



## Cornell University Department of Molecular Biology and Genetics

### 2012-13 Archived Seminars

**May 24, 2013**

**Speaker: Julius Lucks**

Department of Chemical and Biomedical Engineering

Cornell University

**Title: "Towards Unraveling the RNA Sequence-Structure Code Using High Throughput RNA Structure Characterization"**

**Host:** Sylvia Lee

<http://www.cheme.cornell.edu/people/profile.cfm?netid=jl564>

**May 17, 2013**

**W. Lee Kraus**

Distinguished Chair & Director, Cecil H. and Ida Green Ctr. for Reproductive Biology Sciences

Professor & Vice Chair for Basic Science, Dept of Ob/Gyn

Professor, Department of Pharmacology

University of Texas Southwestern Medical Ctr. @ Dallas

**Title: "Chromatin-Mediated Gene Regulation by PARP-1: Control of Cellular Signaling and Differentiation Programs"**

**Host:** John Lis

<http://www.utsouthwestern.edu/education/medical-school/departments/green-center/index.html>

**May 9, 2013 (THURSDAY)**

**Brenton Graveley**

University of Connecticut Health Center

Genetics and Developmental Biology

**Title: "Insights into RNA Biology in Drosophila from Genome-Wide Studies"**

**Host:** Jeff Pleiss

[http://genetics.uhc.edu/faculty/assoc\\_professors/graveley.html](http://genetics.uhc.edu/faculty/assoc_professors/graveley.html)

**May 3, 2013**

**Bill Kelly**

Emory University

Department of Biology

**Title: "Remembrance of Transcriptiones Past: Germline-Specific Modes of Transcription Regulation in C. elegans"**

**Host:** Kelly Liu

<http://www.biology.emory.edu/research/Kelly/members/Bill.html>

**April 26, 2013**

**Kevin Struhl**

Harvard Medical School

Dept. of Biological Chemistry & Molecular Pharmacology

**Title: "Transcriptional regulatory mechanisms in yeast and an epigenetic switch linking inflammation to cancer"**

**Host:** John Lis

<https://struhl.med.harvard.edu/>

**Siegfried Hekimi**

Department of Biology

McGill University, Quebec

**Title: "Pro-longevity mitochondrial ROS signalling: a new framework to understand the role of "oxidative stress" in the aging process"**

**Host:** Sylvia Lee

<http://hekimilab.mcgill.ca/>

**April 12, 2013**

**Nicolas Buchon**

Department of Entomology

Cornell University

**Title: "Gut homeostasis in a microbial world: insights from Drosophila"**

Host: Mariana Wolfner

<http://buchonlab.com/>**April 5, 2013****Robert Reed**

Ecology &amp; Evolutionary Biology

Cornell University

**Title: "Adaptation in technicolor: The developmental genetic basis of butterfly wing pattern evolution"**

Host: Kelly Liu

<http://ecologyandevolution.cornell.edu/people/faculty/robert-reed.cfm>**March 29, 2013****Scott Keeney**

Sloan Kettering Institute, New York

Molecular Biology Program

**Title: "When, Where, and how much? Controlling the number and timing of meiotic double-strand breaks"**

Host: Eric Alani and Michelle Wang

<http://www.mskcc.org/research/lab/scott-keeney>**March 22, 2013****Duojia D. J. Pan**

Johns Hopkins University

Howard Hughes Medical Institute

Department of Molecular Biology &amp; Genetics

**Title: "The Hippo signaling pathway: from developmental biology to translational implications"**

Host: Tony Bretcher and Kelly Liu

<http://www.mbg.jhmi.edu/Pages/people/profile.aspx?PID=181>**March 15, 2013****Adam Boyko**

College of Veterinary Medicine

Department of Biomedical Sciences

Cornell University

**Title: "Thinking Outside the Boxer:****Free-Range Dogs and the Evolution of Canine Genomics "**

Host: Paul Soloway

[http://3cpg.cornell.edu/index.cfm/page/People/Boyko\\_Lab.htm](http://3cpg.cornell.edu/index.cfm/page/People/Boyko_Lab.htm)**March 8, 2013****Sara Sawyer**

University of Texas at Austin

Molecular Genetics and Microbiology

Inst. for Cellular and Molecular Biology

**Title: "Genetic conflict: Coevolution between animals and viruses"**

Host: Ken Kemphues

<http://web.biosci.utexas.edu/sawyer/>**March 7, 2013 (Thursday)****Elcin Unal**

Candidate Seminar

Massachusetts Institute of Technology

**Title: "From Genome Partitioning to Cellular Rejuvenation:****Unique Aspects of Gametogenesis"**

Host: Adrienne Roeder

**March 1, 2013****Toren Finkel**

National Heart, Lung, and Blood Institute

Laboratory of Molecular Biology

**Title: "Molecular Mechanism Underlying Mammalian Aging"**

Host: Sylvia Lee

<https://intramural.nhlbi.nih.gov/labs/MBS/Pages/default.aspx>**February 25, 2013 (MONDAY)****Gary Hon**

Candidate Seminar

Ludwig Institute for Cancer Research, San Diego

**Title: "The expanding scope of the epigenome in cellular identity and memory"**

Host: Doina Tumber

**February 22, 2013**

**Special Event**

MBG Graduate Field Recruitment Poster Session

Biotech Building- room G10

Hosted by: Sylvia Lee, Kelly Liu and Jerry Feigenson

**February 18, 2013 (Monday)**

**Nir Yosef**

Broad Institute and Brigham & Women Hospital, Harvard University

Candidate Seminar

**Title: "Inferring Network Architecture in Biological Systems: Understanding Temporal Processes that Control Immune Cell Function"**

Hosted by: Alon Keinan and Andy Clark

**February 14, 2013 (Thursday)**

**Roberto Zoncu**

Whitehead Institute, MIT

Candidate Seminar

**Title: "More Than a Recycle Bin: Mechanisms of Nutrient Sensing and Signaling by the Lysosome"**

Hosted by: Yuxin Mao

**February 11, 2013 (Monday)**

**Igor Ulitsky**

Whitehead Institute for Biomedical Research

Candidate Seminar

**Title: "Conserved functions of long noncoding RNAs in vertebrate embryonic development"**

Hosted by: Alon Keinan and Andrew Grimson

**February 5, 2013 (TUESDAY)**

**Scott Dixon**

**Columbia University**

Candidate Seminar

**Title: "Redox Modulation of Cell Fate: Cancer, Neurodegeneration and Beyond"**

Hosted by: Haiyuan Yu

**February 1, 2013**

**Grant Brown**

University of Toronto

Department of Biochemistry and

Donnelly Centre

**Title: "Genome-scale Analysis of Protein Dynamics During DNA Replication Stress in *S. cerevisiae*"**

Hosted by: Marcus Smolka and Joe Peters

<http://biochemistry.utoronto.ca/brown/index.html>

**January 31, 2013 (Thursday)**

**Yin Shen**

Ludwig Institute for Cancer Research

Department of Biochemistry and

**Title: "Decoding the Mammalian Genome"**

Hosted by: Haiyuan Yu

**January 23, 2013 (Wednesday)**

**Chun Han**

Candidate Seminar

**Title: "Regulation of dendrite morphogenesis by the neuronal environment"**

**January 21, 2013 (Monday)**

**Katherine (K-T) Varley**

Candidate Seminar

HudsonAlpha Institute

**Title: "Genomics as a tool to improve understanding, prognosis, and treatment of breast cancer "**

Hosted by: Chip Aquadro and Ruth Ley

**January 17, 2013 (Thursday)****Jason Gertz**

Candidate Seminar

HudsonAlpha Institute

**Title: "Determination of Genomic Features that Influence Cell Type-specific Estrogen Receptor Binding"**

Hosted by: Andy Clark

**January 14, 2013 (Monday)**

Candidate Seminar

**Markus Hafner**

Rockefeller University

**Title: "Comprehensive identification of miRNA target sites and characterization of ribonucleoprotein complexes by PAR-CLIP"**

Weill Hall-Room 226 at 4:00p.m.

Host: John Lis

**December 13, 2012 (THURSDAY)****Rob Martienssen**

Cold Spring Harbor Laboratory

**Title: "Transposon reprogramming with small RNA in germ cells"**

Natalie Henkhaus (G &amp; D Field)

<http://www.cshl.edu/Faculty/martienssen-rob-professor.html>**December 7, 2012****Jason Locasale**

Division of Nutritional Sciences

Cornell University

**Title: "Rewiring of glucose metabolism in cancer"**

Host: Sylvia Lee

<http://www.human.cornell.edu/bio.cfm?netid=jwl278>**November 30, 2012 (Thursday)****Ralf Sommer**

Max-Planck Institute for Developmental Biology

Department for Evolutionary Biology

Tuebingen, Germany

**Title: "Integrative evolutionary biology-the need for crosstalk between development, ecology and population genetics"**

Host: Frank Schroeder

<http://www.eb.tuebingen.mpg.de/research/departments/evolutionary-biology>**November 16, 2012- FRIDAY****2012 Racker Seminar****Speaker: Lew Cantley**

Harvard Medical School

Department of Systems Biology

4:00 p.m. G-10 Biotech Building

**Title: "PI 3-Kinase and Cancer Metabolism"**

Hosts: David Shalloway, Rick Cerione &amp; Volker Vogt

**November 15, 2012 (THURSDAY)****2012 Racker Lecture****Speaker: Lew Cantley**

Harvard Medical School

Department of Systems Biology

8:00 p.m. Call Auditorium, Kennedy Hall

**Title: "The Future of Cancer Prevention and Treatment: moving from Discovery to Implementation"**

Hosts: David Shalloway, Rick Cerione &amp; Volker Vogt

**November 9, 2012****Speaker: Natasza Kurpios**

Department of Molecular Medicine

Cornell University

**Title: "The exquisite dorsal mesentery directs left-right gut morphogenesis"**

Host: Sylvia Lee

<http://kurpioslab.vet.cornell.edu/>

**November 2, 2012 (RESCHEDULED)**

**Adam Boyko**

Cornell University  
College of Veterinary Medicine  
Department of Biomedical Sciences

**Title: "Thinking Outside the Boxer:  
Free-Range Dogs and the Evolution of Canine Genomics"**

Host: Paul Soloway

[http://3cpg.cornell.edu/index.cfm/page/People/Boyko\\_Lab.htm](http://3cpg.cornell.edu/index.cfm/page/People/Boyko_Lab.htm)

**October 26, 2012**

**Susan Ferro-Novick**

Howard Hughes Medical Institute  
School of Medicine  
UC San Diego

**Title: "How does a transport vesicle find its way in the cell?"**

Host: Chris Fromme and Ruth Collins

[http://www.hhmi.org/research/investigators/ferronovick\\_bio.html](http://www.hhmi.org/research/investigators/ferronovick_bio.html)

**October 19, 2012**

**David Allis**

The Rockefeller University  
Laboratory of Chromatin Biology and Epigenetics

**Title: "Varying and Poisoning the 'Histone Code': a Role of the Histone Variant H3.3 in Human Cancers"**

Host: John Lis

<http://www.rockefeller.edu/research/faculty/abstract.php?id=229>

**October 12, 2012**

**Frank Pugh**

Penn State University  
Willaman Chair, Dept. of Biochemistry and Molecular Biology

**Title: "Genome-wide organization of chromatin and the  
transcription machinery at very high resolution"**

Host: John Lis

<http://bmb.psu.edu/directory/bfp2/>

**October 5, 2012**

**Michael Rosbash**

Brandeis University  
Howard Hughes Medical Institute  
Department Biology

**Title: "Circadian Rhythms: Molecules, Neurons and Circuits"**

Host: Volker Vogt

<http://www.bio.brandeis.edu/faculty/rosbash.html>

**September 28, 2012**

**Speakers: Ruth Ley & Andy Clark  
with Julia Goodrich & Ran Blekman**  
Dept. of Molecular Biology & Genetics  
Cornell University

**Title: "Host genetic control of the human gut microbiome"**

Websites: Ley <http://micro.cornell.edu/research/labs/ley-lab/index.cfm>

and Clark <http://mbg.cornell.edu/faculty-staff/faculty/clark.cfm>

Host: Jeff Roberts

**September 21, 2012**

**Virginia Zakian**

Department of Molecular Biology  
Princeton University

**Title: "Pif1 helicases: conserved functions in promoting genome integrity"**

Host: Marcus Smolka

<http://www.princeton.edu/admission/whatsdistinctive/facultyprofiles/zakian/>

**September 14, 2012**

**Richard Lenski**

Department of Microbiology and Molecular Genetics  
Michigan State University

**Title: "Time Travel in Experimental Evolution"**

Host: Eric Alani

<http://myxo.css.msu.edu/lenski/>

**September 7, 2012**

**Andrew Karplus**

Department of Biochemistry and Biophysics  
Oregon State University

**Title: "From peroxide signaling to pi-helices: the power of an evolutionary perspective on protein structure"**

Host: Tony Bretscher

<http://biochem.science.oregonstate.edu/people/p-andrew-karplus>

**August 31, 2012**

**Yosef Gruenbaum**

Department of Genetics  
The Hebrew University of Jerusalem

**Title: "Regulation of muscle integrity, aging and metabolism by lamin"**

Host: Kelly Liu and Mariana Wolfner

<http://www.projects.mfpl.ac.at/euro-laminopathies/php/index.php?id=55>

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