

AGENDA

Thursday – Evening, October 19, 2006

4:00 - 5:30

**Fanconi Anemia 101: A Sophisticated Introduction to the
Science and Medicine of Fanconi Anemia**
Salons A and B

This session is intended especially for those new to Fanconi anemia research and clinical care. All attendees interested in an overview of unanswered questions, new research directions, and resources to support research on Fanconi anemia are welcome.

Introductions:

Grover C. Bagby, Jr., MD, Chair, FA Scientific Advisory Board
Oregon Health & Science University Cancer Institute, Portland, OR

Faculty:

Raymond Monnat, Jr., MD, FA Scientific Advisory Board
University of Washington, Seattle, WA

Akiko Shimamura, MD, PhD
Children's Hospital, Boston, MA

6:00 - 8:00

Welcome Drop-In Reception
Salon D
Poster Viewing
Salon D

Friday – Morning, October 20, 2006

7:00 - 8:00

Continental Breakfast
Foyer
Poster Viewing
Salon D

Plenary Session
Salons E, F, G, and H

Eighteenth Annual Fanconi Anemia Research Fund Scientific Symposium

- 8:00 - 8:15 **Welcome**
David Frohnmayer, Conference Moderator
Co-Founder, Fanconi Anemia Research Fund, Inc.
President, University of Oregon
Eugene, Oregon
- 8:15 - 8:30 **Introduction to the Symposium**
Grover C. Bagby, Jr., MD
Chair, Scientific Advisory Board
Fanconi Anemia Research Fund, Inc.
Director, Oregon Health & Science University Cancer Institute
Portland, Oregon
- 8:30 - 9:00 **Keynote Address**
Maura Gillison, MD
Johns Hopkins Kimmel Cancer Center
Baltimore, Maryland
- 9:00 - 9:15 Questions and Answers
- Session I:** ***Carcinogenesis and Cancer Prevention***
Chair: Eva C. Guinan, MD
Scientific Advisory Board, FA Research Fund
Dana-Farber Cancer Institute
Boston, Massachusetts
- 9:15 - 9:25 **Blanche P. Alter, MD, MPH, Clinical Genetics Branch, Division of
Cancer Epidemiology and Genetics, National Cancer Institute,
Rockville, Maryland: *Clinical and Molecular Features Associated with
Biallelic Mutations in FANCD1/BRCA2.***
- 9:25 - 9:30 Questions and Answers
- 9:30 - 9:40 **Petra Wilder-Smith, DDS, PhD, Beckman Laser Institute, University
of California, Irvine, California: *Non-invasive Early Diagnosis of Oral
Malignancy: The Effectiveness of Various Approaches.***
- 9:40 - 9:45 Questions and Answers
- 9:45 - 9:55 **Ruud H. Brakenhoff, PhD, Department of Otolaryngology and Head
and Neck Surgery, Vrije University, Amsterdam, The Netherlands:
*Genetic Progression of Fanconi Anemia/Squamous Cell Carcinoma and
Development of a Non-invasive Screening Method for Precursor Lesions.***
- 9:55 - 10:00 Questions and Answers
- 10:00 - 10:10 **Ian C. MacKenzie, DDS, PhD, Institute of Cell and Molecular
Medicine, Queen Mary University of London, London, United
Kingdom: *Stem Cell Patterns in Cell Lines Derived from Oral
Malignancies.***
- 10:10 - 10:15 Questions and Answers

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10:15 - 10:30	Break	
10:30 - 10:40	Wataru Sakai, PhD, Divisions of Human Biology and Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, Washington: <i>Mechanism of Acquired Cisplatin Resistance in Fanconi Anemia/BRCA Pathway-mutated Cancer.</i>	
10:40 - 10:45	Questions and Answers	
10:45 - 10:55	Laura E. Hays, PhD, Oregon Health & Science University Cancer Institute, Portland, Oregon: <i>A Potential Role for FANCD2 Suppression in Lung Carcinogenesis.</i>	
10:55 - 11:00	Questions and Answers	
11:00 - 11:10	Stefan Duensing, MD, University of Pittsburgh Cancer Institute, Pittsburgh, Pennsylvania: <i>The Fanconi Anemia Pathway Prevents Human Papillomavirus Type 16 E7 Oncoprotein-induced Chromosomal Instability.</i>	
11:10 - 11:15	Questions and Answers	
11:15 - 11:25	Markus Grompe, MD, Department of Molecular and Medical Genetics, Oregon Health and Science University, Portland, Oregon: <i>Cancer Prevention Strategies in Fanconi's Anemia.</i>	
11:25 - 11:30	Questions and Answers	
11:30 - 12:00	Session Forum	
12:00 - 1:00	<table border="1"><tr><td>Hosted Lunch <i>Salons A, B, and C</i> Poster Viewing <i>Salons D</i></td></tr></table>	Hosted Lunch <i>Salons A, B, and C</i> Poster Viewing <i>Salons D</i>
Hosted Lunch <i>Salons A, B, and C</i> Poster Viewing <i>Salons D</i>		

Friday – Afternoon, October 20, 2006

Session II:

Gene Discovery and Regulation

Chair: Christopher Mathew, PhD

Scientific Advisory Board, FA Research Fund

Guy's, King's, and St. Thomas' School of Medicine

London, United Kingdom

1:00 - 1:10	Alberto Ciccia, PhD, Genetic Recombination, Cancer Research UK, Clare Hall Laboratories, South Mimms, United Kingdom: <i>Identification of a Novel Partner Protein of HEF/FANC-M.</i>
1:10 - 1:15	Questions and Answers

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- 1:15 - 1:25 **Johan P. de Winter, PhD, Department of Clinical Genetics, Vrije University, Amsterdam, The Netherlands:** *PALB2, A New Member of the FA/BRCA Pathway.*
- 1:25 - 1:30 Questions and Answers
- 1:30 - 1:40 **Nazneen Rahman, MD, PhD, The Institute of Cancer Research, Sutton, Surrey, United Kingdom:** *Biallelic Mutations in PALB2 Cause Fanconi Anemia and Predispose to Childhood Cancer.*
- 1:40 - 1:45 Questions and Answers
- 1:45 - 1:55 **Thiyam Ramsing Singh, PhD, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio:** *FAAP16: A Novel Member of the FA Core Complex.*
- 1:55 - 2:00 Questions and Answers
- 2:00 - 2:15 **Session Forum**
- 2:15 - 2:25 **Dongyi Xu, PhD, National Institute on Aging, NIH, Baltimore, Maryland:** *Genetic Analysis of New Components of the FA Core Complex in Chicken DT40 Cells.*
- 2:25 - 2:30 Questions and Answers
- 2:30 - 2:40 **Spencer Collis, PhD, Cancer Research UK, Clare Hall Laboratories, South Mimms, United Kingdom:** *hCLK2 is a Novel S-phase Checkpoint Component that Orchestrates FA and Homologous Recombination Repair Responses.*
- 2:40 - 2:45 Questions and Answers
- 2:45 - 3:00 **Break**
- 3:00 - 3:10 **Anindya Dutta, MD, PhD, Biochemistry and Molecular Genetics, University of Virginia, Charlottesville, Virginia:** *Discovery of the E2 Conjugase Upstream from the Fanconi Anemia Core Complex.*
- 3:10 - 3:15 Questions and Answers
- 3:15 - 3:25 **Martin A. Cohn, PhD, Radiation Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts:** *Purification of a Protein Complex Containing the USP1 Enzyme and a New Co-factor UAF1 Identifies a New Player in FA.*
- 3:25 - 3:30 Questions and Answers
- 3:30 - 3:40 **Maria Castellà, PhD Student, Department of Genetics and Microbiology, University of Barcelona, Barcelona, Spain:** *Does Gene Therapy Lead to Telomere Shortening in Fanconi Anemia?*
- 3:40 - 3:45 Questions and Answers
- 3:45 - 4:15 **Session Forum**

Eighteenth Annual Fanconi Anemia Research Fund Scientific Symposium

4:15 - 7:00

Poster Presentation

The author of each even-numbered poster will be available to answer questions and discuss the poster from 4:15 - 5:30.

The author of each odd-numbered poster will be available to answer questions and discuss the poster from 5:30 - 7:00.

Salon D

Wine and Hors d'Oeuvres, Hosted

Salon D

7:00 - 9:00

Symposium Dinner

The Symposium Dinner is open to all registrants.

Salons A, B, and C

Saturday, Morning, October 21, 2006

7:00 - 8:00

Continental Breakfast

Foyer

Poster Viewing

Salon D

Session III:

Hematopoiesis, Stem Cell Transplantation, and Therapeutics

Chair: David A. Williams, MD

Scientific Advisory Board, FA Research Fund

Cincinnati Children's Hospital Medical Center

Cincinnati, Ohio

8:00 - 8:10

Beiqing Pan, MD, PhD, Mount Sinai School of Medicine, New York, New York: *Generation of Fanconi Anemia Phenotype Using Human Embryonic Stem Cells.*

8:10 - 8:15

Questions and Answers

8:15 - 8:25

Fernando Pinto, MD, Hospital Saint Louis, Paris, France: *The Challenge of Diagnosing Fanconi Anemia in Patients with Bone Marrow Failure: A Study in 82 Bone Marrow Failure Patients.*

8:25 - 8:30

Questions and Answers

8:30 - 8:40

Jakub Tolar, MD, PhD, Pediatric Hematology-Oncology and Blood and Marrow Transplantation, University of Minnesota, Minneapolis, Minnesota: *Hematopoietic Stem Cell Mosaicism in Fanconi Anemia.*

8:40 - 8:45

Questions and Answers

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8:45 - 8:55	Margaret MacMillan, MD, Pediatric Blood and Marrow Transplantation, University of Minnesota, Minneapolis, Minnesota: <i>Thymic Shielding During Total Body Irradiation (TBI) Reduces Risk of Infection After Alternate Donor HCT in FA Patients.</i>
8:55 - 9:00	Questions and Answers
9:00 - 9:15	Session Forum
9:15 - 9:25	Peter Kurre, MD, Oregon Health & Science University, Doernbecher Children's Hospital, Portland, Oregon: <i>In situ Delivery of HIV-lentivector Particles to the Bone Marrow - A Novel Approach to Hematopoietic Stem Cell-directed Gene Therapy in FA.</i>
9:25 - 9:30	Questions and Answers
9:30 - 9:40	Alena A. Chekmasova, PhD, Department of Pathology, Jefferson Medical College, Thomas Jefferson University, Philadelphia, Pennsylvania: <i>Hematopoietic Stem Cell Gene Delivery Using SV-40-derived Vectors.</i>
9:40 - 9:45	Questions and Answers
9:45 - 9:55	Anna C. Pulliam, Graduate Student, Indiana University School of Medicine, Indianapolis, Indiana: <i>AMD3100 and G-CSF Synergize to Promote Repopulating Stem Cell Mobilization in Fancc -/- and Fanca -/- Mice.</i>
9:55 - 10:00	Questions and Answers
10:00 - 10:15	Break
10:15 - 10:25	Robert J. Perry, BSc, Athersys, Inc., Cleveland, Ohio: <i>Clinical Scale Expansion of Human Pluripotent Stem Cells to Support High Risk Allogeneic Bone Marrow Transplant.</i>
10:25 - 10:30	Questions and Answers
10:30 - 10:40	Reinhard Kalb, MS, Department of Human Genetics, University of Wuerzburg, Wuerzburg, Germany: <i>Prenatal Diagnosis in FA-D2 Families.</i>
10:40 - 10:45	Questions and Answers
10:45 - 11:15	Session Forum
11:15 - 1:15	Poster Viewing <i>Salon D</i>
11:15 - 1:15	Joint Meeting: Board of Directors and Scientific Advisory Board, Fanconi Anemia Research Fund <i>Seneca Boardroom</i>

Eighteenth Annual Fanconi Anemia Research Fund Scientific Symposium

12:00 - 1:00

Hosted Lunch
Salons A, B, and C

Saturday - Afternoon, October 21, 2006

Session IV:

Functions of Fanconi Anemia Proteins: Section I

Chair: Larry H. Thompson, PhD

Biosciences Directorate

Lawrence Livermore National Laboratory

Livermore, California

1:15 - 1:25

Robert M. Brosh, PhD, National Institute on Aging, NIH, Baltimore, Maryland: *Mechanistic Studies of the BACH1 (FANCI) Helicase.*

1:25 - 1:30

Questions and Answers

1:30 - 1:40

Sharon B. Cantor, PhD, Department of Cancer Biology, University of Massachusetts Medical School, Worcester, Massachusetts: *The Identification of a Unique, BRCA1 Independent, BACH1/FANCI Complex Essential for DNA Damage Signaling.*

1:40 - 1:45

Questions and Answers

1:45 - 1:55

Lily C. Wang, Integrated Program in Cellular, Molecular, and Biophysical Studies, Institute of Cancer Genetics, Columbia University, New York, New York: *The Activation of the Fanconi Anemia Pathway during DNA Replication.*

1:55 - 2:00

Questions and Answers

2:00 - 2:10

Markus Räschle, PhD, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, Massachusetts: *Activation of the FA Pathway Upon Collision of a Replication Fork with a Site-specific DNA Interstrand Crosslink.*

2:10 - 2:15

Questions and Answers

2:15 - 2:30

Session Forum

2:30 - 2:40

XiaoZhe Wang, PhD, Department of Radiation Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts: *Chk1-mediated Phosphorylation and Degradation of FANCD1 Activates the Fanconi Anemia/BRCA Pathway.*

2:40 - 2:45

Questions and Answers

2:45 - 2:55

Nigel J. Jones, PhD, School of Biological Sciences, University of Liverpool, Liverpool, United Kingdom: *Interactions of Fanconi Anaemia Proteins with the Mismatch Repair Protein MSH2.*

2:55 - 3:00

Questions and Answers

Eighteenth Annual Fanconi Anemia Research Fund Scientific Symposium

- 3:00 - 3:15 **Break**
- 3:15 - 3:25 **Richard D. Kennedy, MD, PhD, Department of Radiation Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts: *MSH2 is Required for DNA Damage Induced Activation of the Fanconi Anemia/BRCA Pathway.***
- 3:25 - 3:30 Questions and Answers
- 3:30 - 3:40 **Henri J. van de Vrugt, PhD, Oregon Stem Cell Center, Oregon Health & Science University, Portland, Oregon: *Fancd2 and Mlh1 Double Mutant Mice Display an Embryonic Lethal Phenotype.***
- 3:40 - 3:45 Questions and Answers
- 3:45 - 4:15 **Session Forum**
- Session V:** ***Model Organisms and Cell-free Systems***
Chair: K.J. Patel, PhD, MRCP
MRC Laboratory of Molecular Biology
Cambridge, United Kingdom
- 4:15 - 4:25 **Kevin Hiom, PhD, MRC Laboratory of Molecular Biology, Cambridge, United Kingdom: *The Role of BRCA1 in the FA Pathway is Defined by the Execution of a Cell Cycle Checkpoint.***
- 4:25 - 4:30 Questions and Answers
- 4:30 - 4:40 **Xiao-Yin Zhang, BA, MRC Laboratory of Molecular Biology, Cambridge, United Kingdom: *A Functionally Conserved FA Pathway in the Social Amoeba Dictyostelium Discoideum.***
- 4:40 - 4:45 Questions and Answers
- 4:45 - 4:55 **Arno Alpi, PhD, MRC Laboratory of Molecular Biology, Cambridge, United Kingdom: *Establishing Cell Free Ubiquitination of FANCD2 by FANCL.***
- 4:55 - 5:00 Questions and Answers
- 5:00 - 5:30 **Session Forum**

Sunday – Morning, October 22, 2006

7:00 - 8:00

Continental Breakfast
Foyer
Poster Viewing
Salon D

Eighteenth Annual Fanconi Anemia Research Fund Scientific Symposium

Session V:

(Continued)

Model Organisms and Cell-free Systems

Chair: K.J. Patel, PhD, MRCP

MRC Laboratory of Molecular Biology

Cambridge, United Kingdom

- 8:00 - 8:10 **Hein te Riele, PhD, The Netherlands Cancer Institute, Amsterdam, The Netherlands: *A Knock-out Mouse for Fanem.***
- 8:10 - 8:15 Questions and Answers
- 8:15 - 8:25 **John H. Postlethwait, PhD, Institute of Neuroscience, University of Oregon, Eugene, Oregon: *Mutations in the Zebrafish Fanconi Anemia Gene Network.***
- 8:25 - 8:30 Questions and Answers
- 8:30 - 8:45 **Session Forum**

Session VI:

Functions of Fanconi Anemia Proteins: Section II

Chair: Gary M. Kupfer, MD

Departments of Microbiology and Pediatrics

University of Virginia

Charlottesville, Virginia

- 8:45 - 8:55 **Larry H. Thompson, PhD, Lawrence Livermore National Laboratory, Livermore, California: *The Fanconi Anemia Chromosome Stability Pathway Limits the Severity of Mutagenesis.***
- 8:55 - 9:00 Questions and Answers
- 9:00 - 9:10 **Kanchan Mirchandani, Graduate Student, Dana-Farber Cancer Institute, Harvard Medical School, Boston, Massachusetts: *A Role for the Fanconi Anemia Pathway in Error-Prone DNA Damage Tolerance.***
- 9:10 - 9:15 Questions and Answers
- 9:15 - 9:25 **Natalie B. Collins, Graduate Student, University of Virginia, Charlottesville, Virginia: *Phosphorylation of FANCA on S1449 is Important for Fanconi Anemia Pathway Function.***
- 9:25 - 9:30 Questions and Answers
- 9:30 - 9:40 **Vibe H. Oestergaard, PhD, MRC Laboratory of Molecular Biology, Cambridge, United Kingdom: *Ablation of the USP1 Gene in DT40 Cells Results in DNA Damage Sensitivity despite Excess Ubiquitinated FANCD2.***
- 9:40 - 9:45 Questions and Answers
- 9:45 - 10:00 **Session Forum**
- 10:00 - 10:15 **Break**

Eighteenth Annual Fanconi Anemia Research Fund Scientific Symposium

- 10:15 - 10:25 **Takayuki Yamashita, MD, PhD, Institute for Molecular and Cellular Regulation, Gunma University, Maebashi, Japan:** *Hsp90 Stabilizes a Cytoplasmic Fraction of FANCA Independently of FANCG.*
- 10:25 - 10:30 Questions and Answers
- 10:30 - 10:40 **Scott M. Vanderwerf, Graduate Student, Biochemistry and Molecular Biology, Oregon Health & Science University, Portland, Oregon:** *Promiscuous Toll-like Receptor 8 Signaling in FA-C Cells.*
- 10:40 - 10:45 Questions and Answers
- 10:45 - 10:55 **Madeleine Carreau, PhD, Hospital St. François D'Assise, Laval University, Québec, Canada:** *Fanconi Anemia Proteins are Transcriptional Modulators of Notch1 Signaling.*
- 10:55 - 11:00 Questions and Answers
- 11:00 - 11:30 **Session Forum**

11:30 - Noon

Forum Conclusion: Planning for the Future

Chair:

Grover C. Bagby, Jr., MD

*Director, Oregon Health & Science University Cancer Institute
Portland, Oregon*

Chair, FA Research Fund Scientific Advisory Board