9 AM  Welcome
from the Directors Melissa Spencer, Carrie Miceli and Stan Nelson

Presentations by External advisory committee members

9:10-9:40  Grace Pavlath, Ph.D. Professor of Pharmacology at Emory University: “Potential Mechanisms of Muscle Pathology in Oculopharyngeal Muscular Dystrophy”

9:50- 10:20 Glenn Walter, Ph.D. Professor of Physiology at The University of Florida: “Looking Inside Dystrophic Muscle”.

Core Director Presentations

10:30-10:40  Core B Highthroughput Screening Core, PI Carrie Miceli
10:40-10:50  Core C Mouse Phenotyping and Imaging Core, PI Melissa Spencer
10:50-11:00  Core D: Bioinformatics Core, PI Stanley Nelson

11:00-11:15  Coffee Break

11:15-12:00 Trainee Presentations

11:00-11:15- Genevieve Kendall,(collaboration between Miceli and Nelson Labs)
“High Throughput Screening Assays for the Identification of Small Molecules that Modulate Exon Skipping on the DMD Gene”

11:20-11:35- Ekaterina Mohkonova (collaboration between Miceli, Nelson and Spencer Labs)
“In Vivo Testing of Small Molecules That Modulate Exon Skipping on the DMD Gene”

11:40-11:55- Lily Chao (Totonoz Lab)
“The role of Nur77 in muscle metabolism and regeneration”

12:00-1:00  lunch and poster session

Faculty Presentations

1:00-1:20  April Pyle
“Development of Human Induced Pluripotent Stem Cells and Skeletal Muscle Derivatives as a Screening and Therapeutic Assessment Tool for Duchenne Muscular Dystrophy”

1:25-1:45  Julio Vergara
"Characterization of the chloride conductance in mammalian skeletal muscle fibers”
1:50-2:10 Eileen Fowler
“Clinical outcome measurements in Duchenne muscular dystrophy”

2:15-2:35-coffee break

2:40-3:00 Robb MacClellen
“Epigenetics of muscle growth: Implications for Regeneration”

3:05-3:25 Linda Baum
“Novel approaches to regulating muscle cell glycosylation and function”

3:30-3:50 Johan Holmberg (collaboration between Rachelle Crosbie and Linda Baum labs)
“Small molecule high throughput screens for muscular dystrophy: In vivo evaluation of lead compounds”

4:00-4:20 wine, beer and light snacks

4:30-4:50 Thomas Vondriska
“How the Proteome Impacts the Genome, Causing the Heart to Fail”

4:55-5:15 Yibin Wang
“Novel Protein Phosphatases in Stress-Signal Regulation in Heart Muscle”

5:20-5:40 Erik Anderson (Doug Black lab)
“Modulation of SMN2 alternative pre-mRNA splicing by small molecule compounds”

5:40-6:00 Ron Victor
“NO control of blood flow in normal and DMD skeletal muscle”

THANK YOU FOR ATTENDING THE CDMD RETREAT. DRIVE SAFELY!