



DNA Replication and Recombination

April 2–6, 2017 | Santa Fe Community Convention Center | Santa Fe, New Mexico | USA

Scientific Organizers:

John F.X. Diffley, Cancer Research UK, London Research Institute, UK

Anja Groth, University of Copenhagen, Denmark

Scott Keeney, HHMI, Memorial Sloan-Kettering Cancer Center, USA

Joint with the meeting on **Genomic Instability and DNA Repair**

DNA replication and recombination are common to all cells. Errors in these processes lead to many diseases in humans, including cancer, and many fundamental questions are still unresolved. Due to recent technical advances in microscopy and other techniques, these dynamic processes can now be studied in time and space in both prokaryotes and eukaryotes. Moreover, breakthroughs in the biochemical reconstitution of processes in DNA replication and recombination repair as well as single particle electron microscopy promise to reveal new mechanisms at near-atomic resolution; and new DNA sequencing technologies make it possible to study these key processes in great detail. Mechanistic similarities across the three domains of life provide new basic principles while differences identify potential targets for therapeutic intervention. The Keystone Symposia “DNA Replication and Recombination” meeting has historically been one of the premiere meetings in this field and one of the very few that brings together scientists working in replication and recombination across all life forms. Because of the close relationship between DNA replication and recombination and their importance for genome stability, this meeting will be held jointly with the Keystone Symposia meeting on “Genomic Instability and DNA Repair.” Talks at the “DNA Replication and Recombination” meeting will focus on the mechanism and regulation of these processes, with an emphasis on multiple organisms and multiple approaches. Talks in joint sessions will center on the metabolism of stalled replication forks and the importance of chromatin in replication, recombination and genome stability.


Session Topics:

- Replication/Repair Structure and Function
- Starting Recombination
- Interplay between Chromatin Structure and DNA Replication/Repair (Joint)
- Regulating Recombination
- Replication Fork Progression and Restart
- Replication Initiation Mechanisms
- Replication Fork Establishment and Replication Coupled Repair (Joint)
- Finishing Recombination

Scholarship Application & Discounted Abstract Deadline: December 5, 2016

Abstract Deadline: January 12, 2017

Discounted Registration Deadline: February 2, 2017



Note: Scholarships are available for graduate students and postdoctoral fellows and are awarded based on the abstract submitted.

Upper image courtesy of: The Web site of the National Cancer Institute (<http://www.cancer.gov>)

Meeting Hashtag: #KSdna

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KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

DNA Replication and Recombination (Z2)

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Genomic Instability and DNA Repair (Z1)

Scientific Organizers: Julia Promisel Cooper, Marco F. Foiani and Geneviève Almouzni

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SUNDAY, APRIL 2

Arrival and Registration

MONDAY, APRIL 3

Welcome and Keynote Session (Joint)

***Julia Promisel Cooper**, NCI, National Institutes of Health, USA

***Scott Keeney**, HHMI/Memorial Sloan Kettering Cancer Center, USA

Tatsuya Hirano, RIKEN, Japan

Condensin-Based Chromosome Organization

Johannes C. Walter, Harvard Medical School, USA

Mechanisms of Replication-Coupled Repair

Replication/Repair Structure and Function (Z2)

***John F.X. Diffley**, Francis Crick Institute, UK

Michael E. O'Donnell, Rockefeller University, USA

Structure and Function of the Eukaryotic Replisome

Tyler H. Stanage, University of Wisconsin-Madison, USA

Short Talk: The Escherichia coli RarA Protein is Involved in the Switch between DNA Replication and Translesion Synthesis in vivo

Karlene A. Cimprich, Stanford University, USA

When RNA Meets DNA: Dangerous Liaisons in the Genome

Alessandro Costa, Francis Crick Institute, UK

Cryo-EM Approaches to Understanding the Eukaryotic Replisome

Matthew L. Bochman, Indiana University, USA

Short Talk: Hrq1, The Yeast Homolog of RecQ4, Inhibits Telomerase Activity on Long Telomeres

Mechanisms of DNA Repair (Z1)

***Timothy C. Humphrey**, University of Oxford, UK

Wei Yang, NIDDK, National Institutes of Health, USA

Structural Insights into Translesion DNA Polymerases

James E. Haber, Brandeis University, USA

Short Talk: Rad51-Mediated Double-Strand Break Repair and Mismatch Correction of Highly Diverged Substrates

Joseph J. Loparo, Harvard Medical School, USA

Short Talk: Single-Molecule Imaging of Non-Homologous End Joining

Michael D. Stone, University of California, Santa Cruz, USA

Mechanical Transitions in Long Duplex Telomere DNA Molecules

Fena Ochs, University of Copenhagen, Denmark

Short Talk: Dynamic Chromatin Superstructures Safeguard Integrity of Nuclear Compartments Challenged by DNA Breakage

Workshop 1: Recombination and Repair (Z2)

Tracey E. Beyer, Biotech Research and Innovation Centre, Denmark
Ontogeny of Genome Rearrangements in Budding Yeast

***Simon N. Powell**, Memorial Sloan Kettering Cancer Center, USA
Replication Fork Cleavage Occurs within 100bp from Local ATM Signaling of Site-Specific DNA Replication Block in Human Cells

Erin Hannah Sybouts, University of Texas Health Science Center at San Antonio, USA

Recombination and BLM Helicase Compensate for Replication Fork Defects in the Absence of 53BP1 Protein

Shane McDevitt, Temple University Lewis Katz School of Medicine, USA

Mechanisms of RNA-Transcript Templated DNA Recombinational Repair Promoted by RAD52

Susanne S. C. Bantele, Max Planck Institute of Biochemistry, Germany

Regulation of the Conserved Chromatin Remodeler

Fun30SMARCAD1 at DNA Double-Strand Breaks

Walter J. Chazin, Vanderbilt University, USA

Mechanisms for Counting and Handoff by Human DNA Primase- A Role for the 4Fe-4S Cluster?

Holger Puchta, Karlsruhe Institute of Technology, Germany
The RTR Complex Partner RMI2 and the DNA Helicase RTEL1 Are Both Independently Involved in Preserving the Stability of 45S rDNA Repeats in Arabidopsis thaliana

Christian Biertuempfel, Max Planck Institute of Biochemistry, Germany

DNA Recognition Features of Human Holliday Junction Resolvase GEN1

Workshop 1: Genome Instability and DNA Repair I (Z1)

***James E. Haber**, Brandeis University, USA

Elena Balkanska-Sinclair, Duke University, USA

The BRD4-NUT Fusion Protein from Nut-Midline Carcinoma modulates DNA Damage Signaling and Ionizing Radiation Response

Michael M. Cox, University of Wisconsin-Madison, USA

Ionizing Radiation Resistance in Experimentally Evolved Escherichia coli Populations

Nitika Taneja, NCI, National Institutes of Health, USA

SNF2 Family Protein Fft3 Suppresses Nucleosome Turnover to Promote Epigenetic Inheritance and Proper Replication

Ryan M. Baxley, University of Minnesota, USA

Progressive Genomic Instability and Telomere Erosion in Human Cells following Inactivation of a Single MCM10 Allele

Michael H. Hauer, Friedrich Miescher Institute for Biomedical Research, Switzerland

Histone Degradation in Response to DNA Damage Enhances Chromatin Dynamics and Recombination Rates

Mariano Labrador-San Jose, University of Tennessee, USA

Components of the DNA Damage Response Pathway, ATR and ATM, Modulate Chromatin Insulator Activity through Phosphorylation of Histone H2Av at Insulator Sites

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Mitch McVey, Tufts University, USA

Coordination of ATPase and Polymerase Activities of Drosophila DNA Polymerase Theta during Interstrand Crosslink and Alternative End-Joining Repair of Double-Strand Breaks

Hilda A. Pickett, Children's Medical Research Institute, Australia
BLM and SLX4 Play Opposing Roles in Recombination-Dependent Replication at Human Telomeres

Starting Recombination (Z2)

***Bernard de Massy**, Institut de Génétique Humaine, France

Scott Keeney, HHMI/Memorial Sloan Kettering Cancer Center, USA
Breaking and Chewing DNA during Meiosis

Florencia M. Pratto, NIDDK, National Institutes of Health, USA
Linking Replication and Meiotic Recombination Initiation in Mammals

Kara A. Bernstein, University of Pittsburgh School of Medicine, USA
Short Talk: The Function of the Shu Complex and the Rad51 Paralogs in Repair of Replication Intermediate by Promotion of Rad51 Presynaptic Filament Assembly

Maria Jasin, Memorial Sloan Kettering Cancer Center, USA
Protecting the Genome by Homologous Recombination

Sofija Mijic, Institute of Molecular Cancer Research, Switzerland
Short Talk: Replication Fork Reversal Triggers Fork Degradation in BRCA2-Defective Cells

RNA Metabolism and Genome Stability (Z1)

***Hengyao Niu**, Indiana University Bloomington, USA

Vihandha Wickramasinghe, Peter MacCallum Cancer Centre, Australia
Effects of Altered RNA Processing on Genome Stability and the Proteome

Frédéric L. Chedin, University of California, Davis, USA
Short Talk: R-Loop Formation is a Hallmark of Active Early Replication Origins in Mammalian Genomes

Julius Brennecke, IMBA - Institut für Molekulare Biotechnologie GmbH, Austria
An RNA-Based Genome Immune System Safeguards Genome Stability

Eric A. Hunt, New England Biolabs, USA
Short Talk: Prokaryotic Argonauts and their Potential as New Molecular Tools

Alice Meroni, University of Milan, Italy
Short Talk: DNA Polymerase ϵ Sensitizes Cells to Nucleotide Pool Deprivation in Absence of RNase H

Francesca Storici, Georgia Institute of Technology, USA
Short Talk: Double-Strand Break Repair by Transcript RNA Is Stimulated by Rad52 and Requires Limited End Resection

Poster Session 1

TUESDAY, APRIL 4

Interplay between Chromatin Structure and DNA Replication/Repair (Joint)

***Jennifer A. Cobb**, University of Calgary, Canada

***Anja Groth**, University of Copenhagen, Denmark

Geneviève Almouzni, Centre National de la Recherche Scientifique, France

Shaping Chromatin in the Nucleus, the Bricks and the Architects

Gary Karpen, Lawrence Berkeley National Laboratory, University of California, Berkeley, USA

Regulation of DNA Repair in Heterochromatin and Euchromatin

Francesca Mattioli, HHMI/Colorado University Boulder, USA
Short Talk: DNA-Mediated Association of Two Histone-Bound CAF-1 Complexes Drives Tetrasome Assembly in the Wake of DNA Replication

Robert A. Martienssen, Cold Spring Harbor Laboratory, USA
RNAi Promotes Heterochromatic Silencing through Replication-Coupled Release of RNA Polymerase II

Bernard de Massy, Institut de Génétique Humaine, France
The Control of Initiation of Meiotic Recombination by PRDM9

Philipp Oberdoerffer, NCI, National Institutes of Health, USA
Short Talk: Replication Stress Shapes a Protective Chromatin Environment Across Fragile Genomic Regions

Regulating Recombination (Z2)

***Xiaolan Zhao**, Memorial Sloan Kettering Cancer Center, USA

Lorraine S. Symington, Columbia University, USA
DNA End Resection and Repair Pathway Choice

Jennifer A. Cobb, University of Calgary, Canada
Nej1 Regulates Repair Pathway Choice by Inhibiting Dna2-Sgs1 Mediated Resection

Aurele Piazza, University of California, Davis, USA
Short Talk: Multi-Invasions Are Recombination Byproducts that Induce Chromosomal Rearrangements

Eric C. Greene, Columbia University, USA
Single-Molecule Studies of Recombination Pathways

Sneha Saxena, Indian Institute of Science, India
Short Talk: RAD51 Paralog XRCC2 Suppresses Pathological Replication Fork Progression

Cell Cycle Regulation of DNA Damage Response (Z1)

***Frédéric L. Chedin**, University of California, Davis, USA

Tanya T. Paull, University of Texas at Austin, USA
Double-Strand Break Repair Factors and R-Loop-Mediated Genomic Instability

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David Cortez, Vanderbilt University School of Medicine, USA
Regulation of Replication Fork Stability by Single-Stranded DNA Binding Proteins

Kyle M. Miller, USA
Chromatin Regulation of the DNA Damage Response

Michael P. Sheetz, Mechanobiology Institute, National University of Singapore, Singapore

Short Talk: DNA Damage Causes Rapid Accumulation of Phosphoinositides to Recruit ATR but not ATM

Linda J. Kenney, National University of Singapore, Singapore
Short Talk: Salmonella Typhimurium forms Biofilms on Solid Tumors

Poster Session 2

WEDNESDAY, APRIL 5

Replication Fork Progression and Restart (Z2)

***Anne D. Donaldson**, University of Aberdeen, UK

Kenneth J. Marians, Memorial Sloan Kettering Cancer Center, USA
Imaging Individual Replisomes Reveals Independence and Decoupling of Polymerases During Replication

Anja Groth, University of Copenhagen, Denmark
Chromatin Replication and Epigenome Maintenance

Alberto Ciccia, Columbia University, USA
Short Talk: Restoration of Fork Stability in BRCA1- and BRCA2-Deficient Cells

Xiaolan Zhao, Memorial Sloan Kettering Cancer Center, USA
Smc5/6-Mediated Control of Recombinational Repair is Critical for Genome Duplication

Advaita Madireddy, Albert Einstein College of Medicine, USA
Short Talk: FANCD2 Facilitates DNA Replication through Common Fragile Sites

Joseph L. Stodola, Washington University School of Medicine, USA
Short Talk: Kinetic Analysis of Lagging Strand Replication and Okazaki Fragment Maturation

Joseph Yeeles, MRC Laboratory of Molecular Biology, UK
Short Talk: How the Eukaryotic Replisome Responds to DNA Damage in the Leading- and Lagging-Strand Templates

Nuclear Dynamics and Genome Stability (Z1)

***Arnab Ray Chaudhuri**, National Institutes of Health, USA

Marco F. Foiani, Istituto FIRC di Oncologia Molecolare, Italy
An Integrated ATR, ATM and mTOR-Mechanical Network Controlling Nuclear Plasticity and Cell Migration

Angela Taddei, Institut Curie, France
Nuclear Organization and Chromatin Status Modulate Homologous Recombination Efficiency and Outcome

Irene Chiolo, University of Southern California, USA
Short Talk: Highways for Repair: Nuclear Myosins and Actin Filaments Relocalize Heterochromatic DNA Breaks to the Nuclear Periphery

Martin W. Hetzer, The Salk Institute, USA
How the Nuclear Membrane Controls Genome Function

Emmanuelle Fabre, Hopital St Louis, France
Short Talk: DNA Damage Increases Chromatin Stiffening in Budding Yeast

Neil T. Umbreit, Dana-Farber Cancer Institute, USA
Short Talk: Chromosome Bridge Resolution Requires Mechanical Forces from Actin-Based Contractility

Peter Ly, University of California, San Diego, USA
Short Talk: Mitotic Errors Promote Chromosome Shattering and DNA Break Repair by Non-Homologous End Joining

Poster Session 3

Replication Initiation Mechanisms (Z2)

***Kenneth J. Marians**, Memorial Sloan Kettering Cancer Center, USA

Stephen P. Bell, Massachusetts Institute of Technology, USA
Mechanism and Timing of Mcm2-7 Ring Closure During Origin Licensing

Stephen D. Bell, Indiana University, USA
DNA Replication in the Archaea

Heath Murray, Newcastle University, UK
Short Talk: A New Bacterial Replication Origin Element Specifies Single-Strand Initiator Binding

Anne D. Donaldson, University of Aberdeen, UK
The Conserved Role of Rif1 as a Substrate-Targeting Subunit of Protein Phosphatase 1

Dominik Boos, University of Duisburg-Essen, Germany
Short Talk: MTBP Is an Essential Replication Initiation Factor with Vertebrate-Specific and Sld7-Like Features

DNA Repair and Human Diseases (Z1)

***Hilda A. Pickett**, Children's Medical Research Institute, Australia

Agnel Sfeir, New York University School of Medicine, USA
Single-Molecule Analysis of mtDNA Replication Uncovers the Basis of the Common Deletion

Cecilia Cotta-Ramusino, Editas Medicine, USA
Short Talk: Characterization of the Interplay between DNA Repair and CRISPR/Cas9-Induced DNA Lesions at an Endogenous Locus

Simon J. Boulton, London Research Institute, Clare Hall Laboratories, UK
Mechanistic Insights into Telomere Dysfunction Disorders

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Madalena Tarsounas, University of Oxford, UK

Short Talk: MUS81 Nuclease Activity Is Essential for Replication Stress Tolerance and Chromosome Segregation in BRCA2-Deficient Cells

Janet Partridge, St Jude Children's Research Hospital, USA

Short Talk: Histone H3G34R Mutation Causes Replicative Stress, Defective Homologous Recombination and Genomic Instability in Fission Yeast

THURSDAY, APRIL 6

Replication Fork Establishment and Replication-Coupled Repair (Joint)

***Jeannine Gerhardt**, Weill Cornell Medicine, USA

***Karlene A. Cimprich**, Stanford University, USA

James M. Berger, Johns Hopkins University School of Medicine, USA
Physical Mechanisms for Initiating DNA Replication in Cells

Agata Smogorzewska, Rockefeller University, USA
Stress Response at the Replication Fork

Eric J. Brown, Perelman School of Medicine, University of Pennsylvania, USA

Short Talk: Characterizing Replisome Ubiquitination upon Fork Stalling

André Nussenzweig, NCI, National Institutes of Health, USA
DNA Breaks and End-Resection Measured Genome-Wide by End Sequencing (END-seq)

Helle D. Ulrich, Institute of Molecular Biology, Germany
Coordination of DNA Damage Bypass with Genome Replication and Checkpoint Signaling

Stephane Koundrioukoff, Institute Gustave Roussy, France
Short Talk: DNA Replication Compensation: A Two Steps Mechanism

Workshop 2: Replication (Z2)

***Linda B. Bloom**, University of Florida, USA
Active Sliding Clamp Opening in Three Steps

Christopher Sansam, Oklahoma Medical Research Foundation, USA
DNA Replication Timing during Development Anticipates Transcriptional Programs and Parallels Enhancer Activation

Boris Pfander, Max Planck Institute of Biochemistry, Germany
Robust Replication Control by Temporal Gaps between Licensing and Firing Phases

Hasan Yardimci, Francis Crick Institute, UK
Super-Resolution Fluorescence Imaging of DNA Replication Intermediates

Jon Baxter, University of Sussex, UK
Transcription Promotes Replication Fork Rotation and Double-Stranded DNA Intertwining via a Cohesin-Dependent Pathway

Ivan Psakhye, IFOM, FIRC Institute of Molecular Oncology, Italy
DDK-Mediated Regulation of the deSUMOylating Enzyme Ulp2 Facilitates DNA Replication Initiation

Workshop 2: Genome Instability and DNA Repair II (Z1)

***Michael P. Sheetz**, Mechanobiology Institute, National University of Singapore, Singapore
Katharina Schlacher, MD Anderson Cancer Center, USA
Epigenetics-Enabled MRE11 Replication Restart by p53 Promotes Replication Pathway Homeostasis to Suppress Opportunistic Transcription Reprogramming

Kristijan Ramadan, University of Oxford, UK
SPRTN Is a Novel Mammalian Protease with the Central Role in DNA Replication-Coupled DNA-Protein Crosslink Repair

Jason Sheltzer, Cold Spring Harbor Laboratory, USA
Single-Chromosome Aneuploidy Commonly Functions as a Tumor Suppressor but Can Drive Genome Evolution

Manuel Stucki, University of Zurich, Switzerland
TOPBP1 Cooperate with TCOF1/Treacle in the Nucleolar Response to DNA Double-Strand Breaks

Maria Teresa Teixeira, CNRS – UMR 8226, France
Telomere Replication in the Absence of Telomerase: Failure, Repair and Adaptation

Johannes van den Boom, University of Duisburg-Essen, Germany
The AAA-ATPase VCP/p97 Extracts Sterically Trapped Ku70/80 Rings from DNA in Double-Strand Break Repair

Catherine H. Freudenreich, Tufts University, USA
Cytosine Deamination Mediates R-Loop Dependent CAG Repeat Fragility and Instability

Muwen Kong, University of Pittsburgh, USA
Auto-PARYlation Switches PARP1 Search Mechanism from Three-Dimensional Diffusion to Anomalous One-Dimensional Sliding

Finishing Recombination (Z2)

***Maria Jasin**, Memorial Sloan Kettering Cancer Center, USA

Stephen C. Kowalczykowski, University of California, Davis, USA
Molecular Functions and Single Molecule Studies of BRCA1, BRCA2, and RAD51 Paralog

Petr Cejka, University of Zurich, Switzerland
Processing of DNA Double-Strand Breaks for Repair by Homologous Recombination

***Maria Teresa Teixeira**, CNRS – UMR 8226, France

Titia de Lange, Rockefeller University, USA
How Shelterin Solves the Telomere End-Protection Problem

Kerry S. Bloom, University of North Carolina at Chapel Hill, USA
The Molecular Basis for the Centromere Spring

Nausica Arnoult, The Salk Institute for Biological Studies, USA
Short Talk: Regulation of DNA Repair Pathway Choice in S/G2 by the NHEJ Inhibitor CYREN

Julia Promisel Cooper, NCI, National Institutes of Health, USA
Telomeric Control of Kinetochores Assembly and Nuclear Envelope Breakdown

Meeting Wrap-Up: Outcomes

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Ralph Scully, Beth Israel Deaconess Medical Center, USA

Short Talk: Microhomology-Mediated Tandem Duplications form at Tus/Ter-Stalled Replication Forks in BRCA1 Mutant Cells

Stephen C. West, Francis Crick Institute, UK
Unresolved Recombination Intermediates as a Source of DNA Breaks and Chromosome Aberration

Telomeres and Centromeres (Z1)

and Future Directions (Organizers) (Z2)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Z1)

FRIDAY, APRIL 7

Departure