MONDAY, SEPTEMBER 21

Keynote Address
Karlene A. Cimprich, Stanford University, USA
The Causes and Consequences of Replication Stress

Replication and Cell Cycle Dependent Mechanisms of Genome Stability
David Cortez, Vanderbilt University School of Medicine, USA
Mechanisms, Regulation, and Consequences of Fork Remodeling
Helle D. Ulrich, Institute of Molecular Biology, Germany
GLOE-Seq – A New Genomic Tool to Map Replication Patterns and DNA Lesions with Nucleotide Resolution
David Pellman, Dana-Farber Cancer Institute, USA
Mechanisms Driving the Rapid Evolution of Cancer Genomes
André Nussenzweig, NCI, National Institutes of Health, USA
Mechanisms that Maintain Genome Stability

Mechanisms of Recombination and Repair
Lorraine S. Symington, Columbia University, USA
Initiation of DNA End Resection by the Mre11 Complex
Maria Jasin, Memorial Sloan Kettering Cancer Center, USA
BRCA Control of Homologous Recombination and Replication Fork Protection
Barry P. Sleckman, University of Alabama Birmingham School of Medicine, USA
The Regulation of Homologous Recombination in G1-Phase Cells
Patrick M. Sung, University of Texas Health Science Center at San Antonio, USA
Reconstitution of Homologous Recombination Pathways
Dipanjan Chowdhury, Dana-Farber Cancer Institute, Harvard Medical School, USA
Competition between DNA Repair Mechanisms
Mirit Aladjem, NCI, National Institutes of Health, USA
Replication Origin Modulation: Preventing Runaway DNA Synthesis to Insure Genomic Stability

Poster Session

TUESDAY, SEPTEMBER 22

RNA Mechanisms of Genome Stability
Joachim Lingner, École Polytechnique Fédérale de Lausanne, Switzerland
How the Long Noncoding RNA TERRA Associates with Telomeres via R-Loops
Irene Chiolo, University of Southern California, USA
Nuclear and Chromatin Dynamics for Heterochromatin Repair
Lee Zou, Harvard Medical School, USA
A Surprising Role of RNA Transcripts in Homologous Recombination
Gaëlle Legube, Center for Integrative Biology, France
Chromatin and Chromosome Dynamics at DNA Double Strand Breaks

Geneviève Almouzni, Centre National de la Recherche Scientifique, France

DNA Repair Mechanisms in Cancer
J. Ross Chapman, University of Oxford, UK
Molecular Interplay between BRCA1-BARD1 Complexes and the 53BP1 Pathway
Daniel Durocher, Lunenfeld-Tanenbaum Research Institute, Canada
Navigating the Genetic Networks Underpinning Genome Integrity
Nima Mosammaparast, Washington University in St. Louis, USA
New Players in the Alkylation Damage Response
Roger Greenberg, University of Pennsylvania, USA
Chromatin Accessibility - A New Vulnerability in BRCA Mutant Cancers

EMERGING CONCEPTS IN GENOME STABILITY
Katharina Schlacher, MD Anderson Cancer Center, USA
Mitochondrial Replication Stability and Inflammation
Anindya Dutta, University of Virginia, USA
Strange Tales of Genomic Instability: eccDNAs and Life without ORC

Industry Panel Discussion
Scott Pesiridis, GSK, USA
Cory Johannessen, Novartis, USA
Josep V. Forment, AstraZeneca, UK
Katya Marjon, Agios Pharmaceuticals, USA
Robert T. Abraham, Vividion Therapeutics, USA

Closing Remarks (Organizers)