JOHNS HOPKINS
MEDICINE

DEPARTMENT OF ANESTHESIOLOGY
AND CRITICAL CARE MEDICINE

25th Annual ACCM Research Day
Category Award Recipients – Block 1

Basic Science 1
1st place: Blanca Rodriguez
Host-derived extracellular vesicles as mediators of neuroinflammation in central nervous system tuberculosis

2nd place: Travis Brady
Functional profiling of resident cells during vascular aging

Basic Neuroscience
1st place: Javier Allende Labastida
The rat CHIMERA model induces sex differences in mortality and behavioral outcomes after repetitive traumatic brain injury

2nd place: Preeti Vyas
Novel neuronal targeted glucose-dendrimer-ketamine conjugate protects against seizures in rodent model of status epilepticus

Clinical & Translational Research 1
1st place: Jeeun Kang
Vector doppler imaging in non-contact laser ultrasound to monitor blood flow

2nd place: Tomonari Fujimori
Alterations in small extracellular vesicle-associated microRNA expression profile associated with postoperative delirium in patients undergoing cardiovascular surgery

Critical Care 1
1st place: Jessica LaRosa
Medical equipment reduces out-of-bed mobility for critically ill children

2nd place: Isabella Blackman
The quest to prevent delirium in critically-ill children: Is there any safe dose of benzodiazepines?

Education & Advancement
1st place: Lisa Young
Trauma-informed care education for anesthesiology residents

2nd place: Morgan Dupree, Jerrica O'Neal, & Sheba Sharifi
Beyond the numbers: valuing the diversity within an early pilot study to improve the minority SRNA experience through CRNA connection

Quality & Systems Improvement
1st place: Aoibhinn Nyhan
Streamlining intake and scheduling of anesthetic services in pediatric patients with special considerations undergoing basic medical procedures

2nd place: Julianna Amorese
Safe early initiation of enteral nutrition for neonates in a pediatric cardiac intensive care unit

*Award winners were selected by category moderators based on significance/science, presentation quality, & content knowledge/Q&A.

25th Annual ACCM Research Day
Category Award Recipients – Block 2

Basic Science 2
1st place: Udeshika Kariyawasam
Hresistin initiates early immune responses through macrophages to activate and proliferate pulmonary smooth muscle cells

2nd place: Diego Almodiel
Dendrimer-Tesaglitazar therapy ameliorates endothelial dysfunction through macrophage targeted PPAR activation

Clinical & Translational Research 2
1st place: Jochen Steppan
LOXL2 plasma concentrations correlate with pulmonary artery pressures in patients undergoing mitral valve surgery

2nd place: Marta Martinez Yus
Effect of menopause on vascular stiffening: LOXL2 as a therapeutic target

Clinical & Translational Research 3
1st place: Yong Zeng
Association between cerebral autoregulation as measured by a novel algorithm and postoperative delirium after cardiac surgery

2nd place: James Sowers
Metabolic markers suggestive of chronic inflammation and altered bioenergetic metabolism in cerebral spinal fluid of patients with cerebral palsy

Critical Care 2
1st Place: Baichuan Jiang
Automatic photoacoustic monitoring of fetal hypoxic-ischemic encephalopathy with deep learning: an in-vivo piglet study

2nd place: Ananya Tandri
Modular photoacoustic helmet for neonatal neurocritical care

Global Health
1st Place (tie): Justine Lewis
Impact of anesthesiology interest groups for medical students in West African countries

1st Place (tie): Promise Ariyo
Development, implementation, and evaluation of a rapid response system at a Nigerian teaching hospital, a novel idea in Sub-Saharan Africa

2nd place: Imaobong Chinedozi
Assessing the impact of oxygen implementation: a comparative study in The Gambia

Pediatric Science
1st Place: Kathleen Lac
Glial targeted dendrimer-based therapy of 6-Diazo-5-Oxo-L-Norleucine as a therapeutic treatment for Rett Syndrome in methyl-CpG-binding protein-2-deficient mice

2nd place: Preeti Vyas
Dendrimer conjugated Ketamine as a glial targeted therapy for Rett syndrome

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