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Scientific Organizers: Junjie Chen, Karlene A. Cimprich and Michael B. Yaffe

January 30 – February 4, 2011

Keystone Resort • Keystone, Colorado • USA

Keynote Speakers: David M. Livingston, Dana-Farber Cancer Institute, USA

“Genomic Instability and Breast Cancer”

Stephen J. Elledge. Harvard-Partners Center for Genetics and Genomics, USA

“The DNA Damage Response: Making it Safe to Play with Knives”

Session Topics: • DNA Damage Signaling: Networks and Systems Approaches • Workshop 1: Checkpoint Controls • Mechanism of DNA Damage Signaling and DNA Repair • Advancement in DNA Damage Response • Workshop 2: DNA Repair • DNA Repair: Stem Cells, Senescence and Aging • Models of DNA Damage Repair and Therapy • Expanding Dimensions of Genomic Instability and Cancer Therapy • Post-translational Regulation and Modifications Involved in DNA Damage Response • Workshop 3: Study of DNA Damage Response at the Organ Level • Genomic Instability, Cancer, and Therapy

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Evolutionary Developmental Biology

Scientific Organizers: Sean B. Carroll, Trisha Wittkopp and Nicole King

February 27 – March 3, 2011

Granlibakken Resort • Tahoe City, California • USA

Keynote Speaker: Neil Shubin, University of Chicago, USA

“Fossils, Genes and the Evolution of the Vertebrate Limb”

Session Topics: • Evolution in Populations • The Origins of Complexity • Genetic Architecture of Trait Evolution • Speciation and Developmental Disruption • Evolution of Regulatory Networks • Discussion: Research Frontiers in Evo-Devo • Macromutation

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Environmental Genomics and Disease Susceptibility

Scientific Organizers: Randy L. Jirtle, Moshe Szyf and Frederick L. Tyson

March 27 – April 1, 2011

Grove Park Inn Resort & Spa • Asheville, North Carolina • USA

Keynote Speaker: Matt Ridley, Blagdon Seafront, Burn, UK

“Nature vs. Nurture”

Session Topics: • Fetal Origins of Adult Disease Susceptibility • Epigenetic Mechanisms of Gene Regulation • In vitro Fertilization, Cloning and Stem Cells • Postnatal Epigenetic Programming of the Brain • Epigenetics and Complex Diseases • Epigenetic Transgenerational Inheritance • Epigenetics and Neurological Disorders • Mammalian Evolution and Disease Susceptibility

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