

Environmental Mutagen Society - Satellite Meeting
University of Washington, Seattle, Washington
August 31 - September 2, 2005

"Cell Lineages, Genetic Instability and Human Disease"
Organizers: Larry Loeb, Nancy Maizels and Ray Monnat

Wednesday, August 31

Keynote Address: Maynard Olson, University of Washington
Dinner, Lakeside Restaurant, Seattle

Thursday, September 1

Session 1: Mutagenesis and Repair

Chair: Nancy Maizels, University of Washington

Laura J. Niedernhofer, University of Pittsburgh — Nucleotide Excision Repair Battles Cancer & Aging

Thomas A. Kunkel, NIEHS — DNA Replication Fidelity

Bevin P. Engelward, Massachusetts Institute of Technology — Recombination Repair of Endogenous DNA Damage

Myron F. Goodman, University of Southern California — Error-prone Replication

Lunch

Session 2: Mutation and Genetic Instability in Cell Lineages

Chair: Raymond J. Monnat, Jr., University of Washington

Marcus Grompe, Oregon Health Sciences University — Stem Cells in Liver Regeneration and Repair

Norman Arnheim, University of Southern California — Human Germline Mutagenesis

Peter J. Stambrook, University of Cincinnati College of Medicine — Haplotypes, SNPs & Disease

Alan D. D'Andrea, Dana Farber Cancer Institute, Boston

— Lineage-specificity of Fanconi Gene Expression and Function in Disease

Poster Presentations

5:00 Boat Trip on Lake Washington with Light Supper

Friday, September 2

Session 3: Genetics and Epigenetics in Disease Causation and Therapy

Chair: C. Anthony Blau, University of Washington

Errol C. Friedberg, Southwestern Medical Center, University of Texas, Dallas

— The Role of Translesion DNA Synthesis in the Response to DNA Damage

John C. Schimenti, Cornell University

— Links between Meiotic Recombination and DNA Damage Response Pathways

Leon Mullenders, Leiden University Medical Center, Leiden, The Netherlands

— From initial DNA damage to cancer: lessons from mouse models.

Steven B. Baylin, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

— Epigenetic Modification of Gene Expression in Human Cancer

C. Anthony Blau, University of Washington

— Combining Genetic and Chemical Approaches to the Treatment of Human Disease

Lunch

Session 4: Aging and Mutations

Chair: Lawrence A. Loeb, University of Washington

Vihelm A. Bohr, Laboratory of Molecular Gerontology, National Institute on Aging

— Repair Pathways that Modulate Cancer and Aging

Denise Galloway, Fred Hutchinson Cancer Research Center

— Viral Modulation of Cancer and Senescence in Human Cells

Peter C. Rabinovitch, University of Washington

— Telomere Modulation of Genetic Instability and Senescence in Human Disease

George Martin, University of Washington

— The Lessons of History: What Evolution Teaches Us About the Biology of Aging and Cancer