

Women's Reproductive Health Research Career Development Centers  
National Institute of Child Health and Human Development  
National Institutes of Health  
U.S. Department of Health and Human Services

## **WRHR SCHOLARS' RESEARCH SYMPOSIUM**

Lister Hill Center Auditorium  
National Institutes of Health  
Bethesda, Maryland

March 31 - April 1, 2003

### **AGENDA**

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#### ***Monday, March 31, 2003***

7:00 am Registration

8:00 am Welcome and Opening Remarks  
*Estella C. Parrott, M.D., M.P.H., NICHD*  
*Duane Alexander, M.D., Director, NICHD*  
*Florence Haseltine, Ph.D., M.D., NICHD*  
*Edward L. Trimble, M.D., M.P.H., NCI*  
*Vivian W. Pinn, M.D., ORWH*

#### **Session I: Gynecologic-Oncology**

*Moderator: Ronald S. Gibbs, M.D., University of Colorado Health Sciences Center*

8:30 am Ovarian Cancer Over Expressed 1(OVCOV1) Protein is Differentially Expressed in Ovarian Cancer  
*Richard E. Leach, M.D., Wayne State University School of Medicine*

8:50 am A Pilot Study of Ovarian Cancer Chemoprevention Using Medroxyprogesterone Acetate in an Avian Model of Spontaneous Ovarian Carcinogenesis  
*Mack N. Barnes M.D., University of Alabama at Birmingham*

9:10 am Clusterin and Ovarian Cancer: Associations with Paclitaxel Resistance and Recurrent Disease  
*Christina A. Bandera, M.D., Brigham and Women's Hospital, Harvard Medical School*

9:30 am      The Identification and Characterization of Novel Diagnostic Predictors of Outcome in Ovarian Cancer  
*Robin Farias-Eisner, M.D., Ph.D., University of California, Los Angeles*

9:50 am      Molecular Profiling of Cervical Carcinoma, Over-Expression in Extracellular Matrix Genes  
*Concepcion R. Diaz-Arrastia, M.D., University of Texas Medical Branch at Galveston*

10:10 am      BREAK

10:40 am      **NICHD Guest Presentation**  
What Can Microarrays Do For Your Research?  
*James Segars, M.D., NICHD*

**Session II: Gynecologic-Oncology/Reproductive Endocrinology and Infertility**  
*Moderator: Linda Giudice, M.D., Ph.D., Stanford University School of Medicine*

11:10 am      The Use of Tumor-Specific Molecular Alterations to Detect Free Tumor DNA in the Bloodstream of Women with Epithelial Ovarian Cancer  
*Elizabeth M. Swisher, M.D., University of Washington School of Medicine*

11:30 am      Activation of the CD40/CD40L Pathway and Presence of CD40L in Endometriotic Pelvic Fluid  
*Sireesha Y. Reddy, M.S., M.D., University of Rochester*

11:50 am      High Throughput Profiling of Human Oocyte Transcripts  
*Anthony T. Dobson, M.D., Ph.D., University of California, San Francisco*

12:10 pm      LUNCH

**Session III: Reproductive Endocrinology and Infertility**  
*Moderator: A. Eugene Washington, M.D., M.Sc., University of California, San Francisco*

1:30 pm      Prostacyclin and the Development of Mouse Embryos  
*Jaou-Chen Huang, M.D., University of Texas, Health Science Center at Houston*

1:50 pm      Identification and Functional Analysis of Forkhead L2 (FOXL2) in the Ovary  
*Margareta D. Pisarska, M.D., Stanford University School of Medicine*

- 2:10 pm Follicular Angiogenesis is Dependent on VEGF Acting Through VEGF Receptor 2 but Not VEGF Receptor 1  
*Ralf C. Zimmermann, M.D., Columbia University College of Physicians and Surgeons*
- 2:30 pm Oxygen Sensing and Osteogenesis: Evidence that Hypoxia Influences Bone Cell Fate  
*Jared C. Robins, M.D., University of Cincinnati College of Medicine*
- 2:50 pm The Phosphodiesterase 3 Inhibitor Org 9935 Inhibits Oocyte Maturation during Gonadotropin Stimulated Ovarian Cycles in Rhesus Macaques  
*Jeffrey T. Jensen, M.D., M.P.H., Oregon Health Sciences University*
- 3:10 pm BREAK
- 3:40 pm **NICHD Presentation**  
After the WRHR  
*Phyllis Leppert, M.D., Ph.D., NICHD*

**Session IV: Poster Presentations**

- 4:10 pm POSTER PRESENTATIONS (P-1 TO P-22)
- 5:30 pm ADJOURN

***Tuesday, April 1, 2003***

- 7:30 am Registration
- 8:30 am **Keynote Address**  
Implantation Is A Sticky Business  
*Susan Fisher, Ph.D., University of California, San Francisco*

**Session V: Maternal-Fetal Medicine**

- Moderator: Richard L. Sweet, M.D., Magee-Women's Hospital, University of Pittsburgh*
- 9:10 am Expression of Steroid Hormone Receptors in Vascular Endothelium  
*Douglas A. Woelkers, M.D., University of California, San Diego*
- 9:30 am A Fetal Brain Inflammatory Response is Responsible for Perinatal Brain Injury Associated with Inflammation-Associated Preterm Birth  
*Michal A. Elovitz, M.D., University of Pennsylvania School of Medicine*

- 9:50 am Monocyte Chemotactic Protein-1 Expression is Increased in Spontaneous Term and Preterm Labor  
*M. Sean Esplin, M.D., University of Utah Health Sciences Center*
- 10:10 am Increased Cotyledon Endothelial Nitric Oxide Synthase Protein Content in the Term IUGR Ovine Fetus  
*Henry L. Galan, M.D., University of Colorado Health Sciences Center*

10:30 am BREAK

**Session VI: Poster Presentations**

11:00 am POSTER PRESENTATIONS (P-1 TO P-22)

12:00 pm LUNCH

**Session VII: Obstetrics/Urogynecology**

*Moderator: Baha Sibai, M.D., University of Cincinnati Medical Center*

- 1:00 pm Role of Angiotensin Receptors on Blood Pressure Control during Pregnancy  
*David C. Merrill, M.D., Ph.D., Wake Forest University School of Medicine*
- 1:20 pm Comparison of Risk Adjustment Methodologies for Cesarean Delivery Rates  
*Jennifer I. Bailit M.D., M.P.H., Case Western Reserve University School of Medicine*
- 1: 40 pm Impact of Menopause on the Supportive Connective Tissue of the Vagina  
*Pamela A. Moalli, M.D., Ph.D., Magee Women's Research Institute, University of Pittsburgh*
- 2:00 pm **NICHD Presentation**  
Research Training and Funding Opportunities  
*Estella C. Parrott, M.D., M.P.H., NICHD*
- 2:30 pm Closing Remarks  
*Phyllis Leppert, M.D., Ph.D. and Estella C. Parrott, M.D., M.P.H.*
- 3:00 pm ADJOURN

## **POSTER PRESENTATIONS (P-1 to P-22) - SESSIONS IV and VI**

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### **Gynecology/Urogynecology/Gynecologic-Oncology**

(P-1) Mechanisms of Cisplatin-Induced Cell Death in a HeLa Cell Culture Model  
*Karen A. Zempolich, M.D., University of Utah Health Sciences Center*

(P-2) Gene Expression Profiles of Contraceptive Progestins on the Progesterone Receptor A and B Isoforms and Androgen Receptors  
*Radhika P. Ghatge, M.D., University of Colorado Health Sciences Center*

(P-3) The Effect of Weight Reduction on Urinary Incontinence: A Randomized Controlled Trial  
*Leslee L. Subak, M.D., University of California, San Francisco*

(P-4) Quantitative Multi-Motor Unit Potential (Multi-MUP) Analyses of External Anal Sphincter Muscles in 12-Week Postpartum Women as Compared to Nulliparous Women  
*W. Thomas Gregory, M.D., Oregon Health and Science University*

(P-5) Prevalence of Comorbid Psychiatric Illness and Impact on Symptom Perception, Quality of Life, and Functional Status in Women with Urinary Incontinence  
*Jennifer L. Melville, M.D., M.P.H., University of Washington School of Medicine*

(P-6) Microarray Analysis of Gene Expression Patterns in Murine Bladder in Pregnancy and Delivery  
*Carol M. Choi, M.D., University of Cincinnati College of Medicine*

### **Reproductive Endocrinology and Infertility**

(P-7) Deletion of SMAD3 Results in Abnormal Folliculogenesis and Infertility in Female Mice  
*Elizabeth A. McGee, M.D., Magee-Women's Research Institute, University of Pittsburgh*

(P-8) Characterization of Mammalian *Cutlet*, an Orthologue of a Fly Gene Required for Germ Cell Proliferation  
*Karen M. Berkowitz, M.D., University of Pennsylvania Medical Center*

(P-9) Expression Profiling of Endometrium from Women with Endometriosis Reveals Candidate Genes for Disease-Based Implantation Failure and Infertility  
*Lee Kao, M.D., Stanford University Medical Center*

(P-10) Importance of Weight Reduction with Lifestyle Modification and/or Metformin Use on Reproductive Parameters in Overweight Women with Polycystic Ovary Syndrome: A Randomized, 48-Week, Placebo-Controlled Pilot Study  
*Kathleen M. Hoeger, M.D., University of Rochester*

(P-11) Diet Induced Obesity Causes Ovarian Subfertility in DBA/2J Mice  
*Drew V. Tortoriello, M.D., Columbia Presbyterian Medical Center of the New York Presbyterian Hospital*

(P-12) Elucidation of the Source of Tumor Necrosis - Alpha (TNF $\alpha$ ) and the Relationship between TNF $\alpha$  and Abnormal Insulin Secretion/Sensitivity in Polycystic Ovary Syndrome  
*Frank Gonzalez, M.D., Case Western Reserve University School of Medicine*

### **Maternal-Fetal Medicine/Obstetrics**

(P-13) Cytoskeletal and Calcium-Dependent Proteins Allow Adrenomedullin to Promote Fetoplacental Growth in Rat Gestation  
*Andrea G. Witlin, D.O., Ph.D., University of Texas Medical Branch at Galveston*

(P-14) Comparison of the Effects of Annexin V and Heparin on Murine Pregnancy Outcome and Evaluation of Placental Overexpression of Annexin V  
*Lavenia B. Carpenter, M.D., University of Cincinnati College of Medicine*

(P-15) Neonatal Brain Damage After Membrane Rupture Prior to 28 Weeks Gestation is Not Associated with Latency Interval  
*Thomas F. McElrath M.D., Ph.D., Brigham and Women's Hospital, Harvard Medical School*

(P-16) Interleukin-6 Promoter Polymorphism - 174 and Spontaneous Preterm Birth  
*Hyagriv N. Simhan, M.D., M.S.C.R., Magee-Women's Research Institute, University of Pittsburgh*

(P-17) Cytokine Profiles in Preterm Labor  
*Lisa M. Hollier, M.D., M.P.H., University of Texas Health Science Center at Houston*

(P-18) Intrauterine Growth Restriction in Rats and the Subsequent Development of Diabetes Mellitus  
*Jamie L. Resnik, M.D., University of California, San Diego*

(P-19) A Cellular Model for IUGR? Hyperthermia-Induced Expression of Vascular Endothelial Growth Factor (VEGF) and the Transcription Factor Hypoxia Inducible Growth Factor - 1 (HIF-1) in Human Choriocarcinoma Cells  
*Elisabeth A. Aron, M.D., University of Colorado Health Sciences Center*

(P-20) Host Mucosal Immune Factors and Vaginal Infections in Pregnancy  
*Alice R. Goepfert, M.D., University of Alabama at Birmingham*

(P-21) Racial Disparity in Pregnancy-Related Mortality  
*Margaret A. Harper, M.D., M.S., Wake Forest University School of Medicine*

## **Developmental Biology**

(P-22) Tension on Growth Cones Controls Brain Development by Its Effects on Parathyroid Hormone Related Peptide (PTHrP)

*Brian L. G. Morgan, M.D., Ph.D., University of California, Los Angeles*