

Basic Science Workshop
***“Diagnosing Male Reproductive
Capacity in the Laboratory”***

April 21, 2012

Hilton Tucson El Conquistador
Tucson, Arizona

Program Chair: Kate Loveland

Location: Coronado Ballroom

SATURDAY, APRIL 21, 2012

- 9:00 a.m. – 10:45 a.m.** **Session 1: Histological Approaches**
How to Approach the Problem of Identifying Histopathological Changes in the Testis that Lead to Infertility, Including Cases that Illustrate Unique Approaches to the Challenges of Identifying STAGES
Rex A. Hess, PhD
University of Illinois, USA
- 10:45 a.m. – 11:15 a.m.** **Break**
- 11:15 a.m. – 1:00 p.m.** **Session 2: Markers and Mechanisms**
Cell Fate and Transcriptional Outcomes Following Exposure to Endocrine Disruptors
Sara Pacheco and Ed Dere, PhD,
Brown University, USA (representing Boekelheide Lab)
- Sperm Chromatin Structure Analysis**
Cristian O’Flaherty, PhD
McGill University, Canada
- 1:00 p.m. – 1:45 p.m.** **Lunch**
- 1:45 p.m. – 4:00 p.m.** **Session 3: New Tools for Discovery**
Looking at Spermatogenesis from a Cellular Biophysicist’s Perspective
Rich Cardullo, PhD
University of California, Riverside, USA
- Dynamic Nuclear Substructure Analysis Using Confocal Microscopy and Imaris**
Andy Major
Monash University, Melbourne, Australia
- Bioinformatics of Spermatogenesis: A Biologist’s Perspective**
Liza O’Donnell, PhD
Prince Henry’s Institute, Melbourne, Australia