SATURDAY, MAY 30

3:00 pm - 5:00 pm	Registration
5:00 pm - 6:30 pm	Welcome Reception
SUNDAY, MAY 31	
7:30 am - 8:30 am	Breakfast
8:30 am - 8:40 am	Welcome Graham C. Walker, Massachusetts Institute of Technology
8:40 am - 12:20 pm	Session I: It All Starts with DNA Repair Chair: Priscilla K. Cooper
8:40 am - 8:45 am	Introduction of Keynote Address Priscilla K. Cooper, Lawrence Berkeley National Laboratory
8:45 am - 9:30 am	Keynote Address - Meandering through the Maze of Oxidative DNA Damage Susan S. Wallace, University of Vermont
9:30 am - 9:55 am	Mechanisms of Genomic Instability During Base Excision Repair Samuel H. Wilson, National Institute of Environmental Health Sciences, NIH
9:55 am - 10:20 am	Subpathways for Oxidative Damage Repair in the Mitochondrial Genome Sankar Mitra, University of Texas Medical Branch
10:20 am - 10:50 am	Coffee Break
	The following talks were selected from the abstracts:
10:50 am - 11:05 am	Structural Illumination of a MutY Glycosylase Reaction Coordinate Intermediate Sheila S. David, University of California
11:05 am - 11:20 am	Structure and DNA Binding of Alkylation Response Protein AidB Brandt F. Eichman, Vanderbilt University
11:20 am - 11:35 am	Thymine DNA Glycosylase is Required for Embryonic Development and DNA Demethylation in Mammals Alfonso Bellacosa, Fox Chase Cancer Center
11:35 am - 11:50 am	Arabidopsis ROS1 is a Non-Processive 5-methylcytosine DNA Glycosylase that Initiates Demethylation through an AP Endonuclease-Independent Excision Pathway Teresa Roldan-Arjona, University of Cordoba
11:50 am - 12:05 pm	The Role of MutS and MutL in Very Short Patch Repair in Escherichia coli Claire G. Cupples, University of Victoria
12:05 pm - 12:20 pm	Functional Redundancy and Uniqueness Among the Human RecQ Helicase Raymond Monnat, University of Washington

12:30 pm - 4:00 pm	Free Time
4:00 pm - 6:30 pm	Session II: Locating Lesions and Coordinating Repair Chair: Leon H. Mullenders
4:00 pm - 4:25 pm	Intersecting DNA Repair Pathways and Coordination with Transcription and Replication Priscilla K. Cooper, Lawrence Berkeley National Laboratory
4:25 pm - 4:50 pm	DNA Damage, Transcription Stalling and Cellular Responses Leon H. Mullenders, Leiden University Medical Center
4:50 pm - 5:15 pm	UV-Induced DNA Damage Response in Mammalian Cells Wim Vermeulen, Erasmus Medical Center
	The following talks were selected from the abstracts:
5:15 pm - 5: 30 pm	Dynamic Damage Searching by Nucleotide Excision Repair Proteins Investigated by Single-Molecule Fluorescence of Quantum Dot Labeled Proteins Ben Van Houten, University of Pittsburgh
5:30 pm - 5:45 pm	Molecular Basis of Multistep Damage Recognition in Mammalian Nucleotide Excision Repair Kaoru Sugasawa, Kobe University
5:45 pm - 6:00 pm	Structural and Functional Studies on the FeS Cluster Containing Nucleotide Excision Repair Helicase XPD Caroline Kisker, University of Wuerzburg
6:00 pm - 6:15 pm	Replisome Bypass of a Head-on RNA Polymerase is Facilitated by the Transcription-Coupled Repair Helicase Mfd Richard T. Pomerantz, Rockefeller University
6:15 pm - 6:30 pm	Transcription-Coupled Gene Amplification in E. coli: Is Adaptive Amplification Targeted to Specific Areas of the Genome in Response to Stress? Hallie Wimberly, Baylor College of Medicine
6:30 pm - 8:30 pm	Poster Session A/Networking Dinner
MONDAY, JUNE 1	
7:30 am - 8:30 am	Breakfast
8:30 am - 12:30 pm	Session III: Cellular Responses to DNA Damage Chair: Daniel Durocher
8:30 am - 8:35 am	Introduction of Keynote Address Peggy Hsieh, National Institute of Diabetes and Digestive and Kidney Diseases, NIH
8:35 am - 9:20 am	Cellular Responses to DNA Double-Strand Breaks Stephen P. Jackson, The Wellcome Trust and Cancer Research UK, The Gurdon Institute, University of Cambridge
9:20 am - 9:45 am	A Systems Biology Approach Identifies p53 as a Binary Switch that Re-wires DNA Damage Signaling-Response Pathways Michael B. Yaffe, David H. Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology

9:45 am - 10:10 am	ATM Signalling Relieves the Constraints to Double Strand Break Repair Caused by Higher order Chromatin Structure Penelope A. Jeggo, University of Sussex
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Regulatory Ubiquitylation at sites of DNA Double-Strand Breaks: From RNAi Screening to Human Disease Daniel Durocher, Samuel Lunenfeld Research Institute, Mount Sinai Hospital
11:05 am - 11:30 am	DNA Damage Signaling: Mechanisms and Role in Human Tumorigenesis and Treatment Response Jiri Bartek, Danish Cancer Society
	The following talks were selected from the abstracts:
11:30 am - 11:45 am	The ATM Protein Displays Distinct Spatial Dynamics at the Sites of DNA damage Paul S. Bradshaw, The Hospital for Sick Children
11:45 am - 12:00 pm	MicroRNA-Mediated Gene Silencing, a Novel Level of DNA Damage Response Regulation Joris Pothof, Erasmus University Medical Center
12:00 pm - 12:15 pm	A New Member of Genes, Mapo1, Involve in O ⁶ -Methylguanine Induced Apoptosis Masumi Hidaka, Fukuoka Dental College
12:15 pm - 12:30 pm	Cooperation between ATR/ATM and PolZeta/PolEta Pathways in Replication-Stressed Tissue Stem-Cell Niches John B. Hays, Oregon State University
12:30 pm - 4:00 pm	Free Time
4:00 pm - 6:30 pm	Session IV: Mutation and Mutagenesis Chair: Roger Woodgate
4:00 pm - 4:25 pm	Investigating the Mechansims of Spontaneous and Damage Induced Mutagenesis in Escherichia coli Roger Woodgate, Laboratory of Genomic Integrity, National Instituteof Child Health and Human Development, NIH
4:25 pm - 4:50 pm	Transcriptional Mutagenesis by 8-oxoguanine causes Ras Activation in Mammalian Cells Paul W. Doetsch, Emory University School of Medicine
4:50 pm - 5:15 pm	Balancing AID and DNA Repair During Somatic Hypermutation of Immunoglobulin Genes David G. Schatz, Yale University School of Medicine
	The following talks were selected from the abstracts:
5:15 pm - 5:30 pm	Biochemistry of DNA-cytosine Deaminases Required for Antibody Maturation and Retrovirus Restriction Ashok Bhagwat, Wayne State University
5:30 pm - 5:45 pm	Damage-Induced Localized Hypermutability Dmitry A. Gordenin, Natinal Institute of Environmental Health Sciences, NIH

5:45 pm - 6:00 pm	Error-Prone DNA Polymerase IV (DinB) and the Universal Stress-Responses of Escherichia coli Patricia L. Foster, Indiana University
6:00 pm - 6:15 pm	Nuclear Reorganization of DNA Mismatch Repair Proteins in Response to DNA Damage Chris Heinen, University of Connecticut Health Center
6:15 pm - 6:30 pm	Structure of the Endonuclease Domain of MutL: Unlicensed to Cut Alba Guarne, McMaster University
6:30 pm - 8:30 pm	Poster Session B/Networking Dinner
TUESDAY, JUNE 2	
7:30 am - 8:30 am	Breakfast
8:30 am - 12:30 pm	Session V: Unusual DNA Structures, Chromatin and DNA Repair Chair: Titia de Lange
8:30 am - 8:55 am	Unusual DNA Structures and Genetic Instability Karen Vasquez, University of Texas M.D. Anderson Cancer Center
8:55 am - 9:20 am	Mammalian Telomeres Resemble Fragile Sites and Require TRF1 for Efficient Replication Titia de Lange, Rockefeller University
9:20 am - 9:45	The Role of the RSC Chromatin Remodeling Complex in DNA Double Strand Break Repair Jessica A. Downs, University of Sussex
	The following talks were selected from the abstracts:
9:45 am - 10:00 am	Mechanistic Links between Tip60, ATM and Histone Methylation Codes During DNA Repair Brendan D. Price, Dana-Farber Cancer Institute
10:00 am - 10: 15 am	A Histone Code for NHEJ Repair Mediates Chemotherapy Resistance Robert Hromas, University of New Mexico Cancer Center
10:15 am - 10:45 am	Coffee Break
10:45 am - 11: 00 am	Genetic Dissection of The Mechanisms Underlying Telomere Associated Diseases: Impact of The TRF2 Telomeric Protein on Mouse Epidermal Stem Cells Gerdine J. Stout, Spanish National Cancer Research Center
11:00 am - 11:15 am	Transcriptional Processing of Non-Canonical DNA Structures Philip C. Hanawalt, Stanford University
11:15 am - 11:30 am	Incision-Dependent and Error-Free Repair of CAG/CTG Hairpins in Human Cells Guo-Min Li, University of Kentucky

11:30 am - 11:45 am	Nucleosome Remodeling Catalyzed by the Human hMSH2-hMSH6 Mismatch Recognition Complex Sarah Javaid, The Ohio State University
11:45 am - 12:00 pm	Interactions of MutY Homolog (MYH) with Checkpoint Sensor Hus1/Rad1/Rad9 and Histone Deacetylase Hst4 in Fission Yeast, Schizosaccharomyces pombe A-Lien Lu-Chang, University of Maryland
12:00 pm - 12:15 pm	Increased Reliance On DNA Repair In Malignant Gliomas With Hyperactive EGFR: A Proof of Principle In Targeting Non-Oncogene Addiction Clark C. Chen, Dana Farber Cancer Institute
12:15 pm - 12:30 pm	MRE11 Cleaves Topoisomerase 1-DNA Covalent Complexes to Promote Resistance to Camptothecin Elizabeth J. Sacho, University of Washington
12:30 pm - 4:00 pm	Free Time
4:00 pm - 6:20 pm	Session VI: Aging, Cancer and Human Disease Chair: Richard D. Wood
4:00 pm - 4:25 pm	DNA Damage, Cancer, Aging and the Survival Response that Promotes Longevity Jan H.J. Hoeijmakers, Erasmus University Medical Centre
4:25 pm - 4:50 pm	ERCC1-XPF Dependent DNA Repair: At the Cancer: Aging Interface Laura J. Niedernhofer, University of Pittsburgh School of Medicine
4:50 pm - 5:15 pm	Rad50 and XPD ATPase Machines and their Disease-Causing Mutations: Insights from Combined Genetic and Structural Analyses John A. Tainer, Visiting Professor, Lawrence Berkeley National Lab and Skaggs Institute for Chemical Biology
5:15 pm - 5:40 pm	Aberrant Base Excision Repair and Cancer Joann B. Sweasy, Yale University School of Medicine
5:40 pm - 6:05 pm	Acclerated Tumorigenesis in the Absence of DNA Polymerase Zeta Richard D. Wood, The University of Texas MD Anderson Cancer Center
	The following talks were selected from the abstracts:
6:05 pm - 6:20 pm	A DNA Polymerase-Delta Deletion Mutator Promotes Tumor Progression Lawrence A. Loeb, University of Washington
6:30 pm - 8:30 pm	Poster Session C/Networking Dinner
WEDNESDAY, JUNE 3	
7:30 am - 8:30 am	Breakfast

8:30 am - 12:30 pm	Session VII: Bypassing DNA Damage Chair: Robert P. Fuchs
8:30 am - 8:35 am	Introduction of Keynote Address Leona D. Samson, Massachusetts Institute of Technology
8:35 am - 9:20 am	Keynote Address - Modifications and Roles of Y-family DNA polymerases eta and kappa Alan R. Lehmann, University of Sussex
9:20 am - 9:45 am	The Dynamics of Translesion Synthesis in Vertebrate Cells Julian E. Sale, MRC Laboratory of Molecular Biology
9:45 am - 10:10 am	Timing and Spacing of Ubiquitin-Dependent DNA Damage Bypass Yasukazu Daigaku, Cancer Research UK, London Research Institute Clare Hall Laboratories
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	An Integrated View of Translesion Synthesis in E. coli Robert P. Fuchs, CNRS Marseilles
11:05 am - 11:30 am	Factors Required for Template-Switch Mediated Damage Bypass and their Regulation Dana Branzei, F.I.R.C. Institute of Molecular Oncology
	The following talks were selected from the abstracts:
11:30 am - 11:45 am	The following talks were selected from the abstracts: DNA Polymerase Zeta Operates in Two-Polymerase Mechanisms that Determine Accurate or Mutagenic Outcome of Translesion DNA Synthesis In Human Cells Zvi Livneh, Weizmann Institute of Science
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4:25 pm - 4:50 pm	Genetic and Epigenetic Mechanisms of Exposure-Induced Recombination Bevin P. Engelward, Massachusetts Institute of Technology
4:50 pm - 5:15 pm	A Robust DNA Repair System in D. radiodurans Miroslav Radman, Necker, University of Paris 5
	The following talks were selected from the abstracts:
5:15 pm - 5:30 pm	Directed Evolution of Extreme Radioresistance in E. coli MG1655 John R. Battista, Louisiana State University
5:30 pm - 5:45 pm	Characterization of ITPase Knockout Mouse Kunihiko Sakumi, Kyushu University
5:45 pm	Special Talk: Sydney Brenner Founding Father of Molecular Biology and Enfant Terrible Errol C. Friedberg, UT Southwestern Medical Center
6:30 pm - 8:30 pm	Poster Session D/Networking Dinner
THURSDAY, JUNE 4	
7:30 am - 8:30 am	Breakfast
8:30 am - 12:30 pm	Session IX: Repairing DNA Breaks Chair: Susan P. Lees-Miller
8:30 am - 8:55 am	Identification of Novel Components of Chromosomal DNA Strand Break Repair Keith W. Caldecott, University of Sussex
8:55 am - 9:20 pm	Structural Biology of DNA End Joining Tom Ellenberger, Washington University School of Medicine
9:20 am - 9:45 am	AdnAB: A New DSB-resecting Motor-Nuclease from Mycobacteria Stewart Shuman, Sloan-Kettering Institute
9:45 am - 10:10 am	Structure/Function Insights into the Role of DNA-PK in DNA Double Strand Susan P. Lees-Miller, University of Calgary
10:10 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Initiation of Double Strand Break Processing by Mre11/Rad50/Xrs2 Tanya T. Paull, University of Texas at Austin
11:05 am - 11:30 am	Spatio-Temporal Organization of DNA Single-Strand Break Repair by PARP, PARG and XRCC1 in Human Cells Akira Yasui, Tohoku University

11:30 am - 11:55 am	Holliday Junction Resolution Mediated by the Human GEN1 Protein Stephen C. West, Cancer Research UK, London Research Institute Clare Hall Laboratories
	The following talks were selected from the abstracts:
11:55 am - 12:10 pm	Phosphorylation Of FANCG At Serine 7 Acts As A Molecular Switch For Homologous Recombination Repair (HRR) In The Fanconi-BRCA Tumour Suppressor Pathway Nigel J. Jones, University of Liverpool
12:10 pm - 12:25 pm	Nuclear Proteins Involved in Mitochondrial Double-Strand Break Repair Lidza Kalifa, University of Rochester
12:30 pm - 4:00 pm	Free Time
4:00 pm - 6:25 pm	Session X: Replication Fidelity Chair: Thomas A. Kunkel
4:00 pm - 4:25 pm	Efficiency of Mismatch Repair of Replication Errors Made by Yeast DNA Polymerase δ Thomas A. Kunkel, National Institute of Environmental Health Sciences, NIH
4:25 pm - 4:50 pm	DNA Damage Recognition Wei Yang, National Institute of Diabetes and Digestive and Kidney Diseases, NIH
4:50 pm - 5:15 pm	Control and Function of Translesion DNA Polymerases Graham C. Walker, Massachusetts Institute of Technology
5:15 pm - 5:40 pm	Studies on the Mechanism of Eukaryotic Mismatch Repair and Possible Insights into the Nature of the Exo1-Independent Reaction Paul Modrich, Duke University Medical Center
	The following talks were selected from the abstracts:
5: 40 pm - 5:55 pm	MutS Recognition of DNA Titia K. Sixma, Netherlands Cancer Institute
5: 55 pm - 6:10 pm	Mechanism of Mismatch Repair Marina Elez, INSERM
6:10 pm - 6:25 pm	DNA Loop Formation By The Muts Mutl Protein Complex During Early Steps of DNA Mismatch Repair Joyce H. Lebbink, Erasmus Medical Center
8:00 pm - 12:00 pm	Closing Party