



Join Keystone Symposia
for the 2016 conference on:

Metabolism, Transcription & Disease

January 10–14, 2016

Snowbird Resort | Snowbird, Utah | USA

Scientific Organizers:

Peter Verrijzer, Katherine A. Jones and Paolo Sassone-Corsi

*Joint with the conference on **Nuclear Receptors: Full Throttle***

There is increasing evidence that misregulation of metabolic flux and gene transcription plays a major role in human diseases, including obesity, diabetes and cancer. The aim of this meeting is to explore how metabolic state influences gene expression programs and, conversely, how intermediary metabolism is controlled by the transcription machinery and chromatin-modulating enzymes. Particular emphasis will be on the connection between gene transcription and metabolism in homeostatic and diseased state. The aim of this meeting is to bring together scientists working on basic aspects of transcription control, epigenetics, metabolic disease and cancer. The meeting will serve as a discussion platform to explore the rapidly growing interphase between transcription regulation, metabolic reprogramming and human disease.

Session Topics:

- The Transcription Machinery and Human Disease (Joint)
- Epigenetics and Chromatin as a Metabolic Sensor
- Signaling to Chromatin and Human Disease
- Gene Control by Metabolic Enzymes
- Metabolism and Tumor Suppression
- Rapid and Integrated Signaling (Extra-Nuclear) Actions of NRs
- Circadian and Metabolic Cycles (Joint)
- Obesity, Diabetes and Misregulation of Gene Expression
- Transcriptional Control of Cell Growth



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Sep 23, 2015

Abstract Deadline: Oct 22, 2015

Discounted Registration Deadline: Nov 12, 2015

For additional details, visit www.keystonesymposia.org/16J2.

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology
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KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Metabolism, Transcription and Disease (J2)

Scientific Organizers: Peter Verrijzer, Katherine A. Jones and Paolo Sassone-Corsi

Supported by the Directors' Fund

Nuclear Receptors: Full Throttle (J1)

Scientific Organizers: Carol A. Lange, Jennifer K. Richer and Karen E. Knudsen

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SUNDAY, JANUARY 10

Arrival and Registration

MONDAY, JANUARY 11

Welcome and Keynote Address (Joint)

Robert T. Tjian, HHMI/University of California, Berkeley, USA
Probing Transcription Regulation by Single Molecule Imaging

Transcription and Human Disease (Joint)

Danny F. Reinberg, HHMI/New York University, USA
Epigenetic Regulation by Polycomb Complexes

Susanne Mandrup, University of Southern Denmark, Denmark
Reorganization of the 3D Chromatin Structure during Adipocyte Differentiation

Mitchell A. Lazar, Perelman School of Medicine at the University of Pennsylvania, USA
Nuclear Receptors and the Transcriptional Regulation of Circadian Rhythms and Metabolism

Asifa Akhtar, Max Planck Institute of Immunobiology and Epigenetics, Germany
Epigenetic Regulation by MOF Containing Complexes

Workshop 1: NR Interactions with DNA and The Transcriptional Machinery (J1)

Short Talks Chosen from Abstracts

Epigenetics and Chromatin as a Metabolic Sensor (J2)

Jerry L. Workman, Stowers Institute for Medical Research, USA
Serine and SAM responsive complex SESAME regulates histone modification crosstalk by sensing cellular metabolism

Katrin F. Chua, Stanford University Medical Center, USA
Chromatin Regulation and Genome Maintenance by Mammalian Sirtuins

Melanie M. Ott, University of California, San Francisco, USA
Gene Control by Acetylation of the CTD of RNA Polymerase II

Short Talk Chosen from Abstracts

Co-Activators (J1)

Myles Brown, Dana-Farber Cancer Institute, USA
Talk Title to be Determined

Qianben Wang, Ohio State University, USA
Precise and Dynamic Definition of Nuclear Receptor Collaborator and Coregulator Cistromes

Carol A. Lange, University of Minnesota, USA
Stress-responsive Gene Regulation by GR/HIF/PELP1 Complexes in Triple Negative Breast Cancer

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JANUARY 12

Signaling to Chromatin and Human Disease (J2)

Gerald R. Crabtree, Stanford University, USA
Chromatin Remodeling and Cancer

Tokameh Mahmoudi, Erasmus Universiteit Rotterdam, Netherlands
Signaling to Chromatin and Viral Latency

W. Lee Kraus, University of Texas Southwestern Medical Center, USA
Nuclear NAD⁺ Signaling through DNA-dependent PARPs and the Control of Gene Expression

Marc R. Montminy, The Salk Institute for Biological Studies, USA
Role of the CRTC Family of CREB Coactivators in Energy Balance

Short Talk(s) Chosen from Abstracts

From Chromatin to Clinic (J1)

Karen E. Knudsen, Thomas Jefferson University, Kimmel Cancer Center, USA

Nuclear Receptor-DNA Repair Crosstalk: Bench to Bedside

John A. Katzenellenbogen, University of Illinois at Urbana-Champaign, USA

Novel Ligands for Estrogen Receptor and Androgen Receptor Targeted Therapies

Susan K. Logan, New York University School of Medicine, USA
Transcription Repression in Prostate Cancer

Amy Peterson, Medivation, Inc., USA
Advances in the Use of Selective Androgen Receptor Modulators as Cancer Therapies

Gene Control by Metabolic Enzymes (J2)

Peter Verrijzer, Erasmus University Medical Center, Netherlands
Transcription Control by Nucleotide Biosynthetic enzymes

Jesper Q. Svejstrup, Francis Crick Institute, UK
Transcription-Associated Genome Instability

Katherine A. Jones, The Salk Institute, USA
Metabolic Role for CTD Kinases

Short Talk Chosen from Abstracts

Advances in Structures, Ligands, and Energetics (J1)

Nima Sharifi, Cleveland Clinic, USA
Feeding the Ligand Addiction in Advanced Cancers

Kendall W. Nettles, The Scripps Research Institute, USA
Predicting Phenotypes of Estrogen Receptor Ligands

David L. Bain, University of Colorado Anschutz Medical Campus, USA
Nuclear Receptor Functional Energetics and Transcriptional Regulation

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Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, JANUARY 13

Metabolism and Tumor Suppression (J2)

Karen H. Vousden, Beatson Institute for Cancer Research, UK
Serine Metabolism and the SAM Cycle

Amanda G. Fisher, MRC Clinical Sciences Centre, Imperial College London, UK
Non-Invasive Imaging of Epigenetic Changes in the Developing Embryo

Ali Shilatifard, Northwestern University Feinberg School of Medicine, USA
Enhancer Malfunction in Cancer

Craig B. Thompson, Memorial Sloan-Kettering Cancer Center, USA
Metabolic Regulation of Epigenetics

Short Talk(s) Chosen from Abstracts

Rapid and Integrated Signaling (Extra-Nuclear) Actions of NRs (J1)

Ellis R. Levin, Long Beach VA Medical Center/University of California, Irvine, USA
Membrane and Nuclear-Only ERalpha Mice Inform Phenotypes and Metabolic Functions Resulting From Estrogen Action

Cheryl L. Walker, Texas A&M Health Science Center, USA
Environmental Estrogens Activate Nongenomic ER Signaling to Developmentally Reprogram the Epigenome

Stephen R. Hammes, University of Rochester Medical Center, USA
Crosstalk between Estrogen and mTOR Signaling in Lymphangioleiomyomatosis (LAM)

Zeynep Madak-Erdogan, University of Illinois at Urbana-Champaign, USA

Systems Biology of Gene and Metabolic Regulation by Estrogen Receptors and Kinases in Breast Cancer and Metabolic Disease

Short Talk(s) Chosen from Abstracts

Circadian and Metabolic Cycles (Joint)

Ronald M. Evans[†], Howard Hughes Medical Institute, Salk Institute, USA

Paolo Sassone-Corsi, University of California, Irvine, USA
Transcription Networks Controlling Circadian Rhythm

Jane Mellor, University of Oxford, UK
Transcriptional Regulation of the Metabolic Cycle

Ronald M. Evans, Howard Hughes Medical Institute, Salk Institute, USA
Nuclear Receptors and the Circadian Clock

Poster Session 3

THURSDAY, JANUARY 14

Keynote Address (J2)

Bruce M. Spiegelman, Harvard Medical School, USA
Transcriptional Control of Adipose Tissue and Metabolic Health

Obesity, Diabetes and Misregulation of Gene Expression (J2)

Carl S. Thummel, University of Utah School of Medicine, USA
Regulation of mitochondrial transcription and carbohydrate homeostasis by the HNF4 nuclear receptor

Shingo Kajimura, University of California, San Francisco, USA
Molecular basis of beige adipocyte maintenance and energy expenditure

Anders M. Näär, Harvard Medical School, USA
Transcriptional and MicroRNA Circuits in Metabolic Disorder

Short Talk(s) Chosen from Abstracts

Nuclear Receptors in Cancer, Gender Benders and Other Advances (J1)

Christine Louise Clarke, Westmead Millennium Institute, Australia
Progesterone Action in Normal Breast and Breast Cancer

Gail S. Prins, University of Illinois, USA
Estrogenic Regulation of Prostate Stem and Progenitor Cells: Differential Actions through ERalpha and ERbeta

Jennifer K. Richer, University of Colorado Anschutz Medical Campus, USA
Subtype-Specific AR Action in Breast Cancer

John A. Cidlowski, NIEHS, National Institutes of Health, USA
Stress Hormone Signaling and Heart Disease : The Good, the Bad, and the Deadly

Short Talk(s) Chosen from Abstracts

Workshop 2: Signal Transduction and NR Actions (J1)

Short Talks Chosen from Abstracts

Transcriptional Control of Cell Growth (J2)

Don Ayer, University of Utah, USA
c-Myc and MondoA Couple Nutrient Utilization and Availability in Tumorigenesis

James T. Kadonaga, University of California, San Diego, USA
Operating Systems, Apps, and Novel Chromatin Structures for the Regulation of Our Genes

Bruno Amati, Italian Institute of Technology and European Institute of Oncology, Italy
Myc-Driven Transcriptional Programs in Tumor Development: Toward New Therapeutic Opportunities

NRs as Modulators of Immune Cell Function (J1)

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Christopher K. Glass, University of California, San Diego, USA

Influence of Tissue Environment on Macrophage Identity and Function

Inez Rogatsky, Weill Medical College of Cornell University, USA

Transcriptional Cofactor NCoA2/GRIP1 in Macrophage Polarization and Metabolic Control

Closing Keynote Address (J1)

Joe Thornton, University of Chicago, USA

Nuclear Receptor Evolution: How NR Structures and Functions Came to Be

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J2)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J1)

FRIDAY, JANUARY 15

Departure