Growth Hormone/Prolactin Family in Biology and Disease

July 23-28, 2017
The Steamboat Grand Resort
Steamboat Springs, Colorado

Organizers:
Linda SCHULER, PhD
University of Wisconsin
Madison, WI

Rhonda KINEMAN, PhD
University of Illinois at Chicago
Chicago, IL

Sunday, July 23, 2017

4:00 PM – 9:00 PM  Conference Registration

5:00 PM – 6:00 PM  FASEB SRC Welcome Reception

6:00 PM – 7:00 PM  Dinner

7:15 PM – 8:30 PM  Keynote Speaker  
Chair:  Ethan WEISS, PhD (University of California, San Francisco, USA)

Cynthia KENYON, PhD (Calico Labs, California, USA)
“The IGF-1 axis and aging in a small creature”
Monday, July 24, 2017

7:30 AM – 9:00 AM  Breakfast

**Session I:**

**9:00 AM – 12:00 PM**  Mutations in GH and PRL signaling and disease  
Chair: Arthur GUTIERREZ-HARTMANN, MD (University of Colorado, Denver, USA)

9:00 AM – 9:15 AM  Welcome from FASEB

9:15 AM – 9:45 AM  Jan Maarten WIT, MD (Leiden University Medical Center, Leiden, NL)  
“Genetic causes of growth disorders: insights from the clinic”

9:45 AM – 10:15 AM  Adrian F. DALY, MB BCh, PhD (University of Liège, Liège, BELGIUM)  
“Genetic pathways in pituitary gigantism: GPR101, AIP and beyond”

10:15 AM – 10:45 AM  Group photo & FASEB Sponsored Coffee Break

10:45 AM – 11:15 AM  Yair ARGON, PhD (University of Pennsylvania, Philadelphia, USA)  
“Production of insulin-like growth factors 94 uniquely depends on the activity of the chaperone glucose-regulated protein 94”

“Mutant prolactin receptors and disease”

11:45 AM – 12:00 PM  Poster Medley I

12:00 PM – 1:15 PM  Lunch

**Free Afternoon**

4:00 PM – 6:00 PM  Poster Session I

6:00 PM – 7:00 PM  Dinner

**Session II:**  

**7:00 PM – 9:45 PM**  Novel targets and mediators of GH/IGF and PRL  
Chair: Nadine BINART, PhD (Inserm, Faculty of Medicine Paris Sud, FRANCE)

7:00 PM – 7:30 PM  Shoshana YAKAR, PhD (New York University College of Dentistry, USA)  
“The roles of hepatic GHR in controlling carbohydrate and lipid metabolism”
7:30 PM – 8:00 PM  
Rupangi C. VASAVADA, PhD (Icahn School of Medicine at Mount Sinai, New York, USA) 
“Lactogen actions on beta cells: novel signaling mechanisms”

8:00 PM – 8:15 PM  
Anil K. PASUPULATI, PhD (University of Hyderabad, INDIA)  
“YAP regulates growth hormone-mediated podocyte hypertrophy: implications in diabetic nephropathy”

8:15 PM – 8:30 PM  
Break

8:30 PM – 8:45 PM  
Siobhan E. KIRK (University of Otago, NEW ZEALAND)  
“Prolactin signaling in the mouse brain and adrenal in response to acute restraint stress”

8:45 PM – 9:15 PM  
Carlos STOCCO, PhD (University of Illinois at Chicago, USA)  
“IGFs and ovarian function”

9:15 PM – 9:45 PM  
Yi LI, PhD (Baylor College of Medicine, Houston, USA)  
“Mechanism and chemoprevention of breast tumorigenesis in women on dopamine-antagonizing neuroleptics”

**Tuesday, July 25, 2017**

7:30 AM – 9:00 AM  
Breakfast

**Session III**  
Bidirectional interactions between the hypothalamus and PRL/GH  
9:00 AM – 12:00 AM  
Chair: Paul LE TISSIER, PhD (University of Edinburgh, SCOTLAND)

9:00 AM – 9:30 AM  
Patrice MOLLARD, PhD (Université de Montpellier, FRANCE)  
“Network-driven generation of GH pulses”

9:30 AM – 10:00 AM  
Virginie TOLLE, PhD (Inserm and Université Paris Descartes, FRANCE)  
“Ghrelin-derived peptides: new insights into the regulation of the GH/IGF-1 axis”

10:00 AM – 10:15 AM  
Rosemary BROWN, PhD (University of Otago, NEW ZEALAND)  
“Prolactin action in the medial preoptic area is necessary for postpartum maternal behavior in mice”

10:15 AM – 10:45 AM  
FASEB Sponsored Coffee Break
10:45 AM – 11:15 AM  Christian BROBERGER, MD, PhD (Karolinska Institutet, SWEDEN)  
“Network regulation of tuberoinfundibular dopamine neurons: implications for the control of prolactin secretion”

11:15 AM – 11:45 AM  Colin BROWN, PhD (University of Otago, NEW ZEALAND)  
“Role of prolactin in plasticity of oxytocin neuronal function during late pregnancy and lactation”

11:45 AM – 12:00 PM  Poster Medley II

12:00 PM – 1:15 PM  Lunch  
Career Development Workshop

Free Afternoon

4:00 PM – 6:00 PM  Poster Session 2

6:00 PM – 7:00 PM  Dinner

Session IV  
7:00 PM – 9:45 PM  
Chair: Linda SCHULER, PhD (University of Wisconsin—Madison, USA)

7:00 PM – 7:30 PM  Ameae WALKER, PhD (University of California at Riverside, USA)  
“Prolactin and metastasis”

7:30 PM – 7:45 PM  Carrie SHEMANKO, PhD (University of Calgary, CANADA)  
“Identifying the key signaling pathways in prolactin-induced, breast-cancer-mediated osteoclastogenesis”

7:45 PM – 8:00 PM  Catherine TOO, PhD (Dalhousie University, Halifax, CANADA)  
“Characterization of prolactin-inducible pro-survival pathways in breast cancer”

8:00 PM – 8:30 PM  Emily GALLAGHER, MD, PhD (Mount Sinai Medical Center, USA)  
“IGF-1, insulin, metabolism and cancer”

8:30 PM – 8:45 PM  Break

8:45 PM – 9:00 PM  Maïté VERREAULT, PhD (Inserm U 1127, CNRS UMR 7225, Sorbonne Universités, Paris, FRANCE)  
“Identification of GHR signaling as an oncogenic driver of human glioblastoma”
9:00 PM – 9:30 PM  Vincent GOFFIN, PhD (Inserm and Université Paris Descartes, FRANCE)
“Prolactin transgenic mice reveal the existence of castration-resistant luminal progenitors in the prostate”

9:30 PM – 9:45 PM  Shrikant ANANT, PhD (University of Kansas Medical Center, USA)
“Targeting prolactin receptor signaling using antipsychotic drug to suppress pancreatic cancer”

Wednesday, July 26, 2017

7:30 AM – 9:00 AM  Breakfast

Session V   Clinical findings and opportunities
9:00 AM – 12:00 PM  Chair:  Rhonda KINEMAN (University of Illinois at Chicago, USA)

9:00 AM - 9:30 AM  Beverly M.K. BILLER, MD (Harvard Medical School, USA)
“Clinical aspects of adult growth hormone deficiency and long-acting growth hormone development”

9:30 AM – 10:00 AM  Laura DICHTEL, MD, MHS (Harvard University, Boston, USA)
“The GH/IGF-1 axis in nonalcoholic fatty liver disease (NAFLD)”

10:00 AM – 10:15 AM  Jessica DEVIN, MD, MSCI (Vanderbilt University School of Medicine, Nashville, USA)
“Dipeptidyl peptidase-4 inhibition with sitagliptin enhances stimulated growth hormone secretion in women”

10:15 AM – 10:45 AM  FASEB Sponsored Coffee Break

10:45 AM – 11:15 AM  Ronadip BANERJEE, MD, PhD (University of Alabama at Birmingham, USA)
“Prolactin receptor regulation of pancreatic beta-cells”

11:15 AM – 11:45 AM  Anil SOOD, MD (University of Texas MD Anderson Cancer Center, Houston, USA)
“Prolactin and ovarian cancer”

12:00 PM – 1:15 PM  Lunch

Free Afternoon

4:00 PM – 6:00 PM  Meet the Expert sessions, social gathering
6:00 PM – 7:00 PM  Dinner

Session VI  
**Mice and beyond: other models and applications**  
**Chair:** John KOPCHICK, PhD (Ohio University, USA)

7:00 PM – 7:30 PM  
Edward O. LIST, PhD (Edison Biotechnology Institute, Ohio University, USA)  
“Effects of tissue specific growth hormone receptor disruption in insulin sensitive tissues”

7:30 PM – 8:00 PM  
Mark SHERIDAN, PhD (Texas Tech University, Lubbock, USA)  
“Mechanisms underlying the multiple actions of growth hormone: Lessons from rainbow trout”

8:00 PM – 8:30 PM  
Robert COLLIER, PhD (University of Arizona, USA)  
“Recombinant GH in food animals: consequences and public perspectives”

8:30 PM – 8:45 PM  Break

8:45 PM – 9:15 PM  
Mathew LITTLEJOHN, PhD (Livestock Improvement Corporation, NEW ZEALAND)  
“Novel prolactin pathway mutations impact thermoregulation in cattle”

9:15 PM – 9:45 PM  
Russell HOVEY, PhD (University of California, Davis, USA)  
“The pig as a model for resolving the targets and functions of prolactin”

**Thursday, July 27, 2017**

7:30 AM – 9:00 AM  Breakfast

Session VII  
**GH/ PRL and downstream mediators in metabolic health and disease**  
**Chair:** Andrzej BARTKE, PhD (Southern Illinois University, USA)

9:00 AM – 9:30 AM  
Steven KLIEWER, PhD (University of Texas—Southwestern, USA)  
“FGF21, GH and metabolism”

9:30 AM – 10:00 AM  
Darlene BERRYMAN, PhD (Ohio University, USA)  
“GH and adipose tissue: quality versus quantity”
10:00 AM – 10:15 AM  Kevin CORBIT, PhD (University of California, San Francisco, USA)  “Using genetic and in vivo phospho-proteomic approaches to determine the tissue-specific roles of GH in mediating hepatic insulin sensitivity”

10:15 AM – 10:45 AM  FASEB Sponsored Coffee Break

10:45 AM – 11:00 AM  Andrew LARNER, MD, PhD (Virginia Commonwealth University, USA)  “Metabolic actions of Stats in mitochondria”

11:00 AM – 11:30 AM  Yazmín MACOTELA, PhD (Universidad Nacional Autónoma de México, México)  “Prolactin promotes metabolic homeostasis in obesity: from early life to adulthood”

11:30 AM – 12:15 PM  Business Meeting

12:15 PM – 1:15 PM  Lunch

1:15 PM – 6:00 PM  Free Afternoon  Optional Group Activity: Strawberry Park Hot Springs

6:00 PM – 7:00 PM  Dinner

Session VIII:  GH/PRL in Development  7:00 PM – 9:45 PM  Chair: Christin CARTER-SU, PhD (University of Michigan, USA)

7:00 PM – 7:30 PM  Sally CAMPER, PhD (University of Michigan, USA)  “Pituitary development and disease: from stem cells to the Pou1f1 lineage”

7:30 PM – 8:00 PM  Clara ALVAREZ, MD, PhD (University of Santiago de Compostela, SPAIN)  “Pituitary cell turnover: balance between adult stem cell recruitment and cell death of endocrine secretory cells”

8:00 PM – 8:15 PM  Caitlin STALLINGS (Southern Illinois University, USA)  “FOXOs are important for somatotrope differentiation”

8:15 PM – 8:30 PM  Break

8:30 PM – 8:45 PM  Maria Felicitas LOPEZ-VICCHI (IByME, ARGENTINA)  “Hyperprolactinemia induced by selective disruption of dopamine type 2 receptors in lactotropes evokes leptin insensitivity and alters gene expression in specific hypothalamic nuclei”
8:45 PM – 9:15 PM Kathryn GATFORD, PhD (University of Adelaide, AUSTRALIA)  
“Perinatal health and the fetal environment: impact of GH and IGFs”

9:15 PM – 9:45 PM James C. CROSS, DVM, PhD (University of Calgary, CANADA) 
“Placental prolactin and related hormones: coordination of pregnancy”

9:45 PM – 10:00 PM Linda SCHULER and Rhonda KINEMAN: concluding remarks

10:00 PM Social gathering

Friday, July 28, 2017

7:30 AM – 8:30 AM Breakfast

8:30 AM Departures
Boxed Lunches Available

END OF CONFERENCE

For additional information contact:
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