

BENZON SYMPOSIUM No. 55
TRANSCRIPTION, CHROMATIN AND DISEASE
AUGUST 18 – 21, 2008, COPENHAGEN, DENMARK

Organizing committee:

Kristian Helin (Copenhagen), Jesper Q. Svejstrup (London) & Arne Svejgaard (Copenhagen)

Scientific program - MONDAY, August 18, 2008

Kristian HELIN: Welcome

Session I: TRANSCRIPTION AND CHROMATIN MACHINERIES A

Chair: Kristian Helin

Joan CONAWAY: Transcriptional Regulatory Complexes

Robert G. ROEDER: Insights Into Transcriptional Coactivator Functions through Analysis in Biochemically Defined *in vitro* Systems

Robert TJIAN: Switching Core Transcription Machinery: An Unexpected Mechanism for Maintaining Stem Cell Pluripotency and Driving Differentiation

Amber L. MOSLEY: Rtr1 Regulates the Transition from Serine 5 to Serine 2 Phosphorylation on the RNA Polymerase II C-terminal Domain during Transcription Elongation (*Oral poster*)

Brad CAIRNS: Distinctive Chromatin Structures Reside at the Promoters of Transcription Factors Important for Embryo Development in Human Sperm

Posters: Authors present posters Nos. I-1 – I-19

Session II: TRANSCRIPTION AND CHROMATIN MACHINERIES B

Chair: Stefan Björklund

Jerry WORKMAN: The Role of Histone Modifications in Gene Transcription

Jesper Q. SVEJSTRUP: Contending with Obstacles to Transcription: Collision and Destruction

Francisco MALAGON: Transcription Initiation Events Control Levels of Cytoplasmic Ty1 RNA Bodies (*Oral poster*)

Karen LOWER: Allele Specific Expression due to Mutations within the Chromatin-associated Factor ATRX (*Oral poster*)

Roger KORNBERG: Chromatin Remodeling for Transcription

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Scientific program - TUESDAY, August 19, 2008

Session III: CHROMOSOME AND NUCLEAR ORGANIZATION

Chair: Asifa Akhtar

Genevieve ALMOUZZI: Chromatin Assembly Factors and the Challenges of DNA Replication and Repair

Steen HOLMBERG: A Role for Chromatin Remodeling Complexes and Architectural Factors in mRNA Splicing (*Oral poster*)

Christian MUCHARDT: The SWI/SNF Complex Regulates Alternative Splicing (*Oral poster*)

Wendy BICKMORE: Polycomb Repressive Complexes are required to Maintain Compact Chromatin Structure at Hox loci

Robert E. KINGSTON: Unraveling Occupancy and Organization of the Genome

Posters: Authors present posters Nos. II-1 – II-24 & IV-1 – IV-10

Session IV: ACTIVE AND SILENT CHROMATIN – 1

Chair: Peter Verrijzer

Asifa AKHTAR: Dosage Compensation and Chromatin Regulation

Robert FEIL: Role and Regulation of Histone Methylation at Mouse Imprinted Gene Loci (*Oral poster*)

Robert SCHNEIDER: Characterization of a new Lysine Methylation Site that marks Heterochromatin and is Dynamically Remodeled during Reprogramming and Development (*Oral poster*)

Tony KOUZARIDES: Chromatin Modifications and Their Function

David ALLIS: Beyond the Double Helix: Writing and Reading the "Histone Code"

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Scientific program - WEDNESDAY, August 20, 2008

Session V: TRANSCRIPTION, CHROMATIN AND DISEASE A

Chair: Yang Shi

Claes GUSTAFSSON: Structural and Functional Analysis of Fission Yeast Mediator

Jean-Marc EGLY: Reading the Gene in Company of Some DNA Repair Factors

Maarten VAN LOHUIZEN: Polycomb Repressors Controlling Stem Cell Fate: Implications for Cancer and Development

Efrat SHEMA: hBRE1/RNF20, the Major E3 Ubiquitin Ligase for Histone H2B, Regulates Transcription in a Gene-specific Manner, Inhibits EGF-induced Migration, and is a Putative Tumor Suppressor (*Oral poster*)

Kathrin PLATH: Transcription Factor -Induced Global Epigenetic Remodeling to Pluripotent Stem Cells

Posters: Authors present posters Nos. III-1 – III-22 & IV-11 – IV-20

Session V: TRANSCRIPTION, CHROMATIN AND DISEASE B

Chair: Wendy Bickmore

Pier Giuseppe PELICCI: Epigenetics of Acute Promyelocytic Leukemia

Peter VERRIJZER: Antagonistic Transcription Control through Histone (De)ubiquitylation

Session VI: ACTIVE AND SILENT CHROMATIN – 2A

Chair: Wendy Bickmore

Marco DE GOBBI: Role of CTCF/Cohesin Binding Sites in Regulation of Gene Expression (*Oral poster*)

JJ MIRANDA: Molecular Architecture of Human CTCF and the Insulatorosome (*Oral poster*)

Michael GRUNSTEIN: Histone H3 K56 Acetylation Marks the Core Transcriptional Network for Pluripotency in Human Embryonic Stem Cells

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Scientific program - THURSDAY, August 21, 2008

Session VII: ACTIVE AND SILENT CHROMATIN – 2B

Chair: Genevieve Almouzni

Thomas JENUWEIN: Epigenetic Control by Histone Methylation

Kristian HELIN: Control of Stem Cell Differentiation and Cancer by Histone Methylation

Rosemary KIERNAN: Nuclear Exosome is required for Transcriptional Silencing of the HIV-1 Promoter (*Oral poster*)

Session VIII: ACTIVE AND SILENT CHROMATIN – 2C

Chair: Jesper Svejstrup

Thomas Å PEDERSEN: Genome-wide ChIP-seq Profiling of PPAR γ /RXR Target Sites and Gene Program during 3T3-L1 Adipocyte Differentiation (*Oral poster*)

Yi ZHANG: Role of Histone Demethylases in Development and Cellular Metabolism

Yang SHI: Histone de-Methylation

Jesper Q. SVEJSTRUP: Closing comments