Fall 2010

Upcoming Events  Mark Your Calendars:

Nuclear Control Meeting
Thursday, September 23, 2010
Kjeldsberg Conference Room (1200 Emma Eccles Jones)
4:00 p.m. – 5:30 p.m.
Brad Cairns and Evan Johnson
DNA methylation levels, analysis and biology
Jared Rutter
Mitochondrial defects in cancer
Also: Business meeting with CCSG Grant Update and future activities

Tuesday, October 19: Nuclear Control Meeting
Speakers: TBA

Friday, December 3: HCI Center-wide Retreat (Rod Stewart is serving on the Planning Committee). Stay tuned for more details.

2010 Publication Highlights:
Glucose controls nuclear accumulation, promoter binding, and transcriptional activity of the MondoA-Mix heterodimer
Peterson CW, … Ayer DE Mol Cell Biol. 30(12):2887-95

Human RNA polymerase III transcriptomes and relationships to Pol II promoter chromatin and enhancer-binding factors

Ras signaling requires dynamic properties of Ets 1 for phosphorylation-enhanced binding to coactivator CBP
Nelson ML, … Graves BJ Proc Natl Acad Sci USA. 1;107(22):10026-31

Is there a predisposition gene for Ewing’s sarcoma?
Randall RL, Lessnick SL, … Schiffman JD J Oncol 2010:397632

Succinate dehydrogenase – assembly, regulation and role in human disease
Rutter J, Winge DR, Schiffman JD Mitochondrion. 10(4):393-401

The zebrafish as a model for cancer
Mione MC, Trede NS Dis Model Mech. E-pub ahead of print

Dnmt3 and G9a cooperate for tissue-specific development in zebrafish.
Rai K, Jafri IF….. Cairns BR, Jones DA J Biol Chem. 5;285(6):4110-21

The Drosophila nuclear receptors DHR3 and betaFTZ-F1 control overlapping developmental responses in late embryos
Raud AF, Lam G, Thummel CS Development 137(1):123-31

NC Members
Barbara J. Graves, PhD
Leader
Don Ayer, PhD
Brenda Bass, PhD
Cynthia Burrows, PhD
Brad Cairns, PhD
Mario Capecchi, PhD
Dana Carroll, PhD
Tim Formosa, PhD
Kimble Frazer, MD, PhD
Kent Golic, PhD
David Grunwald, PhD
Chris Hill, PhD
Eric Huang, PhD
Randy Jensen, MD, PhD
Evan Johnson, PhD
Kevin Jones, MD
Betty Leibold, PhD
Stephen Lessnick, MD, PhD
David Nix, PhD
Jared Rutter, PhD
Ila Singh, MD, PhD
Dean Tantin, PhD
Carl Thummel, PhD
Nikolaus Trede, MD, PhD
New HCI Shared Resources (Cores):

Contact info for Directors of new and emerging cores:

Drug Screening
Betsy Manos

Comparative Oncology (tumor models)
(website coming soon)
Yoko DeRose

Frequently Used Shared Resources Supported by the Cancer Center
Biostatistics• DNA/Peptide*•Drug Screening*•FlowCytometry*• Fluorescence Microscopy*•Mass Spectrometry*•Microarray & Genomic Analysis• Nuclear Magnetic Resonance*•Tissue Resource and Applications Core•
*Managed by HSC

In the Works:

In an ongoing effort to broadly support the Cancer Center community, the Huntsman Cancer Institute through the Cancer Center Support Grant will again provide research funds to the Nuclear Control Program. These funds, awarded FY 11, are intended to help fulfill the mission of the Nuclear Control Program. More details to come.

NC Programmatic Funds (FY 10):

Mario Capecchi  Establishing preclinical testing unit for genetic mouse models of sarcoma [collaborators: Kevin Jones, Stephen Lessnick, Sunil Sharma [IDT], Lor Randall [IDT]]

Evan Johnson  High-throughput genomic experiments [collaborator: Brad Cairns]

Jared Rutter  Genetic and biochemical analysis of new SDH assembly factors in yeast and mammalian cells [collaborator: Josh Schiffman [CCPS]]

For those who missed it, follow this link to read about new and exciting Nuclear Control initiatives (featured in the last issue of the Beacon).

Future meetings will highlight groups of members with common interests in areas supported by the NC program.

Please let us know of emerging projects, new grants, new collaborations, or ways that we (or the Cancer Center more generally) could enhance or facilitate your efforts.

Note: When submitting manuscripts in which Cancer Center Supported Cores have been used, please include a statement along these lines in the acknowledgements: “We acknowledge the use of core facilities supported by P30 CA042014 awarded to Huntsman Cancer Institute.”

FYI, here are links to NCI RFAs and PAs. More information about CCSG can be found here.