

NNFF International Consortium for the Molecular Biology of NF1 and NF2

AGENDA



June 9-12, 2002

**Hotel Jerome
330 East Main Street
Aspen, Colorado**

Chairpersons

Dr. Margaret (Peggy) Wallace
University of Florida, Gainesville

Dr. Rick Fehon
Duke University

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

The National Institute of Neurological Disorders and Stroke

The National Cancer Institute

The National Institute on Deafness and Other Communication Disorders

The National Heart, Lung and blood Insitute

The National Institutes of Health

The March of Dimes

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

Program

NNFF Consortium for the Molecular Biology of NF1 and NF2

Aspen June 9-12, 2002

4:00 PM – 6:00 PM Registration and Reception Antler Bar

Topic: Therapeutic Strategies and Clinical Results

Chairs: Dr. Mia MacCollin, Harvard Medical School/MGH and Dr. Jan Friedman, University of British Columbia

Session 1: Sunday June 9, 2002 - 7:15 PM -10:00 PM

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|---------------|---|---|
| 7:15-7:20 PM | Welcome | Peter Bellermann, NNFF |
| 7:20-7:30 PM | Opening Remarks: Chair | Dr. Rick Fehon, Duke University |
| 7:30-7:50 PM | NF1 Natural History and Clinical Issues | Dr. Jan Friedman, University of British Columbia, Canada |
| 7:50-8:10 PM | NF2 Natural History and Clinical Issues | Dr. Mia MacCollin, Harvard Medical School/MGH |
| 8:10-8:25 PM | Measurement of the Growth Tendency of Dermal Neurofibromas Using a Device for <i>in vivo</i> Optical Skin Measurement | Dr. Bernd Algermissen, Klinikum Neukoelln, Berlin, Germany |
| 8:25-8:40 PM | Multiple Meningiomas: Investigating the Molecular Basis of Sporadic and Familial Forms | Dr. Bianca Heinrich, Harvard Medical School/MGH |
| 8:40-9:00 PM | Break | |
| 9:00-9:15 PM | NF1 Natural History Study Update | Dr. Bruce Korf, Harvard Medical School/ Partners Center for Human Genetics |
| 9:15-9:30 PM | NF2 Natural History Study Update | Dr. William Slattery, House Ear Institute |
| 9:30-9:45 PM | Molecular and Cellular Mechanisms Underlying the Learning Disabilities Associated with Neurofibromatosis Type I | Dr. Alcino Silva, University of California, Los Angeles |
| 9:45-10:00 PM | Discussion | |

Topic: Model Systems

**Chairs: Rick Fehon, Duke University and Marco Giovannini,
Foundation Jean Dausset, Paris France**

Session 2: Monday morning, June 10, 2002 - 8:20 AM-12:00 PM

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|----------------|---|---|
| 7:30-8:20 AM | Breakfast | Antler Bar |
| 8:20-8:25 AM | Opening Remarks, Chair | Dr. Rick Fehon, Duke University |
| 8:25-8:35 AM | U.S. Army Grant Information | Dr. Rick Kenyon, U.S. Army Medical Research |
| 8:35-8:50 AM | Mouse Models Consortium Report | Dr. Kevin Shannon, University of California, San Francisco |
| 8:50-9:10 AM | Mouse Models for NF2 | Dr. Marco Giovannini, Fondation Jean Dausset Paris, France |
| 9:10-9:25 AM | Meningioma Development in the Mouse Promoted by Somatic NF2 Gene Inactivation in Arachnoidal Cells | Dr. Michel Kalamarides, Fondation Jean Dausset Paris, France |
| 9:25-9:40 AM | The Type 1 Neurofibromatosis (NF1) Gene Product Has an Essential Role in Endothelial Cells | Dr. Aaron Gitler, University of Pennsylvania |
| 9:40-9:55 AM | Drosophila ERM protein Moesin Functions Antagonistically to Rho to Maintain Eepithelial Cell Morphology | Dr. Olga Nikiforova, Duke University |
| 9:55-10:15 AM | Break | |
| 10:15-10:35 AM | NF1 and NF2 Tumor Modeling | Dr. Tyler Jacks, M.I.T. Center for Cancer Research |
| 10:35-10:55 AM | Analysis of NF1 Function in Drosophila | Dr. Andre Bernards, Harvard Medical School/MGH |
| 10:55-11:10 AM | Adenovirus Mediated inhibition of Tumorigenesis in a Neurofibromatosis Type1 Mouse Model | Dr. Laura Klesse, University of Texas/ Southwestern Medical Center |

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| 11:10-11:25 AM | Radiation and Alkylating Agents Cooperate with Heterozygous Inactivation of NF1 in Sarcomagenesis | Dr. Richard Chao, University of California, Los Angeles |
| 11:25-11:45 AM | Mouse NF1 Conditional Mutants | Dr. Luis Parada, University of Texas/ Southwestern Medical Center |
| 11:45-12:00 PM | Discussion | |
| <i>First Poster Session 4:00 PM – 6:00 PM</i> | | |

Topic: Molecular and Cellular Biology 1

Chairs: Dr. Peggy Wallace, University of Florida and Dr. Wade Clapp, Indiana University

Session 3: Monday evening. June 10, 2002 - 7:30 PM-10:00 PM

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| 7:30-7:40 PM | Opening Remarks, Chair | Dr. Peggy Wallace, University of Florida, Gainesville |
| 7:40-8:10 PM | Keynote: Proteomic Analysis of Signal Transduction Pathways | Dr. Natalie Ahn, University of Colorado, Boulder |
| 8:10-8:25 PM | Genetic Analysis of Plexiform Tumor Cultures by cDNA Expression Arrays | Dr. Susanne Thomson University of Florida, Gainesville |
| 8:25-8:40 PM | Molecular Alterations in Merlin-Deficient Lipid Rafts | Dr. Marcello Curto, Harvard Medical School/MGH |
| 8:40-8:55 PM | The Tumor Suppressor Protein, Merlin, is Localized to Lipid Rafts | Dr. John Stickney University of Cincinnati |
| 8:55-9:15 PM | Break | |
| 9:15-9:30 PM | PTPN11 Mutations in LEOPARD Syndrome | Dr. Eric Legius University of Leuven, Belgium |
| 9:30-9:45 PM | Somatic Mitochondria DNA Mutations are Found in Neurofibromatosis Type 1 | Dr. Andreas Kurtz Harvard Medical School/MGH |
| 9:45-10:00 PM | Discussion | |

10:00 PM

Single Malt Scotch Session

Masters of Ceremony
Dr. Luis Parada &
Dr. Rick Fehon

Topic: Molecular and Cell Biology 2

***Chairs: Andrea McClatchey, Harvard Medical School/MGH and
Dr. Monique Arpin, Institut Curie***

Session 4: Tuesday morning, June 11, 2002 – 8:30 am to 11:45 am

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| 7:30-8:30 AM | Breakfast | Antler Bar |
| 8:30-8:35 AM | Opening Remarks, Chair | Dr. Andrea McClatchey Harvard Medical School/ MGH |
| 8:35-8:45 AM | Funding opportunities at NINDS | Dr. Bob Finkelstein, National Institutes of Health |
| 8:45-9:15 AM | Keynote: Cytoskeletal Connections of Adhesion Receptors | Dr. Richard Hynes, M.I.T. Center for Cancer Research |
| 9:15-9:35 AM | Merlin for Muggles | Dr. Andrea McClatchey, Harvard Medical School/ MGH |
| 9:35-9:50 AM | Merlin Phosphorylation by p21-Activated Kinase 2 and Effects of Phosphorylation on Merlin Localization | Dr. Joseph Kissil M.I.T. Center for Cancer Research |
| 9:50-10:05 AM | Dynamic Regulation Of The Ras Pathway Via Neurofibromin Proteolysis | Dr. Karen Cichowski, Harvard Medical School/ Brigham & Women's Hospital |
| 10:05-10:30 AM | Break | |
| 10:30-10:50 AM | Regulation of ERM Protein/ Merlin Functions by Conformational Changes | Dr. Monique Arpin, Institut Curie, France |
| 10:50-11:05 AM | Cellular Growth and Invasion Controlled by Merlin, Ezrin and CD44 | Dr. Peter Herrlich Karlsruhe Research Center, Germany |
| 11:05-11:20 AM | Neurofibromin and Ras Regulate Adenylyl Cyclase in Drosophila | Dr. Frances Hannan Cold Spring Harbor Laboratory |

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| 11:20-11:40 AM | The Role of NF1/Ras/MAPK In The Control of Rest: Activity Rhythms In Drosophila | Dr. Amita Sehgal University of Pennsylvania |
| 11:40-11:55 AM | Discussion | |

Poster Session 2: 4:00 PM – 6:00 PM
Dinner- Garden Terrace 5:30PM – 7:30 PM

Topic: Tumorigenesis

**Chairs: Dr. David Gutmann, Washington University, St. Louis and
Dr. Kristine Vogel, University of Texas, San Antonio**

Session 5: Tuesday Evening, June 11, 2002 - 7:30 PM-10:00 PM

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| 7:30-7:35 PM | Opening Remarks, Chair | Dr. David Gutmann Washington University, St. Louis |
| 7:35-7:55 PM | Keynote: Cancer Therapy Based on Ras and p53 | Dr. Frank McCormick, University of California, San Francisco |
| 7:55-8:15 PM | Applying Lessons Learned From Human NF1-Associated Astrocytomas to Mouse NF1 Brain Tumor Modeling | Dr. David Gutmann, Washington University, St. Louis |
| 8:15-8:30 PM | NF1 Inactivation Sensitizes Myeloid Cells To Survive in Low Cytokine Concentrations by Modulating the PI3K/Protein Kinase B Pathway | Dr. Wendy See, University of California, San Francisco |
| 8:30-8:45 PM | Blockade of GM-CSF Signaling or Reintroduction of Neurofibromin's Gap-Related Domain to Attenuate NF1 Associated Myeloid Cell Phenotypes | Dr. Kelly Morgan, University of Minnesota |
| 8:45-9:05 PM | Break | |
| 9:05-9:25 PM | Invasiveness of Neurofibromin-Deficient Neural Crest Cells and Sarcoma Cell Lines | Dr. Kristine Vogel, University of Texas, San Antonio |
| 9:25-9:40 PM | Haploinsufficiency of the NF1 Tumor Suppressor Gene Enhances the Migration of Mast Cells Via Increased Adhesion to VLA-4 and Hyperactivation of the Ras-PI-3K-Rac2 Pathway | Dr. David Ingram Indiana University |
| 9:40-10:00 PM | Discussion | |

Topic: Neural Crest Cells

***Chairs: Nancy Ratner, University of Cincinnati and
Cristina Fernandez-Valle, University Central of Florida***

Session 6: Wednesday, June 12, 2002 – 8:30 am to 11:30 am

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| 7:30-8:30 AM | Breakfast | Antler Bar |
| 8:30-8:35 AM | Opening Remarks, Chair | Dr. Nancy Ratner, University of Cincinnati |
| 8:35-9:05 AM | Keynote: Molecular Interactions in the Nodal and Paranodal Regions of myelinated nerves | Dr. James Salzer, New York University |
| 9:05-9:25 AM | Mouse Models of Neurofibroma Formation | Dr. Nancy Ratner, University of Cincinnati |
| 9:25-9:40 AM | Transcriptional and Posttranscriptional Regulation of the Human NF2 Gene | Dr. Long-Sheng Chang, Ohio State University |
| 9:40-9:55 AM | Overexpression of the NF2 Gene Inhibits Schwannoma Cell Proliferation by Promoting PDGF Receptor Degradation | Dr. Juergen-Theodor Fraenzer, House Ear Institute |
| 9:55-10:15 AM | Break | |
| 10:15-10:35 AM | Direct Binding of Schwannomin and Paxillin: Role in Membrane Localization and Proliferation in Primary Schwann Cells | Dr. Cristina Fernandez- Valle, University of Central Florida, Orlando |
| 10:35-10:50 AM | Identification and Characterization of a Novel Merlin-Specific Interactor | Dr. Thorsten Wiederhold Harvard Medical School/MGH |
| 10:50-11:05 AM | EBP50 Links CD44, erbB2 and Merlin in Primary Schwann Cells | Dr. Reshma Rangwala University of Cincinnati |
| 11:05-11:20 AM | Discussion | |

Adjunct Meetings and Sessions:

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| Poster Session #1: | Monday, June 10, 2002 - 4:00 PM - 6:00 PM |
| Medical Policy Committee: | Monday, June 10, 2002 - 5:00 PM -8:00 PM |
| Poster Session #2: | Tuesday, June 11, 2002 - 4:00 PM - 6:00 PM |