

Agenda

NNFF International Consortium for the Molecular Biology of NF1 and NF2

June 20-22, 1999

Whitehead Institute for Biomedical Research Massachusetts Institute of Technology

Chairmen

Tyler E. Jacks, PhD

Massachusetts Institute of Technology
Center for Cancer Research

André Bernards, PhD

Massachusetts General Hospital
Cancer Center

* * *

Sponsors

*The National Neurofibromatosis Foundation and the organizers
gratefully acknowledge support from:*

National Institute of Neurological Disorders and Stroke

March of Dimes Birth Defects Foundation (Grant No. 4-FY99-727)

Merck Research Laboratories

The Members and Contributors of the National Neurofibromatosis Foundation, Inc.

Program

Sunday, June 20, 1999

Registration and Reception (4:00pm - 7:30pm)

Introductory Remarks (7:30pm - 8:00pm)

Gerry Fink, Whitehead Institute
Peter Bellermand, National Neurofibromatosis Foundation Inc.

Tyler Jacks, MIT Center for Cancer Research
André Bernards, MGH Cancer Center
Gerald Fischbach, National Institute for Neurological Disorders and Stroke

Keynote Speakers

Channing Der, University of North Carolina (8:00pm - 8:45pm)
Ras-mediated signaling in disease and development

Break (8:45pm - 9:00pm)

Alan Hall, University College of London (9:00pm - 9:45pm)
Cell signaling and the cytoskeleton

Monday June 21, 1999

NF1 morning session

André Bernards, MGH Cancer Center (Chair) (8:30am - 8:40am)

Jeffrey DeClue, NCI (8:40am - 9:05am)
EGF receptor expression in NF1 tumors and Schwann cell transformation

Nancy Ratner, University of Cincinnati (9:05am - 9:30am)
NF1 +/- mice are defective in wound healing

Iswar Hariharan, MGH Cancer Center (9:30am - 9:55am)
Biological studies of Drosophila NF1

Yi Zhong, Cold Spring Harbor Laboratory (9:55am - 10:20am)

Break (10:20am - 10:45am)

Kristine Vogel, Louisiana State University (10:45am - 11:10am)
Growth factor modulation of neural crest phenotype in Neurofibromin-deficient cells

George de Vries, Loyola University (11:10am - 11:35am)
Altered growth factor receptors in NF1-derived Schwann cells

Tyler Jacks, MIT (11:35am - 12:00noon)
Regulation of and by neurofibromin

Discussants:

Frank Balis, NCI

Robert Baughman, NINDS

Jay Gibbs, Merck & Co.

Bruce Korf, Harvard Medical School

Peter Phillips, Children's Hospital of Philadelphia

Karen Stephens, University of Washington

Lunch (12:00noon - 2:00pm)

Monday June 21, 1999

NF1 afternoon session

Luis Parada, U.T. Southwestern Medical Center (Chair) (2:00pm - 2:35pm)
NF1 conditional knockout: a progress report

David Largaespada, University of Minnesota (2:35pm - 3:00pm)
GAPs and GEFs in myeloid leukemia development

Kevin Shannon, UCSF (3:00pm - 3:25pm)
In vivo relevance of growth factor hypersensitivity in NF1-deficient hematopoietic cells

Camillynn Brannan, University of Florida (3:25pm - 3:50pm)
Identification of a candidate cooperating oncogene in progression of NF1-associated myeloid leukemia

Break (3:50pm - 4:20pm)

Wade Clapp, Indiana University (4:20pm - 4:55pm)
Haploinsufficiency of NF1 modulates C-kit signaling in melanocytes and mast cells in vivo

Jon Epstein, University of Pennsylvania (4:55pm - 5:20pm)
NF1, neural crest and cardiac development

Mladen Golubic, Cleveland Clinic Foundation (5:20pm - 5:45pm)
Neurofibromin-lipids and mitochondria connection

Discussants:

Rosemary Foster, Massachusetts General Hospital
Susan Huson, Oxford Radcliffe Hospital, London
Allan Rubenstein, Mt. Sinai School of Medicine
Margaret Wallace, University of Florida

Conference Dinner (7:30pm -)

Tuesday June 22, 1999

NF2 morning session

James Gusella, Harvard Medical School/MGH (Chair) (8:30am - 8:40am)

David Gutmann, Washington University (8:40am - 9:05am)
Merlin as a molecular integrator

Mitsuyoshi Nakao, Kumamoto University (9:05am - 9:20am)
The involvement of calpain-dependent proteolysis of the tumor suppressor NF2 (merlin) in schwannomas and meningiomas

Vijaya Ramesh, Massachusetts General Hospital (9:20am - 9:55am)
Inter-and intra molecular interactions of Merlin isoforms

Lynn Rutkowski, University of Pennsylvania (9:55am -10:20am)
The NF1 message from tumor cells

Break (10:20am -10:45am)

Elizabeth Luna, University of Massachusetts. (10:45am -11:10am)
Actin-membrane linking proteins in transformed cells

Heinz Furthmayr, Stanford University (11:10am -11:35am)
Requirements for high affinity binding of cellular moesin to actin filaments

Anthony Bretscher, Cornell University (11:35am -12:00noon)
Structure of the moesin N/C-ERMAD: Implications for merlin

Discussants:

Jeffrey Field, University of Pennsylvania
Mia MacCollin, Massachusetts General Hospital

Lunch (12:00noon-2:00pm)

Tuesday June 22, 1999

NF2 afternoon session

Gilles Thomas, Pasteur Institute (Chair) (2:00pm - 2:10pm)

Marco Giovannini, Pasteur Institute (2:10pm - 2:35pm)
Mouse models for NF2

Andrea McClatchey, MGH Cancer Center (2:35pm - 3:00pm)
Role of the NF2 tumor suppressor, merlin in tumorigenesis and metastasis

Markku Sainio, University of Helsinki (3:00pm - 3:25pm)
The COOH-terminal domain regulates functional activity of Merlin

Guy Rouleau, McGill University (3:25pm - 4:45pm)
Searching for proteins that interact with the NF2 gene product

Break (4:45pm - 5:10pm)

Stefan Pulst, UCLA (5:10pm - 5:35pm)
Effect of NF2 missense mutations on schwannomin interactions with itself and other proteins

Richard Fehon, Duke University (5:35pm - 6:00pm)
Genetic analysis of Drosophila Merlin and human NF1 function

Discussants:

William Slattery, House Ear Institute