



**Children's**<sup>SM</sup>  
Healthcare of Atlanta



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# 2022 Pediatric Research and Career Development Symposium

**Tuesday, August 2, 2022**

**9:00 am – 5:00 pm**

**Followed by a 5-6pm Networking Hour**

# Program

**Sponsored by the NICHD supported  
Atlanta Pediatric Scholars Program, K12HD072245**

# WELCOME

Dear Colleagues,

## **We would like to officially welcome you to our fourth Pediatric Research and Career Development Symposium!**

Last year our presenters were in person and some of our attendees were virtual. This year, we are excited to return entirely in person and for the networking and personal interactions that come from seeing our friends and colleagues. We are delighted to have Dr. Leslie Kean, a pediatric hematologist/oncologist from Boston Children's Hospital, present the keynote presentation "Constraints Breed Creativity: A Career Path as a Winding Road," which will be an inspirational presentation for clinical and basic scientists alike.

Throughout the day you will get to hear oral presentations, watch poster blitz presentations, and visit with poster presenters. We hope you enjoy learning about the exciting clinical, basic, and translational research being carried out by our emerging pediatric research talent at Emory University and Children's Healthcare of Atlanta.

Sincerely,



**Clinton Joiner, MD, PhD**

*Symposium Co-Chair*

*Vice Chair for Research, Department of Pediatrics*

*Aflac Children's Chair for Hematology Director, Section of Hematology, Aflac Cancer and Blood Disorders Center/Children's Healthcare of Atlanta*

*Professor of Pediatrics, Emory University School of Medicine*



**Claudia R. Morris, MD, FAAP**

*Symposium Co-Chair*

*Professor of Pediatrics and Emergency Medicine*

*The Wilbur Fisk Glenn Jr. Distinguished Faculty Chair*

*for Clinical & Translational Research*

*Research Director, Division of Pediatric Emergency Medicine*

*Co-Director, Center for Clinical and Translational Research*

*Emory University School of Medicine*



**Stacy Heilman, PhD**

*Symposium Co-Chair*

*Assistant Professor*

*Associate Vice Chair for Research*

*Emory University Dept of Pediatrics & Children's Healthcare of Atlanta*



**Vivien Sheehan, MD, PhD**

*Symposium Co-Chair*

*Director of Translational SCD Research*

*Aflac Cancer & Blood Disorders Center*

*Children's Healthcare of Atlanta*

*Associate Professor of Pediatrics*

*Emory University School of Medicine*

## KEYNOTE SPEAKER

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### **Leslie S. Kean, MD, PhD**

*Director, Stem Cell Transplantation Program  
Division of Hematology/Oncology,  
Boston Children's Hospital  
Department of Pediatric Oncology,  
Dana-Farber Cancer Institute  
Robert A. Strahan Professor of  
Pediatrics, Harvard Medical School*

Dr. Kean is a clinician-scientist with extensive laboratory and clinical expertise in transplantation immunology. She is the Director of Pediatric Stem Cell Transplant at Boston Children's Hospital and the Dana-Farber Cancer Institute, and a Full Professor at Harvard University. Dr. Kean spent the early part of her training at Emory University School of Medicine where she received her MD/PhD and completed her residency and fellowship. Before coming to Boston Children's, Dr. Kean was an Associate Professor at Seattle Children's Hospital.

Dr. Kean's research program is focused on the immunology of hematopoietic stem cell transplantation. The overarching goal of her research is to understand mechanisms underlying immune tolerance after transplantation, with a specific focus on mixed-chimerism induction for solid organ transplantation, graft-versus-host disease (GvHD), transplant rejection, and the reconstitution of protective immunity after transplantation. Dr. Kean's work on mixed-chimerism, transplant rejection and GvHD has led to the creation of novel, MHC-defined non-human primate models of both engraftment and GvHD, as well as several first-in-disease clinical trials. She has used both the animal models and the mechanistic studies linked to her clinical trials to investigate the cellular and molecular mechanisms of immune reconstitution, GvHD and transplant rejection, and to test the impact that novel immunosuppressive therapies can make on these processes.

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## MORNING AGENDA

| Time  | Presentation  |  |
|---|---|--|
| 9:00 - 9:15 am                                      | <b>Welcome -</b><br>Lucky Jain, MD, MBA; Clinton Joiner, MD, PhD; Stacy Heilman, PhD                |  |
| 9:15 - 9:30 am                                      | <b>Current and Previous K12 Scholars and Accomplishments -</b><br>Stacy Heilman, PhD                |  |
| <b>Basic Science Oral Presentations</b>             |   |  |
| 9:30 - 9:45 am                                      |                    | <b>Dailia Francis, MD</b><br>Elucidating a role for Siglec-15 in immune dysregulation in Non-Hodgkin's Lymphoma                |
| 9:45 - 10:00 am                                     |                    | <b>Stefi Barbian, MD</b><br>Butyrate supplementation in pregnant mice reduces neonatal gastrointestinal injury                 |
| 10:00 - 10:15 am                                    | <b>BREAK</b>  |  |
| 10:15 - 11:00 am                                    | <b>Basic Science Poster Session/BLITZ</b><br><i>8 Poster Presentations (3-minute presentations)</i> |  |
| <b>Basic Science Oral Presentations (continued)</b> |   |  |
| 11:00 - 11:15 am                                    |                  | <b>Alexandre Cammarata-Mouchtouris, PhD</b><br>Multi-omics Study of Lung-recruited Pathological Neutrophils in Cystic Fibrosis |
| 11:15 - 11:30 am                                    |                  | <b>Shubin Shahab, MD, PhD</b><br>Targeting the LIN28B Pathway Improves Outcomes in Group 3 Medulloblastoma                     |

|   |  |
|---|--|
| 11:30 am - 12:15 pm   | <p><b>Basic Science Poster Session</b></p> <hr/> <p><b>1</b> AZD5582 and SIV Env-targeting rhesus monoclonal antibodies (RhmAbs) ± N-803 in SIV-infected ART-suppressed rhesus macaques<br/><b>Amir Dashti, PhD</b></p> <p><b>2</b> IgM Drives CD4 T Cell Responses to Factor VIII in Mice<br/><b>Patricia Zerra, MD</b></p> <p><b>3</b> Using Single Transcriptome Analysis to Characterize Post-therapy Residual Leukemic Blasts and Immune cells in Pediatric Acute Myeloid Leukemia<br/><b>Beena Thomas, PhD</b></p> <p><b>4</b> Pediatric acute myeloid leukemia relapse-associated novel biomarker revealed by single cell transcriptome profiling is associated with cell proliferation and migration<br/><b>Mojtaba Bakhtiari, MD</b></p> <p><b>5</b> Pathologic Mechanobiological Interactions between Red Blood Cells and Endothelial Cells Directly Induce Vasculopathy in Iron Deficiency Anemia<br/><b>Christina Caruso, MD</b></p> <p><b>6</b> Introducing a Biophysical Platelet Function Panel to Investigate Bleeding of Unknown Cause<br/><b>Sally Azer, MD</b></p> <p><b>7</b> Defining the Potency of Allogeneic <math>\gamma\delta</math> T Cell Expansions for Novel Cellular Immunotherapy Approaches in Neuroblastoma<br/><b>Hunter Jonus, PhD</b></p> <p><b>8</b> Chronic Inflammation Promotes Hepatic Injury in a Humanized Mouse Model of Sickle Cell Disease<br/><b>Adeola Michael, PhD</b></p> |
| 12:15 - 12:55 pm  | Lunch Break – Boxed lunches served in HSRB Café  |
| 12:55 - 1:00 pm   | Announce winners for Best Basic Science Oral and Poster Presenters   |
| 1:00 - 2:00 pm  | Keynote Presentation   |
|  | <p><b><i>“Constraints Breed Creativity: A Career Path as a Winding Road”</i></b></p> <p>Leslie Kean, MD, PhD<br/>         Director, Stem Cell Transplantation Program<br/>         Division of Hematology/Oncology, Boston Children’s Hospital<br/>         Department of Pediatric Oncology, Dana-Farber Cancer Institute<br/>         Robert A. Strahan Professor of Pediatrics, Harvard Medical School</p>  |
| <b>AFTERNOON PROGRAM AGENDA</b>   |  |
| <b>Time</b>   | <b>Presentation</b>  |
| 2:00 - 2:15 pm  | <p><b>Current and Previous K12 Scholars and Accomplishments - Stacy Heilman, PhD</b></p>   |

| Clinical & Outcomes Research Oral Presentations                    |  |
|--|--|
| 2:15 - 2:30 pm   |  <p><b>Matthew Dove, MD</b><br/>CMR Findings of COVID-19 Vaccine Associated Myocarditis at Intermediate Follow Up: a Comparison to Classic Myocarditis and MIS-C Related Myocarditis</p>  |
| 2:30 - 2:45 pm   |  <p><b>Sharmila Raghunandan, DO</b><br/>Abatacept For The Prevention Of GVHD In Pediatric Patients Receiving 7/8 HLA-Mismatched Unrelated Transplant For Hematologic Malignancies</p>   |
| 2:45 - 3:00 pm   | <b>BREAK</b>   |
| 3:00 - 3:30 pm   | <b>Clinical &amp; Outcomes Research Poster Session/BLITZ</b><br><i>6 Poster Presentations (3-minute presentations)</i>   |
| Clinical & Outcomes Research Oral Presentations <i>(continued)</i> |  |
| 3:30 - 3:45 pm   |  <p><b>Brent Troy, MD</b><br/>Changes In Pediatric Injuries Sustained While Engaged In Activities Where Helmet Usage Is Recommended During The COVID-19 Pandemic</p>   |
| 3:45 - 4:00 pm   |  <p><b>Kristy Rostad, MD</b><br/>Children's Healthcare of Atlanta Vaccine Immune Response Detection (CHOVID): Serologic Responses to COVID-19 Vaccines in Pediatric Kidney Transplant Recipients</p>  |
| 4:00 - 4:45 pm   | <b>Clinical &amp; Outcomes Research Poster Session</b> <hr/> <p><b>9</b> Reducing Firearm Access for Youth At-Risk for Suicide in a Pediatric Emergency Department<br/><b>Sofia Chaudhary, MD</b></p> <p><b>10</b> Retrospective Chart Review of Pediatric Patients with Paroxysmal Nocturnal Hemoglobinuria<br/><b>Nabil Saleem, MD</b></p> <p><b>11</b> The Impact of Nutritional Inadequacies on Stature for Patients with Avoidant-Restrictive Food Intake Disorder<br/><b>Kaitlin Proctor, PhD</b></p> <p><b>12</b> Assessment of the Humoral and Cellular Immune Function in Carriers of CD40L Deficiency<br/><b>Jason Moraczewski, MD</b></p> |

|                |   |
|----------------|---|
|                | <p><b>13</b> Positive Bacterial Blood Cultures and Time to Positivity in Children: Should Empiric Antibiotics be Reconsidered Sooner?<br/> <b>Pratik Patel, MD</b></p> <p><b>14</b> Outcomes After SARS-CoV-2 Vaccination Among Children With a History of Multisystem Inflammatory Syndrome<br/> <b>Brooke Evans, MD</b></p> |
| 4:45 - 4:50 pm | Announce winners for Best Clinical & Outcomes Research Oral and Poster Presenters   |
| 4:50 pm        | Closing Remarks   |
| 5:00 – 6:00pm  | Networking Hour   |

## ATTENDEE DIRECTORY

| First Name         | Last Name             | Email Address                            |
|--------------------|-----------------------|--|
| Daniel             | Adesina               | danieladesina0@gmail.com                 |
| Liliana            | Aguayo                | laguay2@emory.edu                        |
| David              | Archer                | darcher@emory.edu                        |
| Carla              | Armour                | carla.j.armour@emory.edu                 |
| Sally              | Azer                  | sally.azer@emory.edu                     |
| Brooke             | Bagby                 | brooke.bagby@choa.org                    |
| Mojtaba            | Bakhtiari             | mbakht3@emory.edu                        |
| Stefi              | Barbian               | mcevall@emory.edu                        |
| Glaivy             | Batsuli               | gbatsul@emory.edu                        |
| Lou Ann            | Brown                 | lbrow03@emory.edu                        |
| Alexandre          | Cammarata-Mouchtouris | acammar@emory.edu                        |
| Meredith           | Capasse               | meredith.capasse@emory.edu               |
| Christina          | Caruso                | christina.caruso@emory.edu               |
| Shanmuganathan     | Chandrakasan          | schan31@emory.edu                        |
| Sofia              | Chaudhary             | schaud3@emory.edu                        |
| Satheesh           | Chonat                | satheesh.chonat@emory.edu                |
| Glenda             | Daniel                | glenda.daniel@choa.org                   |
| Amir               | Dashti                | amir.dashti@emory.edu                    |
| Matthew            | Dove                  | mldove@emory.edu                         |
| Venkata Viswanadh  | Edara                 | venkata.viswana.chowdary.edara@emory.edu |
| Brooke             | Evans                 | bevans9@emory.edu                        |
| Elisabetta Manuela | Foppiani              | efoppia@emory.edu                        |
| Kimberly           | Foster                | kfoster34@student.gsu.edu                |
| Dailia             | Francis               | dailia.benita.francis@emory.edu          |
| Kiesha             | Fraser Doh            | kiesha.fraser@emory.edu                  |
| Beatrice           | Gee                   | bgee@emorye.edu                          |
| Roshan             | George                | roshan.punnoose.george@emory.edu         |
| Timothy            | Gershon               | timothy.gershon@emory.edu                |
| Gillian            | Glauber               | gillian.glauber@emory.edu                |
| Matthew            | Goldstein             | matthew.goldstein@emory.edu              |
| Lucia Amor         | Gonzalez Ramirez      | lucia.gonzalez.ramirez@emory.edu         |
| Ann                | Haight                | ann.haight@choa.org                      |
| Dr. Katilia        | Harden                | katiliaharden@emory.edu                  |
| Julie              | Hawk                  | julie.lollar.hawk@emory.edu              |
| Zhulin             | He                    | zhulin.he@emory.edu                      |
| Stacy              | Heilman               | stacy.heilman@emory.edu                  |
| Helaina            | Huneault              | hhuneau@emory.edu                        |
| Eric               | Hunter                | ehunte4@emory.edu                        |
| Lucky              | Jain                  | ljain@emory.edu                          |
| Andrew             | Jergel                | andrew.jergel@emory.edu                  |



| First Name  | Last Name   | Email Address                     |
|-------------|-------------|-----------------------------------|
| Navdeep     | Jhita       | njhita2@emory.edu                 |
| Kymry       | Jones       | ktjone8@emory.edu                 |
| Hunter      | Jonus       | hunter.jonus@emory.edu            |
| Bum-Yong    | Kang        | bum-yong.kang@emory.edu           |
| Saul        | Karpen      | skarpen@emory.edu                 |
| Leslie      | Kean        | leslie.kean@childrens.harvard.edu |
| Rohali      | Keesari     | rohali.keesari@emory.edu          |
| Frank       | Keller      | frank.keller@choa.org             |
| Anna        | Kenney      | anna.kenney@emory.edu             |
| Kylie       | Kersh       | kylie.kersh@choa.org              |
| Jiyoung     | Kim         | jkim261@emory.edu                 |
| James       | Kohler      | jjkohle@emory.edu                 |
| Wayne       | Liang       | wayne.liang@choa.org              |
| Katie       | Liu         | kliu229@emory.edu                 |
| Malerie     | McDowell    | malerie.grace.mcdowell@emory.edu  |
| Jocelyn     | Mcneaney    | jmcnean@emory.edu                 |
| Shannon     | Meeks       | smeeks@emory.edu                  |
| Adeola      | Michael     | aomich@emory.edu                  |
| Tamara      | Miller      | tamara.miller@emory.edu           |
| Taylor      | Montminy    | tmontmi@emory.edu                 |
| Jason       | Moraczewski | jmoracz@emory.edu                 |
| Claudia     | Morris      | claudia.r.morris@emory.edu        |
| Nia         | Moyer       | nia.moyer@choa.org                |
| Matthew     | Oster       | osterm@kidsheart.com              |
| Seema       | Patel       | srpate2@emory.edu                 |
| Pratik      | Patel       | pratik.patel@emory.edu            |
| Sarah       | Prewoznik   | sprewoz@emory.edu                 |
| Kaitlin     | Proctor     | kaitlin.proctor@choa.org          |
| Muna        | Qayed       | mqayed@emory.edu                  |
| CK          | Qu          | cheng-kui-qu@emory.edu            |
| Sharmila    | Raghunandan | sraghu2@emory.edu                 |
| Ana         | Ramirez     | anamaramirez90@gmail.com          |
| Shawn       | Reese       | shawn.reese@choa.org              |
| Michael     | Ripple      | mripple@emory.edu                 |
| Christianna | Roggeveen   | croggev@emory.edu                 |
| Christina   | Rostad      | christina.rostad@emory.edu        |
| Judson      | Russell     | judson.russell@choa.org           |
| Nabil       | Saleem      | nabilsaleem@gmail.com             |
| Stefan      | Sarafianos  | ssarafi@emory.edu                 |
| Michelle    | Schoettler  | Michelle.Schoettler@emory.edu     |
| Meera       | Shah        | meera.shah@emory.edu              |
| Shubin      | Shahab      | sshahab@emory.edu                 |
| Andi        | Shane       | ashane@emory.edu                  |

| First Name | Last Name    | Email Address                    |
|------------|--------------|----------------------------------|
| Vivien     | Sheehan      | vivien.sheehan@emory.edu         |
| Vidisha    | Singh        | vidisha.singh@emory.edu          |
| Elizabeth  | Stenger      | estenge@emory.edu                |
| Beena      | Thomas       | beena.elizabeth.thomas@emory.edu |
| Rabindra   | Tirouvanziam | tirouvanziam@emory.edu           |
| Brent      | Troy         | btroy@emory.edu                  |
| Emily      | Tyus         | emilytyus@gmail.com              |
| Megan      | Vallowe      | megan.vallowe@emory.edu          |
| Brian      | Vickery      | bpvicke@emory.edu                |
| Miriam     | Vos          | mvos@emory.edu                   |
| Armin      | Vosoughi     | armin.vosoughi@emory.edu         |
| Xi         | Wang         | Allisonwang58@gmail.com          |
| Barry      | Warshaw      | bwarsha@emory.edu                |
| Ben        | Watkins      | benjamin.watkins@emory.edu       |
| Tyshawn    | White        | trwhit2@emory.edu                |
| Tracy      | Willoughby   | twillo2@emory.edu                |
| Bill       | Woods        | william.woods@choa.org           |
| Jens       | Wrammert     | jwramme@emory.edu                |
| YIJIN      | XIANG        | yijin.xiang@emory.edu            |
| Chunhui    | Xu           | chunhui.xu@emory.edu             |
| Jason      | Yustein      | jason.yustein@emory.edu          |
| Patricia   | Zerra        | pzerra@emory.edu                 |
| Xiaodong   | Zhang        | xzhang8@emory.edu                |

## ACKNOWLEDGEMENTS

**We would like to thank the K12 Executive Committee and Symposium Co-Chairs for sponsoring and organizing this event:**

Lou Ann Brown, PhD  
Ann Chahroudi, MD, PhD  
Stacy Heilman, PhD  
Lucky Jain, MD, MBA  
Clint Joiner, MD, PhD  
Wilbur Lam, MD, PhD  
Saul Karpen, MD, PhD  
Claudia Morris, MD, FAAP  
Vivien Sheehan, MD, PhD

**A special thanks to our esteemed faculty and staff for their contributions, time and expertise in organizing this important event.**

Carla Armour  
Meredith Capasse  
Satheesh Chonat, MD  
Shantisa Fulgham  
Gillian Glauber  
Julie Hawk, PhD  
Sarah Marie Huban  
Kymry Jones, PhD  
Shannon Meeks, MD  
Stefan Sarafianos, PhD  
Clovis Sarmiento, MD  
Megan Vallowe, PhD  
Tracy Willoughby  
Jens Wrammert, PhD  
Chunhui Xu, PhD



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## THANK YOU

Thanks to every one of our presenters, attendees, and partners who made this year's event a truly special one!

Please take about five minutes to complete our [Feedback Survey](#).  
We look forward to your input.



We'll see you next year!