CAG Triplet Repeat Disorders

Agenda

CAG Triplet Repeat Disorders
May 31 - June 5, 2009
Waterville Valley Resort
Waterville Valley, NH
Chair:
Jang-Ho Cha

Vice Chair:
Laura Ranum

2:00 pm - 9:00 pm  Arrival and Check-in (Office Closed 6:00 pm - 7:00 pm)
6:00 PM  Dinner
7:30 pm - 7:40 pm  Welcome / Introductory Comments by GRC Site Staff
7:40 pm - 9:30 pm  KEYNOTE ADDRESS
Session Chair: Jang-Ho Cha (Massachusetts General Hospital)
7:40 pm - 8:40 pm  Harry Orr (University of Minnesota)
"Biochemical and physiological deficits in a polyglutamine disease"
8:40 pm - 9:15 pm  Discussion

MONDAY
7:30 am - 8:30 am  Breakfast
9:00 am - 12:30 pm  CLINICAL PRESENTATION SETTING THE STAGE FOR PRECLINICAL OPPORTUNITIES (HD and SCAs)
Session Chair: Anne Young (Massachusetts General Hospital)
9:00 am - 9:30 am  Marian DiFiglia (Massachusetts General Hospital)
"Molecular Pathology"
9:30 am - 9:45 am  Discussion
9:45 AM  Coffee Break / Group Photo
10:30 am - 11:00 am  Stefano DiDonato (Istituto Nazionale Neurologico 'C. Besta')
"Clinical Aspects and Peripheral Markers of Neurodegeneration"
11:00 am - 11:15 am  Discussion
11:15 am - 11:45 am  Jane Paulsen (University of Iowa)
"Biological and Clinical Markers of HD before Diagnosis: The PREDICT-HD Study"
11:45 am - 12:00 pm  Discussion
12:00 pm - 12:30 pm  Structured Discussion: Blair Leavitt (University of British Columbia)
12:30 PM  Lunch
1:30 pm - 4:00 pm  Free Time
4:00 pm - 6:00 pm  Poster Session I
6:00 PM  Dinner
7:30 pm - 9:30 pm  INFLAMMATION IN CAG TRIPLET REPEAT DISORDERS
Session Chair: Yijuang Chern (Institute of Biomedical Sciences, Taiwan)
7:30 pm - 8:00 pm  Maria Bjorkqvist (Lund University)
"Peripheral markers of inflammation in HD"
8:00 pm - 8:15 pm  Discussion
8:15 pm - 8:45 pm  Thomas Moeller (University Washington)
"Role of Microglia in Huntington's disease"
8:45 pm - 9:00 pm  Discussion
9:00 pm - 9:30 pm  Structured Discussion: Paul Muchowski (University of California, San Francisco)
TUESDAY
7:30 am - 8:30 am  Breakfast
9:00 am - 12:30 pm  TRANSCRIPTION: MECHANISMS AND THERAPY
Session Chair: Leslie Thompson (University of California, Irvine)
9:00 am - 9:30 am  Ruth Luthi-Carter (Ecole Polytechnique Federale de Lausanne)
"Mechanisms of transcriptional dysregulation as revealed by gene expression profiling"
9:30 am - 9:45 am  Discussion
9:45 am - 10:00 am  Puneet Opal (Northwestern University)
"Role of transcriptional corepressors in SCA1 pathogenesis"
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10:00 AM  Coffee Break

10:30 am - 11:00 am  Gillian Bates (Kings College)
"HDAC inhibition in mouse models of HD"

11:00 am - 11:15 am  Discussion

11:15 am - 11:45 am  Joel Gottesfeld (Scripps Institute)
"Novel HDAC Inhibitors"

11:45 am - 12:00 pm  Discussion

12:00 pm - 12:30 pm  Structured Discussion: Joan Steffan (University of California, Irvine)

12:30 PM  Lunch

1:30 pm - 4:00 pm  Free Time

4:00 pm - 6:00 pm  Poster Session II

6:00 PM  Dinner

7:30 pm - 9:30 pm  GENETIC MODIFIERS
Session Chair: Diane Merry (Thomas Jefferson University)

7:30 pm - 8:00 pm  Darren Monckton (University of Glasgow)
"Genetic modifiers of disease severity in myotonic dystrophy"

8:00 pm - 8:15 pm  Discussion

8:15 pm - 8:45 pm  Juan Botas (Baylor University School of Medicine)
"Genetic Modifiers in Drosophila"

8:45 pm - 9:00 pm  Discussion

9:00 pm - 9:30 pm  Structured Discussion: James Gusella (Massachusetts General Hospital)

WEDNESDAY

7:30 am - 8:30 am  Breakfast

9:00 am - 12:30 pm  RNA GAIN OF FUNCTION AND BIDIRECTIONAL EXPRESSION
Session Chair: J. Paul Taylor (St Jude Children’s Hospital)

9:00 am - 9:30 am  Tom Cooper (Baylor University School of Medicine)
"CUG effects on RNA splicing"

9:30 am - 9:45 am  Discussion

9:45 am - 10:00 am  Peng Jin (Emory University)
"Identification of small molecules suppressing rCGG-repeat-mediated neurodegeneration"

10:00 AM  Coffee Break

10:30 am - 11:00 am  Al La Spada (University of Washington)
"Bidirectional expression in SCA7: role of CTCF repeats"

11:00 am - 11:15 am  Discussion

11:15 am - 11:45 am  Galina Filippova (Fred Hutchison Cancer Research Center)
"Bidirectional expression of DM1 and FMR1"

11:45 am - 12:00 pm  Discussion

12:00 pm - 12:30 pm  Structured Discussion: Maury Swanson (University of Florida)

12:30 PM  Lunch

1:30 pm - 4:00 pm  Free Time

4:00 pm - 6:00 pm  Poster Session III

6:00 PM  Dinner

7:30 pm - 9:30 pm  REPEAT INSTABILITY
Session Chair: Jenny Morton (Cambridge University)

7:30 pm - 8:00 pm  Vanessa Wheeler (Massachusetts General Hospital)
"A genetics approach to understanding trinucleotide repeat instability in Huntington's disease"

8:00 pm - 8:15 pm  Discussion

8:15 pm - 8:45 pm  Christopher Pearson (Sick Kids Hospital)
"Tissue-specific determinants of trinucleotide repeat instability"

8:45 pm - 9:00 pm  Discussion

9:00 pm - 9:30 pm  Structured Discussion: Anne Messer (Wadsworth Institute)

THURSDAY

7:30 am - 8:30 am  Breakfast

9:00 am - 10:00 am  DATA BLITZ
Session Chair: Laura Ranum (University of Minnesota)

9:00 am - 9:10 am  Heather Montie (GRS Attendee, Thomas Jefferson University)
"Cytoplasmic Retention of Polyglutamine-Expanded Androgen Receptor Ameliorates Disease via Autophagy in a Mouse Model of Spinal and Bulbar Muscular Atrophy"
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9:10 am - 9:15 am Discussion
9:15 am - 9:25 am Lise Munsie (GRS Attendee, McMaster University)
"The Huntington's Disease Protein has a Nuclear Function in Cell Stress Response"
9:25 am - 9:30 am Discussion
9:30 am - 9:40 am Janghoo Lim (GRS Attendee, Baylor College of Medicine)
"Role of RNA regulation in SCA1 pathogenesis"
9:40 am - 9:45 am Discussion
9:45 am - 9:55 am Scott Zeitlin (University of Virginia)
"Expression of a version of huntingtin lacking its short stretch of polyglutamine (deltaQ htt) enhances neuronal autophagy and longevity in mice, and stimulates the formation of autophagosomes in vitro"
9:55 am - 10:00 am Discussion
10:00 AM Coffee Break
10:30 am - 12:30 pm NEUROIMAGING STUDIES
Discussion Leader: Yvette Bordelon (University of California, Los Angeles)
10:30 am - 11:00 am Gülö Öz (University of Minnesota)
"Magnetic Resonance Spectroscopy imaging studies of ataxia patients and mice"
11:00 am - 11:15 am Discussion
11:15 am - 11:45 am Wenzhen Duan (Johns Hopkins Univ)
"MRI as a biomarker in preclinical studies"
11:45 am - 12:00 pm Discussion
12:00 pm - 12:30 pm Structured Discussion: Yvette Bordelon (University of California, Los Angeles)
12:30 PM Lunch
1:30 pm - 4:00 pm Free Time
4:00 pm - 6:00 pm Poster Session IV
6:00 PM Dinner
7:00 pm - 7:30 pm Business Meeting
(Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)
7:30 pm - 9:30 pm CIRCUITRY MALFUNCTION AND SYNAPTIC PATHOLOGY
Session Chair: Lynn Raymond (Univ British Columbia)
7:30 pm - 8:00 pm Xiao-Jiang Li (Emory University)
"Synaptic pathology in CAG Triplet Repeat Disorders"
8:00 pm - 8:15 pm Discussion
8:15 pm - 8:45 pm George Rebec (Indiana University)
"A systems-level analysis of HD mouse models: dysregulation of ascorbate release, glutamate uptake, and corticostriatal neuronal communication"
8:45 pm - 9:00 pm Discussion
9:00 pm - 9:30 pm Structured Discussion: Kerry Murphy (Open University)
FRIDAY
7:30 am - 8:30 am Breakfast
9:00 AM Depart