



DEVELOPING BRAIN INSTITUTE AT PAS 2025

APR
24-28

HONOLULU, HAWAII

This year, research-scientists affiliated with the Developing Brain Institute at Children's National had nine oral abstracts and 17 posters accepted for the Pediatric Academic Societies (PAS) 2025 meeting. That includes two oral abstracts that scored in the Top 5% of all abstracts submitted to #PAS2025: "Disrupted Motor Networks in Neonates With Complex Congenital Heart Disease," led by Jung-Hoon Kim, Ph.D.; and "Neonatal Hippocampal Volumes Are Associated With Toddler Behavior in Children Born During the COVID-19 Pandemic," led by Susan Weiner, Ph.D.



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<https://developingbrainresearchlab.org/pas-2025/>



FIRST AUTHORS



Nickie Andescavage
M.D.



Kevin M. Cook
Ph.D.



Srikanth Damera
M.D., Ph.D.



Josepheen De Asis-Cruz
M.D., Ph.D.



Diedtra Henderson
BA



Steve C.N. Hui
Ph.D.



Jung-Hoon Kim
Ph.D.



Kristen Kocher
Ph.D.



Catherine
Limperopoulos, Ph.D.



Stephanie L. Merhar
M.D., MS



María G. Mora Álvarez
Ph.D.



Sarah B. Mulkey
M.D., Ph.D.



Katherine M. Ottolini
M.D.



Anola J. Stage
M.D., IBCLC



Susan Weiner
Ph.D.



Yao Wu
Ph.D.



DEVELOPING BRAIN INSTITUTE PAS 2025 PRESENTER SCHEDULE

FRIDAY, APRIL 25

Regan Andringa-Seed/Laura Calderon | 5:30-7:45 p.m. | Location No. 730

Poster: Social and Environmental Influences on the Cognitive and Social-Emotional Developmental Outcomes of Rural and Urban Colombian Children at Early School Age



Srikanth Damera, M.D., Ph.D. | 5:30-7:45 p.m.

| Abstract ID: 1981465 | Location No. 143

Poster: Tensor-Based Morphometry Identifies Impaired Growth of Novel Brain Areas in Fetuses With Congenital Heart Disease



Josepheen De Asis-Cruz, M.D., Ph.D. | 5:30-7:45 p.m.

| Abstract ID: 1979368

Poster: Disrupted Preoperative White Matter Brain Microstructure in Newborns With Complex Congenital Heart Disease



Sarah B. Mulkey, M.D., Ph.D. | 5:30-7:45 p.m. | Location: No. 744

Poster: Neurodevelopmental Outcomes of Colombian Children With Antenatal Zika Virus Exposure at School Age During the COVID-19 Pandemic



Anola J. Stage, M.D., IBCLC | 5:30-7:45 p.m. | Location No. 341

Poster: Altered Maturation Trajectory of Cerebral Metabolites in Preterm Infants

SATURDAY, APRIL 26



Yao Wu, Ph.D. | 7:45-8 a.m. | Abstract ID: 1976339

Oral Abstract: Altered Cerebral Cortical Maturation in Newborns Exposed to Antenatal Opioids



Kevin M. Cook, Ph.D. | 10-10:15 a.m. | Abstract ID: 1969086

Oral Abstract: Experience of Neighborhood Disadvantage Is Associated With Altered Structural Brain Development Even Before Birth



DEVELOPING BRAIN INSTITUTE PAS 2025 PRESENTER SCHEDULE (CONT.)

SATURDAY, APRIL 26 (CONT.)

Caroline Wambach, M.D. | 10:15-10:30 a.m. | Abstract ID: 1977048

Oral Abstract: Prenatal Maternal Psychological Distress and Functional Brain Development in Neonates



María G. Mora Álvarez, Ph.D. | 10:30-10:45 a.m. | Abstract ID: 1975707

Oral Abstract: Disrupted White Matter Microstructure in Newborns With Antenatal Opioid Exposure



Jung-Hoon Kim, Ph.D. | 10:45-11 a.m. | Abstract ID: 1952688

High-Scoring Oral Abstract: Disrupted Motor Networks in Neonates With Complex Congenital Heart Disease



Kristen Kocher, Ph.D./Katherine M. Ottolini, M.D. | 2-2:15 p.m. | Abstract ID: 1984944 | Location: Room 327

Oral abstract: Early Epigenetic Biomarkers of Deaccelerated Aging in Preterm Infants With Extrauterine Growth Failure



Katherine M. Ottolini, M.D. | 2:30-4:45 p.m. | Location No. 669

Poster: Influence of Maternal NICU Visitation on Human Milk Feeding in Preterm Infants



Steve C.N. Hui, Ph.D. | 2:30-4:45 p.m. | Location No. 150

Poster: Brain Metabolite Concentrations in Neonates of Mothers With COVID-19 Exposure During Pregnancy: A Case-Control Study



Diedtra Henderson, BA | 2:30-4:45 p.m. | Abstract ID: 1970651 | Location No. 432

Poster: Mommy&Me: Enrolling Black Moms and Babies in Clinical Research



DEVELOPING BRAIN INSTITUTE PAS 2025 PRESENTER SCHEDULE (CONT.)

SUNDAY, APRIL 27



Stephanie L. Merhar, M.D., MS/Yao Wu, Ph.D.

| 8:30-10:45 a.m. | Location No. 668

Poster: Pharmacologic Treatment for Neonatal Opioid Withdrawal Syndrome (NOWS) Is Associated With Smaller Neonatal Brain Volumes



Josepheen De Asis-Cruz, M.D., Ph.D. | 8:30-10:45 a.m.

| Abstract ID: 1951642 | Location No. 667

Poster: Brain Functional Connectivity Correlates With Neurobehavioral Impairments in Opioid-Exposed Neonates

Manuela Iglesias | 8:30-10:45 a.m. | Location No. 742

Poster: Exploring the Relationship Between Child Opportunity Index and Bayley-III Scores in Young Children



Jung-Hoon Kim, Ph.D. | 8:30-10:45 a.m. | Abstract ID: 1979444 |

Location No. 671

Poster: Optimizing Hyperparameters of U-Net-Based Brain Segmentation Algorithms for Late 2nd and Early 3rd Trimester Fetuses



Josepheen De Asis-Cruz, M.D., Ph.D./Sarah B. Mulkey,

M.D., Ph.D.; Regan Andringa-Seed | 8:30-10:45 a.m.

| Abstract ID: 1977311 | Location No. 676

Poster: Disrupted Ventral Striatal Functional Connectivity in Colombian School-Age Children Exposed in Utero to the Zika Virus



María G. Mora Álvarez, Ph.D./ Sarah B. Mulkey, M.D.,

Ph.D./Regan Andringa-Seed | 8:30-10:45 a.m.

| Abstract ID: 1980851 | Location No. 677

Poster: White Matter Microstructural Disruptions in Zika Virus-Exposed Children Without Congenital Zika Syndrome



DEVELOPING BRAIN INSTITUTE PAS 2025 PRESENTER SCHEDULE (CONT.)

SUNDAY, APRIL 27 (CONT.)

Elizabeth Yen | 8:30-10:45 a.m. | Location No. 666

Poster: Characteristics of Maternal Opioid Use and Early Brain Changes in Offspring



Nickie Andescavage, M.D. | 2:30-2:45 p.m. | Abstract ID: 1985049

Oral Abstract: Impaired Third Trimester Placental Function in Pregnant Women Living With HIV

MONDAY, APRIL 28

Carla M. Bann | 7-9:15 a.m. | Abstract ID: 1958963 | Location No. 054

Poster: Relationship Between Sleep Problems and Social-Emotional Development at 12 Months of Age Among Infants With Antenatal Opioid Exposure and Unexposed Controls

Daniella McCausland | 7-9:15 a.m. | Location No. 063

Poster: Differences in Early Child Neurodevelopment Following Symptomatic and Asymptomatic Maternal SARS-CoV-2 Infection in Pregnancy



**Susan Weiner, Ph.D./Nickie Andescavage, M.D.
| 9:30-9:45 a.m. | Abstract ID: 1985857**

High-Scoring Oral Abstract: Neonatal Hippocampal Volumes Are Associated With Toddler Behavior in Children Born During the COVID-19 Pandemic



Yao Wu, Ph.D. | 9:45-10 a.m. | Abstract ID: 1976391

Oral Abstract: Reduced Brain Volumes in Normocephalic Children With Prenatal Zika Virus Exposure



DEVELOPING BRAIN INSTITUTE PAS 2025 PRESENTERS



**Top 5% of
PAS 2025 abstracts**

	Jung-Hoon Kim, Ph.D. Research Faculty
	Susan Weiner, Ph.D. Research Postdoctoral Fellow

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