Hosted By: The University of Texas MD Anderson Cancer Center

The Onstead Auditorium

6550 Bertner Ave; Houston, Texas 77030

April 21 – 22, 2016
ACKNOWLEDGEMENTS

The Texas Forum for Reproductive Sciences (TFRS) was established in 1995 to encourage the exchange of the scientific knowledge and collaborations among scientists in Texas in the area of female reproduction. Several years later, this cooperative group included male reproduction and began an all-inclusive Forum for Reproductive Sciences. The 22nd Annual TFRS meeting is being held at the University of Texas M.D. Anderson Cancer Center, Texas Medical Center, Houston, Texas and we greatly appreciate the provision of facilities for the meeting by this institution.

We would like to thank Drs. Marie-Claude Hofmann and Chandra Yallampalli for organizing this meeting. A special thank you is extended to Greg Johnson who continues to give us a wide variety of artistic and scientific t-shirts, and for designing and ordering this year’s t-shirts.

We thank Sandra Dale and Uma Yallampalli for their major contributions through organization of registration, abstracts, name badges and programs. Without their arduous hours of effort, this meeting would not be possible.

We thank the Department of Obstetrics and Gynecology for printing the programs and the Center for Reproductive Medicine, Baylor College of Medicine, for hosting the website. We also thank the TFRS Steering Committee for all of their time and effort in continuing the spirit of TFRS and in coordinating this year’s meeting. These members include Diego Castrillon (UTSW), Brian Hermann (UTSA), Greg Johnson (TAMU), Dolores Lamb (BCM), Qinglei Li (TAMU), Mala Mahendroo (UTSW), John McCarrey (UTSA), Joanne Richards (BCM), Ingatia Van den Veyver (BCM), Chandra Yallampalli (BCM), Austin Cooney (DMS), Shaye Lewis (PVAM), Marie-Claude Hofmann (MD Anderson) and Gary Newton (PVAM).

A special thank you goes to our judges. Platform Judges include: Dolores Lamb (BCM), Joanne Richards (BCM), Fuller Bazer (TAMU), Carole Mendelson (UTSW). Poster Judges include: Brian Hermann (UTSA), Greg Johnson (TAMU), Qinglei Li (TAMU), Mala Mahendroo (UTSW), Austin Cooney (DMS), Thomas Garcia (UofH), Gunapal Shetty (MD Anderson), Alexander Pastuszak (BCM), Gary Newton (PVAM). We would also like to thank our Platform Moderators: Parag Parekh (MD Anderson), Meade Haller (BCM), Diana Monsivais (BCM), Heewon Seo (TAMU), Matthew Louis (BCM), Sudeshna Tripathy (Southwestern), Alyssa Miller (TAMU) and Jacob Brown (TAMU).

Marie-Claude Hofmann, 2016 TFRS Meeting Chairperson

Chandra Yallampalli, 2016 TFRS Meeting Organizer
22nd ANNUAL TEXAS FORUM FOR REPRODUCTIVE SCIENCES

April 21 – 22, 2016
Hosted by: The University of Texas M.D. Anderson Cancer Center
The Onstead Auditorium
6550 Bertner Ave; Houston, Texas 77030

Thursday, April 21, 2016

12:00 P.M.  On-Site Registration (50.00) – Onstead Auditorium, University of Texas M.D. Anderson Cancer Center

1:00 P.M.  Opening Remarks - Onstead Auditorium, Marie-Claude Hofmann and Chandra Yallampalli
Welcome - Professor Steve I. Sherman, Chair, Department of Endocrine Neoplasia and Hormonal Disorders, Division of Internal Medicine, MD Anderson Cancer Center

1:15 P.M.  Plenary Speaker I: “Molecular Mechanisms of Estrogen Signaling”
W. Lee Kraus, Ph.D.
University of Texas Southwestern Medical Center

2:15 P.M.  Platform Session I:
Moderators: Parag Parekh (MD Anderson) and Meade Haller (BCM)

2:20 P.M.  “TSPAN8 Distinguishes Spermatogonial Stem Cells from Progenitor Spermatogonia”
Brian P. Hermann
Department of Biology, University of Texas at San Antonio, San Antonio, Texas

2:35 P.M.  “Effect of Cabozantinib on HGF-MET Signaling in the Testis”
Thomas Garcia
Department of Biology/Natural Sciences, University of Houston-Clear Lake, Houston, Texas

2:50 P.M.  “Karyotype and Y-Chromosome Microdeletion for Men with Testicular Failure: Subsequently or Simultaneously? A Cost-Effective Analysis”
Taylor Kohn
Baylor College of Medicine, Houston, Texas

3:05 P.M.  “A Defect at the Mitotic: Meiotic Switch Contributes to Testicular Germ Cell Tumorigenesis”
Emily Dawson
Department of Molecular & Human Genetics, Baylor College of Medicine, Houston, Texas

3:20 P.M.  Break and Refreshments

3:45 P.M.  Platform Session II
Moderators: Diana Monsivais (BCM) and Heewon Seo (TAMU)
3:50 P.M.  “Control of Primordial Oocyte Reawakening by Kit”
Hatice Saatcioglu
Department of Pathology and Cecil H. and Ida Green Center for Reproductive Biology Sciences,
UT Southwestern Medical Center, Dallas, TX

4:05 P.M.  “Protein Restriction and the Oocyte: Effects on Amino Acid Kinetics and Mitochondrial
Structure and Function”
Amy Schutt
Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, Texas

4:20 P.M.  “Conditional Depletion of the Hedgehog Pathway Regulator Patched1 by S1004a4 Promoter-
Driven Cre Recombinase Impairs Ovarian and Pituitary Functions and Fertility in Female Mice”
Yi Athena Ren
Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, Texas

4:35 P.M.  “In Vivo High-Resolution Imaging of Reproductive Events and Ciliary Behavior in the Mouse
Oviduct”
Irina V. Larina
Department of Molecular Physiology and Biophysics, Baylor College of Medicine, Houston,
Texas

4:50 P.M.  “Uterine Activation-Like Kinase 4 Regulates Trophoblast Development During Mouse
Placentation”
Paul Fullerton
Department of Pathology and Immunology, Baylor College of Medicine, Houston, Texas

5:00 P.M.  “Effects of Agmatine on Ovine Trophectoderm Cells for Production of Interferon Tau and
Catecholamines, and Expression of Genes Related to Production of Polyamines”
Yasser Y. Lenis
Department of Animal Science, Ctr. for Animal Biotechnology & Genomics, Texas A&M
University, College Station, Texas

5:15 P.M.  Poster Session

7:00 P.M.  Social Dinner: Armadillo Palace, 5015 Kirby Drive, Houston, Texas 77098
Friday, April 22, 2016

7:00 A.M. Breakfast-Responsibility of Attendee

7:55 A.M. Platform Session III
Moderators: Matthew Louis (BCM) and Sudeshna Tripathy (Southwestern)

8:00 A.M. “NELL1: A Genetic Factor Predisposing to Fibrosis Associated with Peyronie’s Disease”
Alexander W. Pastuszak
Center for Reproductive Medicine and Scott Department of Urology, Baylor College of Medicine, Houston, Texas

8:15 A.M. “Osterix is a Novel Regulator of Male Reproductive Tract Differentiation”
Rachel D. Mullen
Department of Genetics, University of MD Anderson Cancer Center, Houston, Texas

8:30 A.M. “Is CD73’s Protection of the Epithelial Barrier Promoting Tumor Imunosuppression in Endometrial Carcinoma?”
Jessica L. Bowser
Department of Translational Molecular Pathology, The University of Texas MD Anderson Cancer Center, Houston, Texas

8:45 A.M. “C-Terminal Binding Protein 1 (CtBP1) and GATAD2B Serve As Novel Mediators of Progesterone/PR Supression of Proinflammatory and Contactile Genes in the Pregnant Myometrium”
Imran Hussain
Department of Biochemistry, UT Southwestern Medical Center, Dallas, Texas

9:00 A.M. “Novel Observations on the Relationship Between Fetal Synthesis and Placental Clearance of Cytokines During Parturition and Chorioamnionitis (Chorio) at Term Gestation”
Imran Mir
Department of Neonatal-Perinatal Medicine, UT Southwestern Medical Center, Dallas, Texas

9:15 A.M. “Blunted Ghrelin Signaling in Pancreatic Islets of Pregnant Rats Fed a Low Protein Diet”
Haijun Gao
Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, Texas

9:30 A.M. Break and Refreshments

9:55 A.M. Platform Session IV
Moderators: Alyssa Miller (TAMU) and Jacob Brown (TAMU)

10:00 A.M. “Testosterone Impairs Placental Vascularization and Oxygenation, Reduces Uterine Blood Flow and Triggers Sex-Specific Placental Gene Expression in Pregnant Rats”
Kathirvel Gopalakrishnan
Department of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston, Texas
10:15 A.M.  “Impact of Gestational Diabetes on Long-Term Maternal Health Using a Mouse Model”
Kathleen A. Pennington
Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, Texas

10:30 A.M.  “Pre and Perinatal Fluoxetine (FLX) Exposure of Shank3<sup>ex4-9</sup> Mutant and WT Mice Affects Neurobehavior In Offspring And Indicates Gene-Environment (GXE) Interaction”
Jaclyn B. Murry
Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, Texas

10:45 A.M.  “Epigenetic Changes Associated with In Utero Nicotine Exposure in the Rhesus Macaque”
Stephen M. Saylor
Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, Texas

11:00 A.M.  Plenary Speaker II: “Transplantation of Immune Privileged Sertoli Cells: More Than Just Testicular Nurse Cells”
Jannette M. Dufour
Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, Texas

12:00 P.M.  Presentation of Awards and Concluding Remarks

12:30 P.M.  Meeting Adjourns

12:45 P.M.  Executive Meeting
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Abstracts can be accessed at:


Notes:
MD Anderson, Onstead Auditorium

6550 Bertner Ave, Houston, Texas 77030

Goode’s Armadillo Palace

5015 Kirby Drive, Houston, Texas 77098

From: 6550 Bertner Ave, Houston, TX 77030
Head southwest on Bertner Ave toward Wilkins St
0.3 mi
Turn right onto Holcombe Blvd
1.1 mi
Turn right onto Kirby Dr
Destination will be on the right
1.5 mi