

PROGRAM: SOCIETY FOR INHERITED METABOLIC DISORDERS

Annual Meeting: March 28 - 31, 2015

Grand America Hotel, Salt Lake City, Utah

Friday, March 27, 2015	
4:00 PM – 7:00 PM	Meeting Registration – Grand Ballroom Registration Desk
Saturday, March 28, 2015	
8:30 AM - 6:00 PM	Meeting Registration – Grand Ballroom Registration Desk
1:00 PM– 5:00 PM	Poster board and vendor set up – Imperial Ballroom
Scientific Session 1 10:30 AM – 12:00 PM	Joint Session with ACMG – Salt Palace Convention Center Could it be metabolic? Practical Approaches to Common Presentations Moderators: Georgianne Arnold and Shawn E. McCandless
10:30 AM – 11:00 AM	<i>Diagnostic approach to metabolic hepatomegaly</i> Jean Marie Saudubray, M.D. Senior metabolic consultant neurometabolic unit La Pitié Salpêtrière Hospital (APHP) Paris, France
11:00 AM – 11:30 AM	<i>Floppy Babies: How to think your way through the evaluation</i> Mark Korson, M.D. The Institute for Metabolic Education, Pittsburgh, PA/Boston, MA
11:30 AM – 12:00 PM	<i>Hypoglycemia: When is it Metabolic?</i> Georgianne Arnold, M.D., University of Pittsburgh, Pittsburgh, PA
12:00 PM – 1:00 PM	Lunch (on your own)
Scientific Session 2 1:00 PM - 3:00 PM	Joint Session with ACMG – Salt Palace Convention Center Diagnosis of Metabolic Disease in the 21st Century Moderators: Dietrich Matern and Georgianne Arnold
1:00 PM – 1:40 PM	<i>The NIH Undiagnosed Disease Program: Shedding light on the future of diagnosis of metabolic disease</i> William A. Gahl, M.D., Ph.D. National Human Genome Research Institute/NIH, Bethesda, MD
1:40 PM – 2:20 PM	<i>A web-based software for covariate-adjusted pattern recognition and integrated reporting of IEM biochemical phenotypes</i> Piero Rinaldo, M.D., Ph.D. Mayo Clinic, Rochester, MN
2:20 PM – 3:00 PM	<i>Treatable Neurometabolic Disorders</i> Clara van Karnebeek, M.D., Ph.D., FCCMG BC Children's Hospital, University of British Columbia, Vancouver, BC
3:00 PM - 6:00 PM	SIMD Board meeting – Embassy
4:00 PM – 6:00 PM	NAMA Board meeting - Ambassador
7:00 PM – 10:00 PM	Opening Reception – Grand Salon
Sunday, March 29, 2015	
7:00 AM – 8:00 AM	Breakfast – Grand Ballroom B
7:30 AM – 5:00 PM	Meeting Registration - Grand Ballroom Registration Desk
Scientific Session 3 8:00 AM –10:00 AM	Biomedical Engineering/Therapies: Bench to Bedside Grand Ballroom A & D Moderators: Dwight Koeberl and Sue Berry

8:00 AM – 8:35 AM	<i>Bioengineered human muscle for physiological studies and disease modeling</i> Nenad Bursac, Ph.D. Duke University, Durham, NC
8:35 AM – 9:10 AM	<i>Genome Engineering to Correct and Model Genetic Diseases</i> Charles A. Gersbach, Ph.D. Duke University Medical Center, Durham, NC
9:10 AM – 9:45 AM	<i>Mitochondrial Replacement Therapy</i> Shouhkrat Mitalipov, Ph.D. Oregon National Primate Research Center, Oregon Health & Science University, Portland, OR
9:45 AM – 10:15 AM	AM Coffee break - Posters and Exhibits open – Imperial Ballroom
10:15 AM – 10:50 AM	<i>Chimeric animals as models of rare disease research</i> Markus Grompe, M.D. Oregon Health & Science University, Portland, OR
10:50 AM – 11:25 AM	<i>Liver and liver/kidney transplantation in Organic Acidemias</i> Hilary Vernon, M.D., Ph.D. McKusick-Nathans Institute of Genetic Medicine, John Hopkins University Baltimore, MD
Scientific Session 4 11:25 AM – 12:10 PM	New Ideas: The Gut Microbiome as a Metabolic Organ Grand Ballroom A & D Moderators: Shawn E. McCandless
11:25 AM – 12:10 PM	<i>Gut microbiome metabolism of choline and L-carnitine and cardiovascular risk: Implications for metabolic disorders</i> W.H.Wilson Tang, M.D., F.A.C.C., F.A.H.A. Cleveland Clinic, Lerner College of Medicine at CWRU, Cleveland, OH
12:10 PM – 1:00 PM	Lunch – Grand Ballroom B
Scientific Session 5 1:00 PM – 3:00 PM	Oral Presentations from Travel Award Winners Grand Ballroom A & D Moderators: Melanie Gillingham and Carol Greene
1:00 PM – 1:15 PM	<i>Long-term Complications of Glycogen Storage Disease Type IA in the dog model treated with gene replacement therapy</i> Elizabeth D. Brooks, MS., DVM Duke University Medical Center, Durham, NC
1:15 PM – 1:30 PM	<i>N-Acetylmannosamine (ManNAc) is Safe and Increased Sialic Acid Production in GNE Myopathy Subjects</i> Brad Class, B.A. National Center for Advancing Translational Sciences (NCATS), NIH Bethesda, MD
1:30 PM – 1:45 PM	<i>Human IPS cell models of cholesterol synthesis disorders reveal WNT signaling defects underlie neurological dysfunction</i> Kevin Francis, Ph.D. NIH/NICHD, Bethesda, MD
1:45 PM – 2:00 PM	<i>Clarifying the phenotype of NGLY1 deficiency, the first congenital disorder of deglycosylation</i> Christina T. Lam, M.D. NHGRI/NIH, Bethesda, MD
2:00 PM – 2:15 PM	<i>Zinc finger nuclease-induced targeted integration of a glucose-6- phosphatase gene promotes survival in mice with glycogen storage disease type 1A</i> Dustin J. Landau, B.S. Duke University Medical Center, Durham, NC
2:15 PM – 2:30 PM	<i>Successful diagnosis of HIBCH deficiency from exome sequencing and positive retrospective analysis of newborn screening cards in two siblings presenting with Leigh's disease</i> Ashlee Stiles, Ph.D. Children's Hospital of Orange County, Orange, CA

2:30 PM – 2:45 PM	<p>Presentations from the 2014 Emmanuel Shapira Award Winner <i>Guanidinoacetate methyltransferase (GAMT) deficiency: Outcomes in 48 individuals and recommendations for diagnosis, treatment and monitoring</i> Sylvia Stockler-Ipsiroglu, M.D. British Columbia Children’s Hospital, Vancouver, BC Canada</p>
2:45 PM - 3:00 PM	<p>JSIMD Young Investigator award for best presentation at 2014 JSIMD meeting <i>GDF15 is a novel biomarker of mitochondrial diseases</i> Shuichi Yatsuga, M.D., Ph.D. Kurume University School of Medicine, Fukuoka, Japan</p>
3:00 PM – 4:00 PM	PM coffee break - Posters and Exhibits open - Imperial Ballroom
Scientific Session 6 4:00 PM – 5:30 PM	<p>Platform Presentations -- Selected Abstracts Presentation – new and exciting work of broad general interest to the SIMD membership Grand Ballroom A & D Moderators: Bruce Barshop and Cate Walsh Vockley</p>
4:00 PM – 4:15 PM	<p><i>The first two years of full population pilot newborn screening for Lysosomal Storage Disorders: the Missouri experience</i> Andrea M. Atherton, MS.,CGC Children’s Mercy Hospital, Kansas City, MO</p>
4:15 PM – 4:30 PM	<p><i>ABAT is a novel human mitochondrial DNA depletion syndrome gene linking Gamma-Aminobutyric Acid (GABA) catabolism and mitochondrial nucleoside metabolism</i> Penelope E. Bonnen, Ph.D. (presenting in place of Arnaud Besse, Ph.D.) Baylor College of Medicine, Houston, TX</p>
4:30 PM – 4:45 PM	<p><i>Odd or even? Results from a randomized trial of triheptanoin compared to MCT in patients with long-chain fatty acid oxidation disorders</i> Melanie Gillingham, Ph.D., RD Oregon Health & Science University, Portland, OR</p>
4:45 PM – 5:00 PM	<p><i>Carbonic Anhydrase VA deficiency: an important differential diagnosis of early onset hyperammonemia</i> Carmen Diez-Fernandez, Ph.D. University Children’s Hospital Zurich, Zurich, Switzerland</p>
5:00 PM – 5:15 PM	<p><i>Urinary glucose tetrasaccharide concentrations in patients with infantile and late-onset Pompe disease identified by newborn screening</i> Sarah Young, Ph.D., FACMG Duke University Medical Center, Durham, NC</p>
5:15 PM – 5:30 PM	<p><i>NGLY1 deficiency lies in the crosshairs of CDG and mitochondrial diseases</i> Miao He, Ph.D. University of Pennsylvania, The Children’s Hospital of Philadelphia, Philadelphia, PA</p>
5:30 PM - 7:00 PM	Optional Dinner to purchase (ticket required) – Grand Salon
Scientific Session 7	Poster Session and Reception– Imperial Ballroom
7:15 PM – 9:30 PM	Posters Attended by Authors and Exhibits open – Posters open to all Wine and dessert served
7:30 PM – 8:45 PM	Travel Award Poster Presentations (10 minute presentation at each poster from travel award winner attended by Founders' Award Committee)
7:30 PM – 7:40 PM Poster board #9	<p><i>Development of a rapid point-of-care blood phenylalanine meter for at home and bedside use</i> Omar Ayyub, Ph.D. Children’s National Medical Center, Washington, DC</p>
7:40 PM– 7:50 PM Poster board #30	<p><i>Identification and Characterization of the Biochemical and Physiological Functions of Acyl-CoA Dehydrogenase 10</i> Kaitlyn Bloom, Ph.D. The Children’s Hospital of Philadelphia, Philadelphia, PA</p>

7:50 PM – 8:00 PM Poster board #50	<i>In Vivo OXPHOS Quantitation by Magnetic Resonance Imaging in Metabolic Myopathy</i> Catherine M. DeBrosse, B.S. University of Pennsylvania, Philadelphia, PA
8:00 PM – 8:10 PM Poster board #19	<i>Mutations in MTIF2 cause a novel disorder of mitochondrial translation</i> Rebecca Ganetzky, M.D. Children's Hospital of Philadelphia, Philadelphia, PA
8:10 PM – 8:20 PM Poster board #64	<i>Diagnosing patients with methylmalonic aciduria - comparison of somatic cell and next generation sequencing panel testing</i> Mihaela Pupavac, Ph.D. Candidate McGill University, Montreal, Quebec
8:20 PM – 8:30 PM Poster board #81	<i>GM1 Gangliosidosis Type II: sub-classification of late infantile and juvenile patients based on age at symptom onset</i> Debra Regier, M.D., Ph.D. NHGRI/NIH, Bethesda, MD
8:30PM – 8:45PM	Committee review
Monday, March 30, 2015	
7:00 AM – 8:00 AM	Breakfast – Grand Ballroom B
8:00 AM – 12:00 PM	Meeting Registration – Grand Ballroom Registration Desk
Scientific Session 8 8:00 AM – 10:00 AM	Membrane Transporter Defects in Humans Grand Ballroom A & D Moderators: Nicola Longo and Laurie Smith
8:00 AM – 8:35 AM	<i>Families of membrane transporters in humans</i> Vadivel Ganapathy, Ph.D. Texas Tech University Health Sciences Center, Lubbock, TX
8:35 AM – 9:03 AM	<i>Lysinuric protein intolerance</i> Carlo Dionisi-Vici, M.D. Pediatrics Hospital Bambino Gesù, Rome, Italy
9:03 AM – 9:31 AM	<i>The expanding phenotype caused by riboflavin transporter deficiency</i> William Rhead, M.D., Ph.D. Medical College of Wisconsin, Milwaukee, WI
9:31 AM – 10:00 AM	<i>Citrin deficiency and the NADH shuttle</i> Fernando Scaglia, M.D. Baylor College of Medicine, Houston, TX
10:00 AM – 11:00 AM	AM Coffee break - Posters and Exhibits open – Imperial Ballroom
Scientific Session 9 11:00 AM – 12:30 PM	The Porphyrins Consortium of the NIH Rare Diseases Clinical Research Network (RDCRN): The Inborn Errors of Heme Biosynthesis Grand Ballroom A & D Moderators: Robert Desnick and Marshall Summar
11:00 AM – 11:05 AM	<i>Introduction on the RDCRN</i> Robert Desnick, Ph.D., M.D. Icahn School of Medicine at Mount Sinai, New York, NY
11:05 AM – 11:30 AM	<i>Heme Biosynthesis: Biochemistry, Biology, and Structural Biology</i> John D. Phillips, Ph.D. University of Utah Health Science Center, Salt Lake City, UT
11:30 AM – 12:00 PM	<i>The Porphyrins: Classification and Manifestations</i> Karl E. Anderson, M.D., FACP University of Texas Medical Branch/UTMB Health, Galveston, TX
12:00 PM – 12:30 PM	<i>Diagnosis and Treatment of the Porphyrins</i> Robert Desnick, Ph.D., M.D. Icahn School of Medicine at Mount Sinai, New York, NY
12:30 PM – 7:30 PM	Lunch and dinner on your own – Free Afternoon
1:00 PM – 6:00 PM	Posters on display

5:30 PM – 7:30 PM	NAMA Reception (by invitation only) Murano
7:30 PM – 8:00 PM	Past Presidential Address - Grand Ballroom A & D <i>Presidential Address: A quarter century later</i> C. Ron Scott, M.D. University of Washington, Seattle, WA
8:00 PM – 9:30 PM	SIMD Business Meeting and Award Presentations Emmanuel Shapira SIMD Award (First Author of Best Publication in MGM) Founders' Award (Best Oral Presentation by a Trainee)
Tuesday, March 31, 2015	
7:00 AM – 8:00 AM	Breakfast – Grand Ballroom B
7:30 AM – 10:00 AM	Meeting Registration - Grand Ballroom Registration Desk
Scientific Session 10 8:00 AM – 10:00 AM	Inborn Errors of Metabolism and Cancer - Grand Ballroom A & D Moderators: Fernando Scaglia and Lynne Wolfe
8:00 AM – 8:30 AM	<i>The role of succinate dehydrogenase and fumarate hydratase in tumorigenesis</i> Maya Lodish, M.D., MHSc National Institute of Child Health and Human Development/NIH, Bethesda, MD
8:30 AM – 9:00 AM	<i>The incidence of tumors in lysosomal storage disorders</i> Greg Pastores, M.D. Yale University School of Medicine, New Haven, CT
9:00 AM – 9:30 AM	<i>The association of Mitochondrial Hepatopathies and Childhood Liver Cancer</i> Ron Sokol, M.D. University of Colorado School of Medicine, Aurora, CO
9:30 AM – 10:00 AM	<i>2-hydroxyglutarate and metabolic reprogramming in cancer</i> Ralph DeBerardinis, M.D., Ph.D. University of Texas Southwestern, Dallas, TX
10:00 AM -10:30 AM	AM Coffee Break –Posters and Exhibits open - Imperial Ballroom
Scientific Session 11 10:30 AM – 11:45 AM	Controversies in Newborn Screening for Inborn Errors of Metabolism - Grand Ballroom A & D Moderators: Katrina Dipple and Marzia Pasquali
10:30 AM – 10:50 AM	<i>SCAD Deficiency: Differential Diagnosis and Relevance to Human health</i> William Rhead, M.D., Ph.D. Medical College of Wisconsin, Milwaukee, WI
10:50 AM – 11:10AM	<i>3-Methylcrotonyl-CoA Carboxylase-deficiency: To screen or not to screen?</i> Prof. Matthias R. Baumgartner, M.D. University Children's Hospital, Zurich, Switzerland
11:10 AM – 11:45 AM	<i>Short chain Acyl-CoA Dehydrogenase(SCAD) and 3-methyl-Crotonyl-CoA Carboxylase (3MCC) deficiencies and newborn screening</i> Marzia Pasquali, Ph.D., FACMG University of Utah School of Medicine, Salt Lake City, UT
11:45 AM -12:00PM	Closing Remarks