**KEYSTONE SYMPOSIA**
on Molecular and Cellular Biology

**Optimizing Nutrition for Maternal, Newborn and Child Health (S7)**

**October 21-24, 2020 • Le Meridien New Delhi • New Delhi, India**

**Scientific Organizers: Emily Smith, Anura Kurpad and Farhad Imam**

*Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation*

Global Health Travel Award Deadline: May 19, 2020 / Scholarship Deadline: July 8, 2020 / Abstract Deadline: July 21, 2020 / Discounted Registration Deadline: August 20, 2020

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**WEDNESDAY, OCTOBER 21**

Arrival and Registration

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**THURSDAY, OCTOBER 22**

Welcome and Keynote Address

**Rajiv Bahl,** World Health Organization, Switzerland

*Global Maternal, Fetal, and Newborn Nutrition: The Challenges and Opportunities*

Maternal (Intrauterine) Nutrition and Fetal Growth

**Emily R. Smith,** George Washington University, USA

*Maternal Nutrition, Gestational Weight Gain, and Adverse Birth Outcomes*

**Yoel Sadowsky,** Magee-Womens Research Institute, USA

*Placental Response to Injury, Extracellular Vesicles, and Pregnancy Health*

**Shinjini Bhatnagar,** Translational Health Science and Technology Institute, India

*Genomic, Epigenomic, Proteomic, and Microbial Correlates of Preterm Birth in India*

Short Talks Chosen from Abstracts

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**Workshop 1**

Short Talks Chosen from Abstracts

**Human Breastmilk: What's in It? How Does It Affect Infant Health?**

**Lindsay H. Allen,** USDA, ARS, USA

*What’s Normal? Global Reference Values for Human Milk (MILQ Study)*

Speaker to be Announced

**Alicia-Jane Twigger,** University of Cambridge, UK

*Novel Methods for Characterizing Human Milk (Development of a Mammary Organoid for Human Lactation Research; Characterizing Breastmilk using a Single Cell RNA Approach)*

Short Talks Chosen from Abstracts

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**Workshop 2**

Short Talks Chosen from Abstracts

Innovative Breastmilk Supplements for Newborns

**Farhad B. Imam,** Bill & Melinda Gates Foundation, USA

*Potential Benefits and Risks of Breastmilk Supplement in the Global Health Context*

**Daniel Roth**, Hospital for Sick Children / University of Toronto, Canada

*Symbiotics for Preventing Newborn Sepsis*

**David J. Kyle**, Evolve BioSystems, USA

*Synbiotics for Preventing Newborn Sepsis*

Short Talks Chosen from Abstracts

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**FRIDAY, OCTOBER 23**

Feeding Vulnerable Infants: Considerations for Preterm and Low Birthweight Newborns

**Katherine E. Semrau,** Brigham and Women's Hospital, USA

*Feeding Vulnerable Infants - Global Evidence, Policy, and a Call to Action*

**Paula P. Meier,** Rush University, USA

*Health and Nutrition Impacts of Donor Human Milk for Vulnerable Infants: Implications for Low- and Middle-Income Countries*

**Valerie Flaherman,** University of California, San Francisco, USA

*Feeding Vulnerable Newborns to Preventing Stunting and Wasting During Infancy and Beyond*

**Martha Mwangome,** KEMRI – Wellcome Trust, Kenya

*The Role of Breastmilk in Treatment of Severe Acute Malnutrition in Infants Aged Below 6 Months*

Short Talks Chosen from Abstracts

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**SATURDAY, OCTOBER 24**

Optimal Nutrition Older Infants and Young Children

**Seth Adu-Afarwuah,** University of Ghana, Legon, Ghana

*Lipid Nutrient Supplements (LNS) – Who Benefits? Big Data for Precision Public Health*

**Christine P. Stewart,** University of California, Davis, USA

*Eggs and Egg Products as Complementary Food for Growth*

**Anura V. Kurpad,** St. John's Research Institute, India

*Amino Acid Digestibility*

**Christopher Sudfeld,** Harvard T.H. Chan School of Public Health, USA

*Neurocognitive Benefits of Childhood Nutrition Interventions*

Short Talks Chosen from Abstracts

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**Microbiome-Nutrient Interactions**

**Mohit Jain,** University of California, San Diego, USA

*Microbiome-Metabolome Interactions in Health and Disease*

**Balakrishnan Siddartha Ramakrishna,** SRM Institutes for Medical Science, India

*Iron Supplementation in Pregnancy and the Gut Microbiome*

**Buffy Stahl,** DuPont, USA

*Landscape of Microbial Products and Therapeutics (L. Plantarum, etc)*

**Tahmeed Ahmed,** ICDDR,B, Bangladesh

*Microbiota Directed Complementary Foods for the Treatment of Childhood Malnutrition*

Short Talks Chosen from Abstracts

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**Cutting Edge Clinical Trial Results**

**Nita Bhandari,** Society for Applied Studies, India

*Women and Infants Integrated Growth Study (WINGS): Early Observations*

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* Session Chair † Invited but not yet accepted  Program current as of March 13, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.*
Yasir Shafiq, Aga Khan University, Pakistan
Results from the Vital Trial

Anne Shee CC Lee, Brigham and Women’s Hospital, Harvard Medical School, USA
Baseline Findings from the Enhancing Nutrition and Antenatal Infection Treatment (ENAT) study in Amhara, Ethiopia

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

SUNDAY, OCTOBER 25

Departure