Our Shared Commitment
The Southeastern Pediatric Research Conference co-chairs share with all attendees, speakers, and staff a commitment to and responsibility for a safe and healthy environment for all event participants. As we pursue this commitment, we are grateful for the community’s deep knowledge of the risks posed by COVID-19 and full support for safety procedures we are implementing to reduce potential virus spread. Thank you for your kind consideration of the comfort and preferences of your fellow conference attendees.

The following safety and preventative measures take into consideration guidance from federal, state, and local public health authorities. Even as we implement these measures, please be aware that we cannot fully eliminate all risks to event participants or fully guarantee safety from COVID-19. Ultimately, as a 2022 Southeastern Pediatric Research Conference participant, you are responsible for your own safety. Please recognize that this is a fluid situation, and our safety procedures may change. We will update you as needed via the conference website, emails, and other communication channels. Thank you for understanding.

COVID-19 Safety Procedures:

**Face Coverings:**
All attendees are required to wear a mask at all times at all indoor functions except while eating or drinking. Masks must cover both the nose and the mouth. Surgical or N95 masks are recommended.

**Vaccines:**
All in-person attendees are required to be fully vaccinated (defined as >14 days since the completion of a primary COVID-19 vaccine series). By attending the annual meeting in person, attendees attest that they are fully vaccinated for COVID-19. If you are not fully vaccinated, you may contact us for a refund.

**Symptoms and illness recovery:**
Please do not attend if you:
- have or develop any symptoms consistent with an illness within 24 hours of the conference.
- are recovering from an illness or subject to isolation until after you have exceeded your isolation period and have been symptom-free for 24 hours without the use of symptom-relieving medications.
- feel unwell, are awaiting COVID-19 test results, believe you have been exposed, or are unable to participate safely.

**Physical Distancing:** Please be mindful of physical distancing when interacting with other attendees. Seating in the meeting venue will allow for physical distancing.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00am - 8:00am</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>8:00am - 8:05am</td>
<td>Opening Remarks by Co-Chairs</td>
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<tr>
<td></td>
<td><strong>Sam Brown, PhD</strong></td>
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<td></td>
<td>Professor &amp; Director of the Center for Microbial Dynamics and Infection</td>
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<td></td>
<td>Georgia Tech</td>
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<td><strong>Lilly Immergluck, MD, MS, FAAP</strong></td>
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<td></td>
<td>Professor, Morehouse School of Medicine</td>
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<td>Director, Pediatric Clinical &amp; Translational Research Unit, Clinical Research Center,</td>
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<td>Morehouse School of Medicine</td>
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<td>Associate Professor-Adjunct, Emory University, Rollins School of Public Health, Department</td>
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<td>of Epidemiology</td>
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<td>Pediatric Infectious Disease Specialist and Urgent Care Physician, Children’s Healthcare</td>
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<td>Principal Investigator, Morehouse School of Medicine’s Site, US COVID-19 Prevention</td>
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<td></td>
<td>Network</td>
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<td>8:05am - 8:15am</td>
<td>Welcome from Leadership</td>
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<td><strong>Donna Hyland</strong></td>
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<td>President and Chief Executive Officer, Children’s Healthcare of Atlanta</td>
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<td><strong>Lucky Jain, MD, MBA</strong></td>
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<td>George W. Brumley, Jr. Professor and Chair</td>
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<td></td>
<td>Department of Pediatrics</td>
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<td>Emory University School of Medicine</td>
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<td>Chief Academic Officer, Children’s Healthcare of Atlanta</td>
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### 8:15am - 8:25am

**State of the Institute**

- **Clinton H. Joiner, MD, PhD**  
  Vice Chair for Research, Department of Pediatrics  
  Chief Research Officer, Children’s Healthcare of Atlanta  
  Aflac Children’s Chair for Hematology  
  Director, Section of Hematology, Aflac Cancer and Blood Disorders Center  
  Professor of Pediatrics, Emory University School of Medicine

### 8:25am - 8:35am

**Introduction of the Inaugural Peterson Professorship Recipients**

- **Nicoleta Serban, PhD**  
  Peterson Professor of Pediatric Research  
  School of Industrial and Systems Engineering  
  Georgia Tech  

- **Jaydev P. Desai, FIEEE, FAIMBE, FASME**  
  Peterson Professor of Pediatric Research; Wallace H. Coulter Department of Biomedical Engineering; Georgia Tech  
  Director, Georgia Center for Medical Robotics & Associate Director - Institute for Robotics and Intelligent Machines (IRIM)

### 8:35am - 9:15am

**Housing Discrimination and Asthma Disparities**

- **Elizabeth Matsui, MD, MHS**  
  Professor, Department of Population Health  
  Associate Director, Health Transformation Research Institute  
  Director, Center for Health & Environment: Education & Research  
  University of Texas, Austin

### 9:15am - 9:35am

**Placental Origins of Health and Disease**

- **Carmen Marsit, PhD**  
  Associate Dean for Research  
  Rollins Distinguished Professor of Research  
  Professor of Environmental Health and Epidemiology  
  Rollins School of Public Health, Emory University

### 9:35am - 10:20am

**Break & Poster Session**

*Voting begins*

### 10:20am - 10:40am

**Metabolomics - A Discovery-based Approach in the Infection Relevant Environment**

- **Neha Garg, PhD**  
  Assistant Professor  
  School of Chemistry and Biochemistry  
  Georgia Tech
### 10:40am - 11:00am

**Short Talks on Selected Abstracts**

- **10:40am - 10:50am: Adeola Michael, PhD**
  - *Chronic Inflammation Promotes Hepatic Liver Injury in a Humanized Mouse Model of Sickle Cell Disease*

- **10:50am - 11:00am: Antonio Rampoldi, PhD** (presenting on behalf of Parvin Forghani, PhD)
  - *Enhanced Maturation of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Under Simulated Microgravity*

- **11:00am - 11:10am: Murugadas Anbazhagan, PhD**
  - *Mucosal Biopsy Derived Mesenchymal Stromal Cells Display Fitness and Functionality to Use as Autologous Cellular Pharmaceuticals for Inflammatory Bowel Disease (IBD)*

- **11:10am - 11:20am: Sharon Vijayanand, B. Pharm**
  - *Two Birds, One Stone: Pain-free Dissolving Microneedles to Protect against COVID-19 and Influenza*

### 11:20am - 12:00pm

**Networking Lunch and Poster Viewing**

### 12:00pm - 1:00pm

**Afternoon Welcome**

### 1:00pm - 1:40pm

**Microbes, Maturation and Health**

**Grace Aldrovandi, MD, CM**
Chief of the Division of Infectious Diseases at UCLA Mattel Children’s Hospital
Professor of Pediatrics at the David Geffen School of Medicine
University of California, Los Angeles

### 1:40pm - 2:00pm

**Short Talks on Selected Abstracts**

- **1:40pm - 1:50pm: Deepak Kumar, PhD**
  - *mTOR Inhibition Attenuates cTfh Cell Dysregulation and Chronic T cell Activation in Evans Syndrome*

- **1:50pm - 2:00pm: Brooke Schirmer, BS**
  - *Social Visual Engagement Measures of Implicit Social Attribution in Children with and without Autism Spectrum Disorder*

- **2:00pm - 2:10pm: Jessica Pierce, PhD**
  - *The Microbiome Contributes to Endochondral Heterotopic Ossification in FOP Mice by Regulating Innate Immune Cell Recruitment and Polarization*

- **2:10pm - 2:20pm: Elizabeth Kennedy, PhD**
  - *Placental MicroRNAs Associated with Pre-pregnancy BMI Link Placental Function and Early Childhood Growth*
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<tr>
<td>2:20pm - 3:05pm</td>
<td>Break &amp; Poster Session (voting ends)</td>
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| 3:05pm - 3:25pm | What You Sense is How You Grow: Sensory Neural Underpinnings of Preterm Infant Development  
Nathalie Maitre, MD, PhD  
Director of Early Development and Cerebral Palsy Research  
Division of Neonatology, Department of Pediatrics  
Emory University School of Medicine  
Children’s Healthcare of Atlanta |
| 3:25pm - 3:55pm | The Lasting Effects of Early Adversity on Brain and Behavior: Lessons from the Bucharest Study  
Nathan Fox, PhD  
Distinguished University Professor  
University of Maryland |
| 4:05pm - 4:10pm | Presentation of Poster Awards                                           |
| 4:10pm - 4:15pm | Closing Remarks                                                         |
| 4:15pm - 5:00pm | Reception with Raffle Drawing at 5:00pm (must be present to win)        |
| 5:00pm - 8:00pm | Complimentary Aquarium Admission for Conference Attendees               |

**CME Credits**

The Emory University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians. The Emory University School of Medicine designates this live activity for a maximum of 3 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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