-Task Exergame in Older Adults
2	2:36 p.m. -2:42 p.m.	Abigail Kelly, Rachel Seo, Erica Measday, Jonniera Smith, Krista Klie, Giovanna Giacobbe, Janice Oursler, Ni Gao, Weili Lu	Implementing Work-Related Soft-Skills (iCareer) Training in High School Classrooms with Students with Disabilities: A Case Study



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3	2:42 p.m. -2:48 p.m.	Erin Skinner, Hamed Samavat, Alaiinn Bailey, Laura Byham-Gray, Diane Radler	Impact of Medical Nutrition Therapy on Diet Quality
4	2:48 p.m. -2:54 p.m.	Samantha Peterson, Keara McNair, JoAnn Rusnak, Caroline Welch	Improving Vocational Participation in Adults with IDD: An Occupations-Based Screening Approach
5	2:54 p.m. -3:00 p.m.	Tara Rebele, Allison Gomes, Melanie Newkirk, Mina Ghajar, Laura Byham-Gray, Jane Ziegler	Growth and Human Milk Intake Outcomes from Post Discharge Feedings among Preterm Infants: Systematic Review
6	3:00 p.m. -3:06 p.m.	Kayla Richardson, Natalia Noce, Dana Richmond	Expanding Occupational Therapy Education: Integrating Non-Traditional Community-Based Practice to Enhance Student Learning
7	3:06 p.m. -3:12 p.m.	Rachel Seo, Katrina Heller, Jonnierah Smith, Jennifer Herrera, David Schmell, Damilola Bakare, Conora Gano, Taylor Smith, Melitta Oppenheim, Abigail Malbrough, John Beninato, Janice Oursler, Ni Gao, Giovanna Giacobbe, Joy Jia, Philip Yanos, Weili Lu	Internet Assisted Career-Oriented Soft-Skills Training (iCareer) for Transition Age Youth
8	3:12 p.m. -3:18 p.m.	Samantha Matson, Reem Aly, Amanda Giunta, Tarek Kamal, Jessica Muney, Matthew Palacios, Amber Rana, Mariannie Rodriguez, Anita Van Wingerden	Aquatic Therapy Outcomes for Postmenopausal Osteoporotic Women: Fall Risk, Quality of Life, and Bone Density