



Venue: Open Gates, 2419 Sealy Avenue, Galveston, TX 77555

7.00 – 8.00 Breakfast at the Grand Galvez Hotel
8.00 – 8.15 Galvez to Open Gates Shuttles

Monday, October 17, 2022

8.30 – 8.40 **Welcome address**
Elizabeth Bonney, MD, PREBIC President

8.40-8.50 **PREBIC NA - Presidential Address**
Amy Murtha, MD
Dean, Robert Wood Johnson Medical School
Professor, Obstetrics and Gynecology, New Brunswick, NJ

8.50-9.00 **Program and housekeeping announcements**
Drs. Lauren Richardson and Brandie Taylor
PREBIC NA organizers
The University of Texas Medical Branch at Galveston, TX

Session # 1

Moderators **Rachel Tribe, PhD & Bo Jacobsson, MD, PhD**

9.00 -9.20 **“Integrating social frameworks to promote equity in preterm birth research”**
Ashley V. Hill DrPH, MPH
Assistant Professor, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA

9.20-9.40 **“Leveraging millions of electronic health records to quantify preterm birth risk and heterogeneity”**
Tony Capra, PhD
Associate Professor, Bakar Computational Health Sciences Institute,
University of California San Francisco, CA
(Via ZOOM)

9.40-10.00 **“Inflammation prior to Microbial Invasion of the Amniotic Cavity in an NHP model of Ureaplasma Intrauterine Infection”**
Meredith A. Kelleher, PhD

Assistant Professor, Division of Reproductive & Developmental Sciences
Oregon National Primate Research Center, Oregon Health & Science University, Portland, OR

10.00-10.20 **'Studying the initiation of inflammation in the human fetal membranes in normal pregnancy: Will this approach help us to understand it in preterm birth?'**

Claire Kendal-Wright, PhD

Associate Professor of Biology, Senior Director of the Office of Sponsored Programs
Chaminade University of Honolulu, School of Natural Sciences and Mathematics
Honolulu, HI

10.20 – 10.40 **Discussion (all session # 1 speakers)**

10.40- 11.00 Coffee Break

Session # 2

Moderators Egle Prewit, MD, PhD & Marian Kacerovsky, MD, PhD

11.00 – 11.20 **"Exosome-based therapeutics for Placental Inflammation and Preterm Birth in Rodent and Non-Human Primate Models"**

Chulhee Choi, MD, PhD

C.E.O., ILIAS Biologics Incorporated, Daejeon, Korea

11.20-11.40 **"Seeking Approval for Preterm Birth Drug Therapy: Can We Overcome the Challenges?"**

Sandra Reznik, MD, PhD

Professor, Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, St. John's University, Jamaica, NY

Young investigator Presentation

11.40- 11.50 **"Zika virus and the trophoblast: Tug-of-War between viral infection and cellular rescue".**

Rafael Tomoya Michita, PhD

Postdoctoral Research Associate, Laboratory of Prof. Indira Mysorekar, Department of Medicine, Baylor College of Medicine, Houston, TX

11.50-12.00 **'Arrest of mouse preterm labor until term delivery by combination therapy with atosiban and mundulone, a natural product with tocolytic efficacy'**

Shajila Siricilla, PhD

Research Fellow, Department of Pediatric Neonatology, Vanderbilt University Medical Center, Nashville, TN, USA

12.00-12.10 **"SARS CoV2 in the placenta: Disrupting placental homeostasis"**

Deepak Kumar, PhD

Postdoctoral Research Associate, Laboratory of Prof. Indira Mysorekar, Department of Medicine, Baylor College of Medicine, Houston, TX

12.10-12.20 **"Everything, from Everywhere, All at Once: The Potential Role of Human Placenta-derived Bacterial Outer Membrane Vesicles in the Training of Fetal Immunity"**

Manuel S. Vidal, Jr.

MD, PhD Student, University of the Philippines Manila - College of Medicine, Manila, Visiting Pre-doctoral Research Fellow, University of Texas Medical Branch, Galveston, TX

12.20 – 12.40 **Discussion (All session # 2 speakers)**

12.40 – 12.45 Young Investigator meeting - Announcement

Egle Prewit, MD, PhD

Dept of OBGYN, University of Texas Health San Antonio, TX

12.45-1.45 Lunch

1.45- 1.50

Introducing new journal - Placenta and Reproductive Medicine

Nanbert Zhong, MD, PhD, PREBIC Executive Council Member

1.50-2.00

Announcing working groups and expectations

Sam Mesiano, PREBIC Secretary/Treasurer

2.00 – 3.15

Working groups meet

3.15-3.30

Coffee break

3.30-5.00

Working groups meet

5.005 – 6.00

Wine & Cheese reception

6.00 – 6.15

Shuttles from Open Gates to Grand Galvez Hotel

END OF DAY # 1

Tuesday, October 18, 2022

Venue: Open Gates, 2419 Sealy Avenue, Galveston, TX 77555

7.00 – 8.00

Breakfast at the Grand Galvez Hotel

8.00 – 8.15

Galvez to Open Gates Shuttles

Session # 3

Moderators

Laura, Goetzl, MD & Leslie Myatt, Ph.D.

8.30-8.50

“The IL-1 system in pregnancy complications: what’s missing for therapeutic intervention”

Sylvie Girard, PhD

Dept of Obstetrics & Gynecology; Dept of Immunology, Mayo Clinic, MN

8.50 -9.20

“RNA profiles reveal signatures of future health and disease in pregnancy”

Morten Rasmussen, PhD

Head of Research, Mirvie, South San Francisco, CA

9.20-9.40

“Elucidating the role of prolactin in the onset of human labor”

Claudia Verónica Zaga Clavellina, PhD

Department of Cellular Physiology, Institute of National Perinatology, Lomas Virreyes, Mexico

9.40-10.00

“Dietary Patterns in Pregnancy and Perinatal Health”

Stefanie N. Hinkle, PhD

Assistant Professor, Department of Biostatistics, Epidemiology and Informatics
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

10.00 – 10.20

“Preterm Birth: NICHD research priorities.

Nahida Chakhtoura, MD MsGH

Chief, Pregnancy and Perinatology Branch, Eunice Kennedy Shriver, National Institute of Child Health and Human Development, Bethesda, MD ([Via ZOOM](#))

10.20 – 10.40

Discussion (All session # 3 speakers)

10.40-11.00

Coffee Break

Session # 4

Moderators

Mehmet Genc, MD, PhD & Lauren Richardson, PhD

11.00 – 11.20

“The Burroughs Wellcome Fund and Perinatal Research: Mission, Priorities, and Opportunities”

Louis J. Muglia, MD, PhD

President and CEO, Burroughs Wellcome Fund ([Via ZOOM](#))

11.20 – 11.40

“Myometrial Myocyte-Macrophage Crosstalk and Myometrial Contraction during Labour: new Insights and Mechanisms of Regulation”

Oksana Shynlova, PhD

Associate Professor, Departments of OBGYN and Physiology, University of Toronto, Research Scientist, Lunenfeld-Tanenbaum Research Institute at Mount Sinai Hospital, Toronto, ON

11.40 – 12.10

Young investigator Forum

11.40-11.50

“Role of the Fetal Membranes in the Control of Parturition”

Angela DeTomaso

PhD student, Case Western Reserve University, Cleveland, OH

11.50 – 12.00

“Modeling an ascending infection by *Ureaplasma parvum* and its inflammatory and cell signaling response at the feto-maternal interface”

Giovana Fernanda Cosi Bento

5th Year PhD student, Department of Pathology, The Universidade Estadual Paulista (Unesp), Botucatu, Brazil, & Dept of OBGYN, The University of Texas Medical Branch

12.00-12.10

“Spatial profiling of immune markers within the Chorioamniotic membranes during an experimental Group B *Streptococcus* infection in a nonhuman primate model”

Gygeria Manuel

Graduate Student, University of Washington and Morehouse School of Medicine, Seattle, WA

12.10-12.35

Discussion (All session # 4 speakers)

- 12.35-12.45** **PREBIC NA Group Photo**
- 12.45-1.45** **Lunch**
- 1.45 – 3.15 Working groups meet
- 3.15-3.30** **Coffee break**
- 3.30-5.00 Working groups meet
- 5.00 – 5.15 Shuttles from Open Gates to Grand Galvez Hotel

END OF DAY # 2

Wednesday, October 19, 2022

Venue: Open Gates, 2419 Sealy Avenue, Galveston, TX 77555

- 7.00 – 8.00 Breakfast at the Grand Galvez Hotel
- 8.00 – 8.15 Galvez to Open Gates Shuttles

Section # 5

Moderators **Steve Yellon, PhD, Donna Russel,**

8.30 – 9.00 **“Opportunities and Dead-Ends in Preterm Labor: A Clinical Perspective”**

George Saade, MD

Professor, Division Chief, Maternal-Fetal Medicine, The University of Texas Medical Branch at Galveston, TX

9.00 – 9.30 **Preterm Birth Therapeutics: Next Steps**

Kristina Adams-Waldorf, MD

Professor, Dept of OBGYN and Global Health, University of Washington School of Medicine, Seattle, WA

9.30-9.45 Discussion

9.30-9.45 **Summary and future directions**

Scott Williams, PhD

9.45 – 10.45 Working group summary reporting

10.45 – 11.00 PREBIC business

Elizabeth Bonney, MD

President, PREBIC Global

PREBIC NA leadership announcement & Future plans

11.00 Closing Remarks - New Chairperson

Conference adjourns

11.00 **Pickup Box lunches**

11.00 – 11.15 Open Gates Shuttles to Galvez

Working groups

1. Integrative physiology of pregnancy and pathways of parturition

Facilitators - S Mesiano and Helen Jones (sam.mesiano@case.edu; Jonesh@ufl.edu)

2. Epidemiology and Defining phenotypes of preterm birth

Facilitators – Brandie D Taylor and Scott M Williams (smw154@case.edu; bradtayl@utmb.edu)

3. Biomarkers of preterm birth and necessity for high-risk screening

Facilitators – Thomas F McElrath/Michael Gravett (tmcelrath@bwh.harvard.edu; gravettm@uw.edu)

4. Clinical interventions and commercialization

Facilitators – Sandra Reznik and Kristina Adams Waldorf (adamsk@uw.edu; rezniks@stjohns.edu)

5. Nutrition and environment

Facilitators - Egle Prewit and Liping Feng (prewite@uthsca.edu ; feng0007@mc.duke.edu)

6. Disparity in Preterm birth

Facilitator – Elizabeth Bonney (elizabeth.bonney@med.uvm.edu)