MONDAY JULY 9

INTRODUCTION

"Welcome to the First Annual Dysferlin Conference" Ajit Jain & Plavi Mittal, Jain Foundation Inc.	9:00 – 9:10 AM
SESSION I: STEM CELL THERAPY	
Introduction	9:10 – 9:20 AM
Keynote Speaker "Towards cell therapy for muscular dystrophies" Giulio Cossu, Stem Cell Research Institute, Milan	9:20 – 9:40 AM
"Adult Stem Cells derived from perivascular tissues of the skeletal muscle" Morayma Reyes, University of Washington	9:40 - 10:00 AM
"Myogenic potential of CD133+ cells" Yvan Torrente, University of Milan	10:00 – 10:20 AM
"Local and systemic factors regulating muscle stem cell function" Amy J. Wagers, Joslin Diabetes Center and Harvard Stem Cell Institute	10:20 – 10:40 AM
BRAINSTORMING: SESSION I Moderator: Terence Partridge	10:40 – 11:30 AM

LUNCH 11:30 AM - 12:30 PM

CONFERENCE PROGRAM

SESSION II: DYSFERLIN GENE THERAPY

Introduction	12:30 – 12:40 PM
Keynote Speaker "Adeno-associated virus vectors for targeted and repeat delivery" R. Jude Samulski, University of North Carolina	12:40 – 1:00 PM
"A strategy based on splicing between concatemerized AAV vectors for reversal of dysferlin deficiency by gene transfer" Isabelle Richard, Généthon, France	1:00 – 1:20 PM
"The ΦC31 integrase system for gene therapy of LGMD2B/MM" Michele P. Calos, Stanford University School of Medicine	1:20 – 1:40 PM
"The potential of plasmid electrotransfer" Daniel Scherman, Généthon, France	1:40 – 2:00 PM
BRAINSTORMING: SESSION II Moderator: Robert Brown	2:00 – 2:50 PM
SESSION III: MUTATION ANALYSIS AND DIAGNOSIS	
Introduction	2:50 – 3:00 PM
Keynote Speaker "Clinical and molecular defects in dysferlinopathies: from patients to therapies" Nicolas Lévy, Inserm, CHU Timone, Marseille	3:00 – 3:20 PM
"Dysferlin expression in monocytes and skeletal muscle in different pathological conditions in vivo and in vitro" Eduard Gallardo, Hospital de la Santa Creu i Sant Pau, Barcelona	3:20 – 3:40 PM
"Muscle biopsy evaluation in the diagnosis of dysferlinopathies" Steven A. Moore, University of Iowa	3:40 – 4:00 PM
BRAINSTORMING: SESSION III Moderator: Sandra Cooper	4:00 – 4:30 PM

DINNER 6:30 – 9:30 PM

8:30 - 8:50 AM

TUESDAY JULY 10

INTRODUCTION

"Background: Other ferlins, other organisms, other tissues" Bradley Williams, Jain Foundation Inc.

SESSION IV: DYSFERLIN FUNCTION	
Keynote Speaker "Overview and recent functional analysis of dysferlin" Robert H. Brown, Jr., Massachusetts General Hospital, Harvard Medical School	9:00 – 9:20 AM
"LGMD2B (Dysferlin-deficiency) shows compensatory upregulation of vesicle trafficking pathway Rab27A and its effector Synaptotagmin like protein 2" Eric P. Hoffman, Children's National Medical Center, Washington DC	9:20 – 9:40 AM
"Folding, 'shape-shifting' and membrane targeting of dysferlin and dysferlin mutants" Sandra Cooper, Children's Hospital at Westmead, Australia	9:40 - 10:00 AM
"Dysferlin from T-tubules to sarcolemma" Rita Barresi, University of Newcastle upon Tyne, UK	10:00 – 10:20 AM
"Identification of proteins related to dysferlin and those functioning in the dysferlin membrane repair pathway" Rumaisa Bashir, University of Durham, UK	10:20 – 10:40 AM
BRAINSTORMING: SESSION IV Moderator: Kevin Campbell	10:40 – 11:30 AM

LUNCH 11:30 AM – 12:30 PM

• • • • • • • CONFERENCE PROGRAM

SESSION V: MEMBRANE FUSION AND REPAIR

Introduction	12:30 – 12:40 PM
Keynote Speaker "Defective membrane repair in dysferlin-deficient skeletal and cardiac muscle" Kevin P. Campbell, University of Iowa	12:40 – 1:00 PM
"Mechanisms and assays of membrane repair" Paul L. McNeil, Medical College of Georgia	1:00 – 1:20 PM
"Membrane biophysics of phospholipid bilayer pore formation and membrane fusion" Joshua Zimmerberg, Marine Biological Laboratory, Massachusetts	1:20 – 1:40 PM
"Sea Urchins: A model system for studying exocytosis, endocytosis, membrane repair and DYSFERLIN?" Steven S. Vogel, NIAAA, National Institutes of Health	1:40 – 2:00 PM
"FER-1 function in C. elegans" Samuel Ward, University of Arizona	2:00 – 2:20 PM
"Genetic and cell biological analyses of secretory vesicle biogenesis during C. elegans spermatogenesis" Steven L'Hernault, Emory University	2:20 – 2:40 PM
BRAINSTORMING: SESSION V Moderator: Elizabeth McNally	2:40 – 3:30 PM
POSTER SESSION I All conference participants	3:30 – 4:30 PM

DINNER 6:30 – 9:00 PM

7

WEDNESDAY JULY 11

SESSION VI: OTHER THERAPEUTIC STRATEGIES

Introduction	8:30 – 8:40 AM
Keynote Speaker "Therapeutic strategies with possible applicability to Dysferlin deficiency" H. Lee Sweeney, University of Pennsylvania	8:40 – 9:00 AM
"Myostatin inhibitors and muscle regeneration" Kathryn R. Wagner, Johns Hopkins School of Medicine	9:00 - 9:20 AM
"Myoferlin in myoblast fusion" Elizabeth McNally, University of Chicago	9:20 - 9:40 AM
"Assessing the prospects of therapeutic exon skipping in dysferlinopathies" Terence A. Partridge, Children's National Medical Center, Washington DC	9:40 - 10:00 AM
BRAINSTORMING: SESSION VI Moderator: Eric Hoffman	10:00 - 11:00 AM

POSTER SESSION II
All conference participants

11:00 AM - 12:00 PM

LUNCH 12:00 – 1:00 PM

FREE TIME 1:00 – 6:00 PM

DINNER 6:00 – 7:30 PM

EVENING BRAINSTORMING SESSION

Topic 1: Lessons From Other Genetic Diseases Moderator: Jeffrey Sklar, Yale University School of Medicine	8:00 – 8:30 PM
Topic 2: Drug Discovery Process Moderator: Donald Kirsch, Cambria Biosciences, Massachusetts	8:30 – 9:00 PM
Topic 3: Clinical Trials: Patient Recruitment and FDA Guidelines Moderators: Plavi Mittal & Esther Hwang, Jain Foundation Inc.	9:00 - 10:00 PM

THURSDAY JULY 12

SESSION VII: IMMUNE INVOLVEMENT AND CELL DEATH

8:30 – 8:40 AM
8:40 – 9:00 AM
9:00 – 9:20 AM
9:20 - 9:40 AM
9:40 - 10:00 AM
10:00 – 10:50 AM

CONCLUSION

"Continuing efforts towards a cure" 10:50 – 11:00 AM Ajit Jain & Plavi Mittal, Jain Foundation Inc.

LUNCH 11:30 AM - 12:30 PM