

**2022 Delaware Valley Research
Week Day 1, 8:00 a.m. – 1:00 p.m.
Monday, October 17
Location: E400 Auditorium
and virtual via Teams meeting link**



AGENDA

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| 8:00 – 8:05 | Opening Remarks
Mary M. Lee, MD, Executive Vice President, Chief Scientific Officer, Nemours Children's Health, Physician-in-Chief, Delaware Valley |
| 8:05 – 8:25 | Inaugural Address
R. Lawrence Moss, MD, President and Chief Executive Officer, Nemours Children's Health |
| 8:25 – 8:30 | Welcome
Vicky Funanage, PhD, Executive Director, Research, Nemours Children's Health |
| 8:30 – 8:40 | Proclamation
Governor John Carney, State of Delaware |
| 8:40 – 9:20 | Keynote Address: The IDeA Program: Supporting Students, Faculty, and Institutions in IDeA States
Ming Lei, PhD, Director, Division of Research Capacity Building, National Institute of General Medical Sciences (NIGMS) |
| 9:20 – 9:50 | Research Expanding Access to Child Health (REACH): A Nemours Center of Biomedical Research Excellence
Melissa Alderfer, PhD, Director, Center for Healthcare Delivery Science Center, Delaware Valley |
| 9:50 – 10:00 | Break |
| 10:00 – 10:10 | Mark D. Mumford, Executive Vice President, Chief Executive, Delaware Valley Operations, Nemours Children's Health |
| 10:10 – 10:40 | Sickle Cell Comprehensive Center of Biomedical Research Excellence
E. Anders Kolb, MD, Chief, Division of Hematology and Oncology, Director, Nemours Center for Cancer and Blood Disorders (NCCBD) |
| 10:40 – 11:00 | Immunotherapy for Acute Myeloid Leukemia
Sonali P. Barwe, PhD, Head, Nemours Cancer Modeling Lab |

Platform Presentations

- 11:00 – 11:15** **Adolescent and Caregiver Experiences Discussing Sickle Cell Trait and Desires for Information: A Qualitative Exploration**
Corina Schultz, MD, MSHP
- 11:15 – 11:30** **Reducing inappropriate blood cultures on a pediatric hematology/oncology unit by standardizing practice**
Craig Shapiro, MD
- 11:30 – 11:45** **Using crowdsourcing to examine implementation of sickle cell disease care guidelines across healthcare settings**
Aimee K. Hildenbrand, PhD
- 11:45 – 12:00** **Novel ZAP70 Mutation Causing Immunodeficiency Treated with Hematopoietic Stem Cell Transplant**
Jason White, DO
- 12:00 – 12:15** **Endothelial Activation Markers in Plasma from Children with Sickle Cell Disease (SCD) and their Association with Omega-3 Polyunsaturated Fatty Acids (O3PUFAs)**
Yamaja Setty, PhD
- 12:15 – 12:30** **Prenatal inflammation primes pulmonary immune cells to postnatal hyperoxia-induced lung injury**
Saminathan Anbalagan, MD
- 12:30 – 12:45** **Early Prevalence of SARS-Cov-2 Antibody in Children Presenting with Kawasaki Disease, and Myocarditis prior to Recognition of COVID-19 in the Region**
Deepika Thacker, MD
- 12:45 - 1:00** **Small activating RNA therapy for lysosomal storage disorders**
Shaukat Khan, PhD

Additional Instructions:

Events will be in the E400 Experimental Station Auditorium, and viewable via Microsoft Teams link.

**2022 Delaware Valley Research
Week Day 2, 12:00 – 5:00 p.m.
Tuesday, October 18
Location: E400 Auditorium
and virtual via Teams meeting link**



AGENDA

- 12:00 – 12:30** **Creating a Culture to Support Academic & Research Pursuits in a Clinically Busy World**
Shubhika Srivastava, MD, Chief, Division of Cardiology, Nemours Cardiac Center
- 12:30 – 12:45** **Anti-Hypertensive Therapy Prescription in Youth with a Diagnosis of Systemic Hypertension, A Delaware Medicaid Study**
Carissa Baker-Smith, MD, MPH, Director of Pediatric Preventative Cardiology Program
- 12:45 – 1:00** **HEARTPrep: A virtually delivered psychosocial intervention for mothers expecting a baby with congenital heart disease**
Erica Sood, PhD, Pediatric Psychologist, Nemours Cardiac Center
- Patient Family Testimonial**
- 1:00 – 1:15** **Partnering in the development of HEARTPrep: A parent's perspective**
Sarah W. Banach, LSW
- Platform Presentations**
- 1:15 – 1:30** **Contemporary Outcomes Following In-Hospital Extracorporeal CPR in Children**
Christopher Derby, MD
- 1:30 – 1:45** **Predicting pediatric cardiac surgery-associated acute kidney injury using machine learning**
Ali Mirza Onder, MD
- 1:45 – 2:45** **Poster Sessions – Nemours Children's Hospital Atrium**
- 2:45 – 3:00** **Break**
- 3:00 – 3:15** **Precision Medicine Overview**
Vicky Funanage, PhD, Executive Director, Nemours Research
Pamela H. Arn, MD, Executive Director, Nemours Education

Platform Presentations – Precision Medicine

- 3:15 – 3:30** **Leveraging machine learning and big data to understand childhood obesity outcomes**
Thao-Ly Tam Phan-Vo, MD, MPH
- 3:30 – 4:00** **Clinical Pharmacogenomics Service Consultations at a Multi-State Pediatric Health System**
Benjamin Duong, PharmD
- 4:00 – 4:15** **Heterogeneity of Juvenile Idiopathic Arthritis Synovial Fibroblasts Correlates to Disease Progression and Provides Compelling Diagnostic Data**
Annemarie C. Brescia, MD
- 4:15 – 5:00** **PEDSnet Workshop: Building Cohorts in Atlas**
Tim Bunnell, PhD, Director, Nemours Biomedical Research Informatics Center
Dan Eckrich, MLIS, Enterprise Data Architect

Additional Instructions:

Events will be in the E400 Experimental Station Auditorium, and viewable via Microsoft Teams link.

2022 Delaware Valley Research Week
Day 3, 9:00 a.m. – 1:00 p.m.
Wednesday, October 19
Location: Virtual (Microsoft Teams)



AGENDA

- 9:00 – 9:20** **Keynote Leveraging Partnerships to Improve Children's Health in Delaware**
Lieutenant Governor Bethany Hall-Long, State of Delaware
- 9:20 – 10:00** **Jefferson College of Population Health: Overview and Opportunities for Collaboration**
Billy Oglesby, PhD, MBA, MSPH, FACHE, Dean, Jefferson College of Population Health
- 10:00 – 11:00** **Community Engagement and Partnerships to Address Social Determinants of Health**
Moderated by Kara Odom Walker, MD, MPH, MSHS, Executive Vice President, Chief Population Health Officer, Nemours Children's Health
- 11:00 – 11:10** **Break**
- 11:10 – 12:00** **Research and Interventions to Improve Health Equity**
Moderated by Rachel Thornton, MD, PhD, Vice President, Chief Health Equity Officer, Nemours Children's Health
- 12:10 – 1:00** **Poster Sessions – Nemours Children's Hospital Atrium**

Additional Instructions:

Today's events will be held virtually and viewable via Microsoft Teams link.

2022 Delaware Valley Research Week
Day 4, 8:00 a.m. – 2:00 p.m.
Thursday, October 20
Location: E301 Conference Room
and virtual via Teams meeting link



AGENDA

8:00 – 8:30 Neuroscience Research Highlights

Rodney Scott, MD, PhD, Chief, Division of Neurology, Nemours Children's Health, Delaware Valley

Nemours-Thomas Jefferson University Joint Clinical Research Seminar

8:30 – 8:50 Imaging of Pediatric Brain Tumors:

Challenges, Opportunities & Recent Advances

Rahul Nikam, MD, Enterprise Medical Director of Nemours Radiology Research

8:50 – 9:15 Neuroimaging Biomarkers for Spinal Cord Injury: Refining the Diagnosis

Feroze Mohamed, PhD, FASFN, Director, Jefferson Integrated Magnetic Resonance Imaging Center, Professor of Radiology, TJU

Platform Presentations

9:15 – 9:30 PET Imaging of Tryptophan Metabolism in a Neurofibromatosis Type 1 Animal

Xuyi Yue, PhD

9:30 – 9:45 Mechanism for Prevention of Cognitive Impairments After Early Life Seizures with ACTH

Mohamed Khalife, MS

9:45 – 10:00 COVID-19, Postpartum Mental Health, and Infant Development

Meghan Harrison, DO

10:00 – 10:10 Break

10:10 – 10:25 Improving the Diversity of a Nursing Workforce Through the Use of a Pipeline Development Program

Margaret LaFashia, MBA, BSN, RN, NPD-BC

10:25 – 10:40 Sex Differences/Microglial Response-Improved Mouse Model-Hypoxic Ischemic Encephalopathy

Elizabeth Wright-Jin, MD

10:40 – 10:55 Collagenase clostridium histolyticum decreases muscle stiffness in cerebral palsy: an ex-vivo biomechanical analysis of hip adductor muscle fiber bundles and dose-response determination

Jason Howard, MD

11:00 – 11:30 Engineering Peptide Interactions to Design Micro and Nanostructured Biomaterials

Kristi Kiick, PhD, Professor and Chair, Biomedical Engineering,
University of Delaware

Nemours-Thomas Jefferson University Pediatric Award for Clinical Research Awardee Presentations

11:30 – 11:40 Pediatrics and Police...Where should the two meet?

Robyn Miller, MD

11:40 – 11:50 Myoelectric devices for restoration of independent arm function in children with neurological disease and injury

Mijail Serruya, MD, PhD

11:50 – 12:30 Highlights on Nemours-Thomas Jefferson University Clinical Research Progress and Guidance for Future Pediatric Clinical Research Collaborations/Grants

David Whellan, MD, MHS
Judith Ross, MD

12:30 – 1:00 LUNCH BREAK

1:00 – 2:00 Poster Sessions – Nemours Children's Hospital Atrium

Additional Instructions:

Events will be in the E301 Experimental Station Conference Room and viewable via Microsoft Teams link.

2022 Delaware Valley Research Week
Day 5, 12:00 p.m. – 4:00 p.m.
Friday, October 21
Location: See locations below
 and virtual via Teams meeting link



AGENDA

		<u>LOCATION</u>
12:00 – 12:45	Collaborations to Advance Technology and Healthcare Moderator, Michael Fleming, President, Delaware Bioscience Association	E402/3209
12:45 – 1:00	Orthopedics Research Highlights William G. Mackenzie, MD, Shands/MacEwen Endowed Chair, Department of Orthopedics, Nemours Children's Hospital, Delaware	E402/3209
	Platform Presentation	E402/3209
1:00 – 1:15	Outcome of Talocalcaneal Coalition Resection Assisted with Intraoperative Navigation Mihir Thacker, MD	
1:15 – 1:30	Complications Following Surgical Treatment of Adolescent Idiopathic Scoliosis: a 10-year Prospective Follow-up Study Suken Shah, MD	
1:30 – 1:45	The Effectiveness of Serial Casting in the Treatment of Recurrent Equinovarus in Children with Arthrogryposis Louise Nichols, MD	
1:45 – 2:00	The Fate of The Bent Rod in Children with Osteogenesis Imperfecta Jeanne M Franzone, MD	
2:00 – 3:00	Poster Sessions – Nemours Children's Health	NCH - Atrium
3:00 – 3:30	Biomarkers in Skeletal Dysplasia Michael Bober, MD, PhD, Medical Director, Orthogenetics, Nemours Children's Hospital, Delaware	E400 Auditorium
	Patient Family Testimonial	
3:30 – 3:45	Our Journey to Surgical Innovation and Participation in a Clinical Trial Tracy Kleban	E400 Auditorium
3:45 – 4:00	Closing Ceremony Mary M. Lee, MD, Executive Vice President, Chief Scientific Officer, Nemours Children's Health, Physician-in-Chief, Delaware Valley	E400 Auditorium