

April 19, 2007 (Open session)  
Lister Hill Auditorium on the NIH Campus

8:00-8:05 Welcome and overview: **Lou DePaolo** (NICHD/NIH)

**Session I: Reproduction & Developmental Biology: Chairs, Mark Mirando (USDA-CSREES), Michael Roberts (University of Missouri)**

8:05-8:40 Heart-Healthy Pork, and Green Eggs and Ham: Genetically Modified Pigs for Medicine and Agriculture, **Randall Prather**

8:40-9:15 PLCzeta, the Sperm Factor of Mice, Bovine and Men, **Rafael Fissore**

9:15-9:50 Domestic Animal Models for Cardiovascular Disease and Therapeutic Cloning, **Cindy Tian**

9:50-10:00 Discussion

10:00-10:15 BREAK

**Session II: Developmental Origins of Disease: Chairs, Cristina Rabadan-Diehl NHLBI/NIH, Peter Preusch (NIGMS/NIH)**

10:15-10:50 Developmental Programming of Adult Disease: Understanding the Impact on Human Health and Animal Production, **Larry Reynolds**

10:50-11:25 Cardiac Vulnerability Models in Developing Sheep, **Kent Thornburg**

11:25-noon The Sheep as a Model for the Study of Developmental Programming: Unique Advantages Gained from the Ability to Perform Detailed Studies on the Fetus with Follow Up Postnatally, **Peter Nathanielsz**

Noon-12:10 Discussion

12:10-1 pm LUNCH AT LISTER HILL CAFETERIA

**Session III: Metabolism: Chairs, Deb Hamernik (USDA-CSREES), LeBris Quinn (University of Washington)**

1:00-1:35 The Neonatal Pig as a Dual-Use Model for Studies of the Developmental Regulation of Protein Metabolism, **Teresa Davis**

1:35-2:10 Bench to Bedside: Where Do "Obese" Pigs Fit In? **Mike Spurlock**

2:10-2:45 Nutritional Biochemistry of the Developing Neonate: Insights Gleaned from a Piglet Model, **Jack Odle**

2:45-3:00 Discussion

3-3:15 pm BREAK

**Session IV: Infectious Disease: Chairs, Sam Perdue (NIAID/NIH), Guy Palmer (Washington State University)**

3:15-3:50 Pathogen Emergence and Shifts in Infectious Disease Patterns: Studies in Real-Time Using Domestic Animals, **Guy Palmer**

3:50-4:25 Horse Sense and HIV: Using an Equine Model to Study Correlates of Lentivirus Immune Control, **Robert Mealey**

4:25-5:00 Of Mice, Calf and Men: The Use of Domestic Species to Study Salmonella-induced Acute Intestinal Inflammation, **Andreas Baumler**

5:00-5:10 Discussion

5:10-6:30 Steering Committee synthesizes results of workshop

April 20, 2007 (By invitation only)

**Session V: Meeting Summary and Planning Session: Chairs, Lou DePaolo (NICHD/NIH), Mark Mirando (USDA-CSREES), Dale Bauman (Cornell University)**

8-11 am Summary, discussion and planning

11 am Adjourn.