

## 7th Seattle Children's and Microsoft SIDS Research Summit – March 27-28, 2024

<b>Day One: Wednesday, March 27th</b>		
<b>7:30 - 8:15</b>	<b>Breakfast</b>	
8:15 – 8:20	Welcome to the SIDS Summit! Introduction and Overview	John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's
8:20 – 8:30	Integrated approach to SIDS research	Jan-Marino (Nino) Ramirez, PhD, Director, Center for Integrative Brain Research (CIBR) at Seattle Children's Research Institute
<b>Session 1: Infant Mortality</b>		
8:30 – 9:30	The English National Child Mortality Database : The first 5 years of detailed real time information on all child deaths	Peter Fleming, MD, PhD, University of Bristol, UK
9:30 – 9:50	Risk factors for sudden unexpected infant death (SUID): a case series	Ricardo Erazo-Toscano, PhD, Seattle Children's Research Institute
<b>9:50 – 10:10</b>	<b>Break</b>	
10:10 – 10:30	Maternal obesity and risk for sudden unexpected infant death	Darren Tanner, PhD, AI for Good Research Lab, Microsoft
10:30 – 10:50	Developmental tractography analysis of the neurotypical ascending arousal network in fetuses and infants as baseline for abnormality identification in SIDS	Roxane Licandro, PhD, Medical University of Vienna
10:50 – 11:10	Vaping and SIDS: The developing Story	Barbara M. Ostfeld, PhD, Department of Pediatrics Program Director, SIDS Center of New Jersey, Rutgers Medical School
11:10 – 11:30	Surveillance and Prevention of Sudden Unexpected Infant Deaths in the United States, 2018-2023	Kathleen Ly, MPH, and Renee De Shay, MPH, Centers for Disease Control and Prevention
<b>11:30 – 12:30</b>	<b>Lunch</b>	
<b>Session 2: Promoting Safe Infant Care Awareness</b>		
12:30 – 12:50	Cops and Cribs Program: Training for law enforcement around safe sleep	Deborah Robinson, CEO, SUID Investigations WA State Criminal Justice Training Commission, SUID investigations, Contract instructor
12:50 – 13:10	How to create low-cost custom video content for disseminating Safe Sleep recommendations to different population groups	Allegra Bonomi, President, Semi per la SIDS ONLUS, The Italian Parents Association
13:10 – 13:30	The Importance of Neighborhood Resources for Breastfeeding	Fern Hauck, MD, MS, University of Virginia School of Medicine
13:30 – 13:50	Video education to improve safe sleep and breastfeeding practices	Rachel Moon, MD, University of Virginia School of Medicine
13:50 – 14:10	Bridging the Gap: Community Insights on Safe Sleep Practices and Implementation Barriers	Alison Jacobson, CEO, First Candle
<b>14:10 – 14:30</b>	<b>Break</b>	
<b>Session 3: Insights into the Physiological and Pathological Determinants of SUID Part 1</b>		
14:30 – 14:50	The ear and the brainstem: is there an infection connection?	Professor Marta Cohen OBE, MD, FRCPath, DMJ (Pathol), Dip Med Ed, Sheffield Children's, UK
14:50 – 15:10	Unravelling the risk factor of prone sleep position	Paul Goldwater, MD, MBBS, FRACP, FRCPA, Adelaide Medical School, University of Adelaide, SA
15:10 – 15:30	Do infants found in the Prone sleeping position have altered neuropathological findings?	Rita Machaalani, PhD, University of Sydney, NSW
15:30 – 15:50	Effects of upregulated Interleukin-6 (IL-6) on Reelin Expression and Dentate Gyrus morphology in the Murine Hippocampus, and implications for SIDS	Vanessa Despotovski, PhD candidate, University of Sydney, NSW
15:50 – 16:10	Factors affecting expression of GFAP in the infant brain, and differences according to SIDS classification	Lauren Luijterink, PhD, University of Sydney, NSW
16:10 – 16:30	Multiplex Cytokine Analysis in SIDS to Define Inflammatory Subsets	Robin Haynes, PhD, and Boston Children's Hospital, Harvard Medical School
16:30 – 16:50	Evidence of a serotonopathy in SIDS: linking the human and animal data	Kevin Cummings, PhD, University of Missouri

This Summit is hosted by Dr. Nino Ramirez, Director of the Center for Integrative Brain Research, Seattle Children's, John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's, and Juan Lavista, Corporate Vice President and Chief Data Scientist, AI for Good Research Lab, Microsoft.  
Washington state physicians can claim category 2 CME for attending this event. All others, please check with your state licensing boards.

## 7th Seattle Children's and Microsoft SIDS Research Summit – March 27-28, 2024

Day Two: Thursday, March 28th		
Session 4: Insights into the Physiological and Pathological Determinants of SUID Part 2		
<b>7:30 – 8:00</b>	<b>Breakfast</b>	
8:00 – 8:20	Inflammation in SIDS	Torleiv Ole Rognum, MD, PhD, University of Oslo
8:20 – 8:40	Hispanic infants, SUID, and Working Assumptions	Richard Goldstein, MD, Boston Children's Hospital, Harvard Medical School
8:40 – 9:00	What's in a Name? Building Bridges Around SIDS and SUID Terminology	Melissa Blessing, DO, Texas Children's Hospital and Baylor College of Medicine
9:00 – 9:20	Use of optical genome mapping in SUDP	Catherine Brownstein, PhD, MPH, Boston Children's Hospital, Harvard Medical School
9:20 – 9:40	SUID and SDY Genomes: Results and Resources	Meghan Faulkner, MA, Michigan Public Health Institute and Megan J. Puckelwartz, PhD, Northwestern Univ, Feinberg School of Medicine
<b>9:40 – 10:00</b>	<b>Break</b>	
10:00 – 10:10	The Seattle Initiative	Jan-Marino (Nino) Ramirez, PhD, Director, Center for Integrative Brain Research (CIBR) at Seattle Children's Research Institute
10:10 – 10:20	AI for Good	Juan Lavista, Corporate Vice President and Chief Data Scientist, AI for Good Research Lab, Microsoft
10:20 – 10:40	Empowering Genomics Data Analysis for SIDS with Azure AI services	Erdal Cosgun, PhD, Data Scientist, Microsoft
10:40 – 11:00	SIDS prediction and insights using polygenic risk scores	Lindsay Clark, PhD, Seattle Children's Research Institute
Session 5: Animal Models Part 1		
11:00 – 11:20	Single nuclei RNA-Sequencing to study the consequences of chronic intermittent hypoxia	Hema Bhagavan, PhD, Seattle Children's Research Institute
11:20 – 11:40	An overview of the circuitry involved in arousal and breathing	Luiz Oliveira, PhD, Seattle Children's Research Institute
11:40 – 12:00	The Importance of Chemoreception in Sudden Infant Death Syndrome (SIDS)	Thiago Moreira, PhD, Seattle Children's Research Institute
12:00 – 12:20	The central control of swallow-breathing coordination and the clinical implications for neurological disorders including SIDS	Alyssa Huff, PhD, Seattle Children's Research Institute
<b>12:20 – 13:20</b>	<b>Lunch</b>	
Session 6: Animal Models Part 2		
13:20 – 13:40	A brief overview of the BCM Center for Cardio-Respiratory Physiomics and Isabella Davis Center for Safe Children	Russell Ray, PhD, Baylor College of Medicine
13:40 – 14:00	Building an Autoresuscitation Reflex Pipeline	Christopher Ward, PhD, Baylor College of Medicine
14:00 – 14:20	Lack of mu opioid receptor 1 produces an enhanced vulnerability to autoresuscitation dysfunction: Novel findings for Sudden Infant Death Syndrome and Neonatal Opioid Withdrawal Syndrome	Nicoletta Memos, PhD, Baylor College of Medicine
14:20 – 14:40	Loss of Htr1B leads to a failure in the neonate autoresuscitation reflex - Implications for Sudden Infant Death Syndrome	Dipak Patel, PhD candidate, Baylor College of Medicine
14:40 – 15:00	Integration of child death review and genetic engineering for improved rodent modeling of SIDS	Savannah Lusk, PhD, Baylor College of Medicine
<b>15:00 – 15:20</b>	<b>Break</b>	
Session 7: SIDS, SUDEP and Broader Research Implications		
15:20 – 15:40	SUDEP in the area of precision medicine	Franck Kalume, PhD, Seattle Children's Research Institute
15:40 – 16:00	Phox2b-expressing neurons contribute to breathing problems in Kcnq2 loss-and gain-of-function models of developmental encephalopathy	Dan Mulkey, PhD, University of Connecticut
16:00 – 16:20	Disordered breathing across development in a Scn1a haploinsufficient model of Dravet Syndrome	Brenda Milla, PhD candidate, University of Connecticut
16:20 – 16:40	Biomechanics of Infants within Seated Products	Erin Mannen, PhD, Boise State University
<b>16:40 - 16:50</b>	<b>Closing Remarks</b>	
		John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's and Nino Ramirez, PhD, Seattle Children's Research Institute

This Summit is hosted by Dr. Nino Ramirez, Director of the Center for Integrative Brain Research, Seattle Children's, John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's, and Juan Lavista, Corporate Vice President and Chief Data Scientist, AI for Good Research Lab, Microsoft. Washington state physicians can claim category 2 CME for attending this event. All others, please check with your state licensing boards.