WORLD*Symposium* 2016 Program

Monday, February 29

| 1:00 – 5:00 | Pre-Conference Symposium | Emerging Trends: State of the art for experts (Registration required) |
|-------------|-------------------------------|---|
| 6:00 | Satellite Symposium | MPS I: New horizons and opportunities for |
| | Supported by PTC Therapeutics | change |
| | | (This session not available for CME credit) |

Tuesday, March 1, 2016

Basic Science I Co-Chairs: Walter Low, Danuta Krotoski, Gregory Grabowski

| 6:30 | Satellite Symposium | Optimizing Treatment in Morquio A: Capturing |
|-------|--|--|
| | Supported by BioMarin | multi-domain impact through patient-directed |
| | Pharmaceutical, Inc. | outcomes |
| | | (This session not available for CME credit) |
| 7:50 | Chester B. Whitley | Welcome and Opening Remarks |
| | University of Minnesota | |
| | Minneapolis, MN, United States | |
| 8:00 | Emil Kakkis | WORLDSymposium 2016 Award for Innovation |
| | Ultragenyx Pharmaceutical | and Accomplishment |
| | Novato, CA, United States | |
| 8:30 | Chrissa Dwyer | Lysosomal degradation of heparan sulfate is |
| | University of California San Diego | required for normal development of the neural |
| | La Jolla, CA, United States | circuitry |
| 8:45 | Camila de Aragao | Synaptic dysfunction in Sanfilippo syndrome |
| | CHU Sainte-Justine Mother and Child | type C |
| | University Hospital Center | |
| | Montreal, QC, Canada | |
| 9:00 | Vincent Puy | Alteration of cerebral iron metabolism in |
| | CHU Amiens, Centre de Biologie | Sanfilippo syndrome |
| | Humaine | |
| | Amiens, France | |
| 9:15 | S. Pablo Sardi | Glucosylceramide synthase inhibition reduces α- |
| | Genzyme, a Sanofi company | synuclein pathology and improves cognition in |
| | Framingham, MA, United States | murine models of synucleinopathy |
| | | (This session not available for CME credit) |
| 9:30 | Mia Horowitz | Presence of mutant GBA allele leads to ER stress |
| | Tel Aviv University | and development of Parkinson's disease |
| | Ramat Aviv, Israel | |
| 9:45 | Yvonne L. Latour | Development of isogenic human cerebral |
| | National Institutes of Health | organoids with beta-galactosidase deficiency |
| | Bethesda, MD, United States | |
| 10:00 | Break & Exhibits | |
| 10:15 | Manoj K. Pandey | Immune cells attack and neurodegeneration in |
| | Cincinnati Children's Hospital Medical | Gaucher disease |
| | Center | |
| | Cincinnati, OH, United States | |

| 10:30 | Debora Bertholdo | Structural changes in the brain of patients with |
|-------|---------------------------------|---|
| | DAPI - Diagnóstico Avançado por | Gaucher disease |
| | Imagem | |
| | Curitiba, Brazil | |
| 10:45 | Volkan Seyrantepe | Deletion of sialidase NEU3 causes progressive |
| | Izmir Institute of Technology | neurodegeneration in Tay-Sachs mice |
| | Izmir, Turkey | |
| 11:00 | Andreas Schaaf | Moss-aGal: preclinical evaluation of a plant |
| | Greenovation Biotech GmbH | made enzyme replacement for Fabry disease |
| | Freiburg, Germany | (This session not available for CME credit) |
| 11:15 | Jin-Song Shen | Sortilin expression and uptake of α-galactosidase |
| | Baylor Research Institute | A: a general mechanism of endocytosis in Fabry |
| | Dallas, TX, United States | disease cell types |
| 11:30 | Lunch | Council of Patient Advocates (COPA) lunch |
| | | meeting |
| | | or Lunch Satellite Symposium supported by |
| | | Ultragenyx |
| | | or Lunch on-your-own |
| | | (Lunch sessions not available for CME credit) |

Basic Science II

Co-Chairs: Scott McIvor, Rashmi Gopal-Srivastava

| 1:00 | Takahiro Tsukimura | Anti-α-galactosidase A antibodies and serum- |
|------|---|--|
| | Meiji Pharmaceutical University Kiyose, Japan | mediated inhibition in Fabry disease |
| 1:15 | Derrick T. Deming | The molecular basis of Pompe disease: crystal |
| | University of Massachusetts Amherst Amherst, MA, United States | structure of acid alpha-glucosidase |
| 1:30 | Nina Raben | Pompe disease: from pathophysiology to |
| | National Institutes of Health Bethesda, MD, United States | therapy and back again |
| 1:45 | Richard Steet | Cathepsin-mediated alterations in TGF-β related |
| | University of Georgia Athens, GA, United States | signaling underlie the cartilage and bone defects associated with impaired lysosomal targeting |
| 2:00 | Zhirui Jiang | Reduced chondrocyte proliferation and |
| | The University of Adelaide | hypertrophy contribute to delayed endochondral |
| | Adelaide, Australia | bone formation in murine |
| | | mucopolysaccharidosis VII |
| 2:15 | Alessandra d'Azzo | Pathogenic cascade downstream of NEU1 |
| | St.Jude Children's Research Hospital | regulated lysosomal exocytosis |
| | Memphis, TN, United States | |
| 2:30 | Jonathan H. LeBowitz | Utilizing activity assays and population-wide |
| | BioMarin Pharmaceutical, Inc. | allele frequencies to assess the contribution of |
| | Novato, CA, United States | novel mutations in NAGLU to MPS IIIB incidence (This session not available for CME credit) |
| 2:45 | Break & Exhibits | |
| 3:00 | Maria Fuller | Manipulation of regional brain |
| | SA Pathology | bis(monoacylglycero)phosphate in the MPS I |
| | North Adelaide, Australia | mouse by dietary fatty acid supplementation |
| 3:15 | Kanut Laoharawee | AAV9 mediated correction of iduronate-2- |
| | University of Minnesota | sulfatase deficiency in the central nervous |
| | Minneapolis, MN, United States | system of mucopolysaccharidosis type II mice |
| | | |

| 3:30 | Kanagaraj Subramanian | Quantitative analysis of the proteome response |
|------|--|--|
| | The Scripps Research Institute | to histone deacetylase inhibitor in Niemann-Pick |
| | La Jolla, CA, United States | disease |
| 3:45 | Li Ou | ZFN-mediated correction of murine MPS I model |
| | University of Minnesota | by expression of the human IDUA cDNA from the |
| | Minneapolis, MN, United States | albumin "safe harbor" locus |
| 4:00 | Richie Khanna | Co-administration of the pharmacological |
| | Amicus Therapeutics | chaperone AT2221 with a proprietary |
| | Cranbury, NJ, United States | recombinant human acid alfa-glucosidase leads |
| | | to greater plasma exposure and substrate |
| | | reduction compared to alglucosidase alfa |
| | | (This session not available for CME credit) |
| 4:15 | Mustafa A. Kamani | Reduced glucocerebrosidase activity improves |
| | University Health Network | acid ceramidase deficient mice |
| | Toronto, ON, Canada | |
| 4:30 | Poster Reception & Presentation | (Poster session not available for CME credit) |
| 6:30 | Dinner Satellite Symposium | The Many Faces of Lysosomal Disease: A Global |
| | Supported by Amicus Therapeutics, Inc. | Perspective |
| | | (This session not available for CME credit) |

Wednesday, March 2, 2016

Translational Research I Co-Chairs: Jill Morris, Raphael Schiffmann

| 6:30 | Breakfast Satellite Symposium | Discovery and Research Platforms in Rare |
|------|---------------------------------------|--|
| | Supported by Shire | Disease |
| | | (This session not available for CME credit) |
| 7:50 | Chester B. Whitley | Announcements |
| | University of Minnesota | |
| | Minneapolis, MN, United States | |
| 8:00 | Christopher P. Austin | Keynote Address: |
| | National Institutes of Health | Catalyzing translational innovation |
| | Bethesda, MD, United States | |
| 8:30 | Lalitha Belur | Intranasal gene delivery of AAV9 iduronidase: a |
| | University of Minnesota | non-invasive and effective gene therapy |
| | Minneapolis, MN, United States | approach for prevention of neurologic disease in |
| | | a murine model of mucopolysaccharidosis type I |
| 8:45 | Tammy Kielian | Adeno-associated virus 9 gene therapy for |
| | University of Nebraska Medical Center | juvenile neuronal ceroid lipofuscinosis |
| | Omaha, NE, United States | |
| 9:00 | Walter L. Acosta | Lectin-mediated delivery of α-L-iduronidase: a |
| | BioStrategies LLC | novel approach for MPS I enzyme replacement |
| | State University, AR, United States | therapy |
| | | (This session not available for CME credit) |
| 9:15 | Elma Aflaki | iPSC-derived dopaminergic neurons from |
| | NIH/NHGRI | patients with Gaucher disease and Parkinsonism |
| | Bethesda, MD, United States | demonstrate the potential of a new |
| | | glucocerebrosidase chaperone |
| 9:30 | Allison Bradbury | Natural history study and preliminary |
| | University of Pennsylvania | assessment of therapies in canine globoid cell |
| | Philadelphia, PA, United States | leukodystrophy |

| 9:45 | Haiyan Fu | Functional benefits of systemic rAAV9-HIDS gene |
|-----------|--|---|
| | Research Institute at Nationwide | delivery in MPS II mouse model |
| | Children's Hospital Columbus, OH, United States | (This session not available for CME credit) |
| 10:00 | Break & Exhibits | ,, |
| 10:15 | Behzad Najafian | Podocyte globotriaosylceramide (GL-3) content |
| 10.13 | University of Washington | in male adult patients with Fabry disease |
| | Seattle, WA, United States | reduces following 6-12 months of treatment |
| | | with migalastat |
| 10:30 | Baodong Sun | New perspectives for ERT in Pompe disease: |
| | Duke University School of Medicine | extending the action of the enzyme to cytosolic |
| | Durham, NC, United States | targets |
| 10:45 | Mark Tarnopolsky | Exosome-mRNA and exosome-protein therapy |
| | McMaster University | for Niemann-Pick disease type C |
| | Hamilton, ON, Canada | |
| 11:00 | Rasa Ghaffarian | ICAM-1 targeting by direct conjugation enhances |
| | University of Maryland | gastrointestinal transcytosis and encapsulation |
| | College Park, MD, United States | enables gastric protection and controlled |
| | | released for oral enzyme delivery |
| 11:15 | Sang-oh Han | Minimum effective dose for immune tolerance |
| | Duke University Medical Center | induction with an adeno-associated virus vector |
| 11.20 | Durham, NC, United States Lunch Break | in Pompe disease |
| 11:30 | Lunch Break | Lunch on-your-own, or Lunch Satellite Symposium supported by Shire International |
| | | (Lunch session not available for CME credit) |
| Translati | onal Research II | Co-Chairs: Danilo Tagle, Dolan Sondhi |
| 1:00 | Rachel L. Manthe | Enhanced lysosomal enzyme delivery across the |
| | University of Maryland | blood-brain barrier by modulating the valency of |
| | College Park, MD, United States | ICAM-1-targeted nanocarriers |
| 1:15 | Adeel Safdar | Exosome-mRNA (EXERNA) therapy for Pompe |
| | | |
| | McMaster University | disease |
| 1:30 | Hamilton, ON, Canada | disease (This session not available for CME credit) |
| 1:30 | Hamilton, ON, Canada Heather L. Gray-Edwards | disease (This session not available for CME credit) Long term survival after gene therapy in a feline |
| 1:30 | Hamilton, ON, Canada Heather L. Gray-Edwards Auburn University | disease (This session not available for CME credit) |
| | Hamilton, ON, Canada Heather L. Gray-Edwards Auburn University Auburn University, AL, United States | disease (This session not available for CME credit) Long term survival after gene therapy in a feline model of Sandhoff disease |
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| 2:30 | Russell DeKelver | ZFN-mediated in vivo genome editing results in |
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| | Sangamo BioSciences | supraphysiological levels of human iduronate 2- |
| | Richmond, CA, United States | sulfatase and phenotypic correction in a murine |
| | | MPS II model |
| | | (This session not available for CME credit) |
| 2:45 | Break & Exhibits | |
| 3:00 | Anita Grover | Intracerebroventricular administration of BMN |
| | BioMarin Pharmaceutical, Inc. | 250 to cynomolgus monkeys results in elevated |
| | Novato, CA, United States | tissue levels and superior biodistribution in the |
| | | central nervous system in comparison to |
| | | intravenous delivery |
| 2.45 | | (This session not available for CME credit) |
| 3:15 | Zoheb B. Kazi | Prophylactic immune modulation in infantile |
| | Duke University | Pompe disease using low-dose methotrexate |
| | Durham, NC, United States | induction: a safe, inexpensive, widely accessible, |
| 2.20 | W. J.L. P | and efficacious strategy |
| 3:30 | Yedda Li | Combination therapy increases lifespan and |
| | Washington University in St. Louis | improves clinicobehavioral performance in the |
| 2.45 | Saint Louis, MO, United States | murine model of globoid cell leukodystrophy |
| 3:45 | Aaron Meadows | Functional correction of mucopolysaccharidosis I |
| | Research Institute at Nationwide | in adult mice by a systemic rAAV9-IDUA gene |
| | Children's Hospital | delivery |
| 4:00 | Columbus, OH, United States Angela Schulz | Intracorobroventricular carlinonace alfa (DMAN |
| 4:00 | University Medical Center | Intracerebroventricular cerliponase alfa (BMN 190) in children with CLN2 disease: Interim |
| | Hamburg-Eppendorf | results from a phase 1/2, open-label, dose- |
| | Hamburg, Germany | escalation study |
| 4:15 | Gizely N. Andrade | Multisensory processing in lysosomal disorders: |
| 4:15 | Albert Einstein College of Medicine | a behavioral and high-density electrophysiology |
| | Bronx, NY, United States | |
| | Biolix, NY, Officed States | investigation in Niemann-Pick disease type C and cystinosis |
| 4.20 | Dostov Dosoution & Duosoutotion | (Poster session not available for CME credit) |
| 4:30 | Poster Reception & Presentation | (i oster session not available for civil circuit) |
| 6:30 | Dinner Satellite Symposium | How Early is Early? When to Start ERT and Other |
| | CME Satellite Sponsored by MedIQ. | Considerations for Optimizing Treatment of |
| | Supported by an educational grant | Fabry Disease |
| | from Sanofi Genzyme | (Satellite session available for CME credit through MedIQ) |

Thursday, March 3, 2016

Clinical Trials I

Co-Chairs: Stephen Groft, Elsa Shapiro

| 6:30 | Breakfast Satellite Symposium Supported by BioMarin Pharmaceutical, Inc. | Recognizing the signs of CLN2 disease — emerging evidence for a paradigm shift in CLN2 diagnosis (This session not available for CME credit) |
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| 7:50 | Chester B. Whitley University of Minnesota Minneapolis, MN, United States | Announcements |
| 8:00 | Barbara K. Burton Ann & Robert H. Lurie Children's Hospital Chicago, IL, United States | Newborn screening for lysosomal diseases in Illinois |

| 8:30 | Fairfax, VA, United States Arunabha Ghosh | IDIIA mutational profile and geneture |
|------------|--|--|
| 8:30 | St. Mary's Hospital | IDUA mutational profile and genotype- phenotype correlations in |
| | Manchester, United Kingdom | mucopolysaccharidosis type I |
| 8:45 | Hernan Amartino | New measure to assess severity of MPS II: the |
| 0.43 | Hospital Universitario Austral | disease severity score |
| | Buenos Aires, Argentina | discuse severney soore |
| 9:00 | Nathan J. Rodgers | Thirty year follow-up in Hurler syndrome after |
| | University of Minnesota | hematopoietic cell transplantation: the |
| | Minneapolis, MN, United States | University of Minnesota experience |
| 9:15 | Christian J. Hendriksz | Impact of long-term elosulfase alfa treatment or |
| | Salford Royal Foundation NHS Trust | pulmonary function in patients with Morquio |
| | Manchester, United Kingdom | syndrome type A |
| 9:30 | Paul R. Harmatz | Impact of elosulfase alfa in patients with |
| | UCSF Benioff Children's Hospital | Morquio syndrome type A who have limited |
| | Oakland | ambulation: an open-label, phase 2 study |
| | Oakland, CA, United States | |
| 9:45 | Deborah Elstein | Therapeutic goals and normal clinical values |
| | Shaare Zedek Medical Center, affiliated | achieved within 4 years of initiating |
| | with the Hebrew University-Hadassah | velaglucerase alfa in treatment-naïve patients |
| | Medical School | with Gaucher disease in phase 3 studies |
| | Jerusalem, Israel | |
| 10:00 | Break & Exhibits | |
| 10:15 | Timothy M. Cox | Four-year follow-up from the ENCORE trial: a |
| | University of Cambridge | randomized, controlled, non-inferiority study |
| | Addenbrooke's Hospital | comparing eliglustat to imiglucerase in patients |
| | Cambridge, United Kingdom | with Gaucher disease type 1 stabilized on |
| | | enzyme replacement therapy |
| 10:30 | Patrick B. Deegan | Risk factors for fracture in imiglucerase-treated |
| | Addenbrooke's Hospital | Gaucher disease type 1 patients in the ICGG |
| | Cambridge, United Kingdom | Gaucher Registry |
| 10:45 | Magy Abdelwahab | Long-term follow up and sudden unexpected |
| | Cairo University Pediatric Hospital | death in Gaucher disease type 3 in Egypt |
| | Cairo, Egypt | |
| 11:00 | Ari Zimran | Long-term efficacy and safety results of |
| | Shaare Zedek Medical Centre | taliglucerase alfa through 5 years in adult |
| | Jerusalem, Israel | treatment-naïve patients with Gaucher disease |
| 11:15 | Gerald Cox | Functional performance in patients with late- |
| | Sanofi Genzyme | onset Tay-Sachs and Sandhoff diseases |
| 44.20 | Cambridge, MA, United States | Last Catallia Casasiana and the |
| 11:30 | Lunch Break | Lunch Satellite Symposium supported by |
| | | Sanofi Genzyme |
| | | or lunch on-your-own (Lunch session not available for CME credit) |
| Clinical 1 | Γrials II | Co-Chairs: James Cloyd, Ari Zimra |
| 1:00 | Luciana Giugliani | Disease duration and survival in Brazilian |
| | Hospital de Clínicas de Dante Alassa | Nichana Diele diagona tura Captionta |

Niemann-Pick disease type C patients:

Preliminary data on potential impact of miglustat

Hospital de Clínicas de Porto Alegre

Porto Algre, Brazil

| 1:15 | Forbes D. Porter | Phase 1/2 evaluation of intrathecal 2- |
|------|---|--|
| | National Institutes of Health | hydroxypropyl-β-cyclodextrin for the treatment |
| | Bethesda, MD, United States | of Niemann-Pick disease, type C1 |
| 1:30 | Christine Dali | Intrathecal delivery of recombinant human |
| | Department of Clinical Genetics, | arylsulfatase A in children with late-infantile |
| | Rigshospitalet | metachromatic leukodystrophy |
| | Copenhagen, Denmark | metaemomatic reakouystrophy |
| 1.45 | Loren Pena | Dhasa 1 avalaratory office ay of the nevel anayma |
| 1:45 | | Phase 1 exploratory efficacy of the novel enzyme |
| | Duke University | replacement therapy neoGAA in treatment-naïve |
| | Durham, NC, United States | and alglucosidase alfa-treated late-onset Pompe disease patients |
| 2:00 | Mark Friedman | Safety findings from 3 trials of treatment with |
| 2.00 | Alexion Pharmaceuticals, Inc. | sebelipase alfa in children and adults with |
| | • | • |
| | Lexington, MA, United States | lysosomal acid lipase deficiency (This session not available for CME credit) |
| 2:15 | Simon A. Jones | Effect of sebelipase alfa on survival and liver |
| | Manchester Centre for Genomic | function in infants with rapidly progressive |
| | Medicine, St Mary's Hospital, Central | lysosomal acid lipase deficiency: 2-year follow- |
| | Manchester Foundation Trust, | up data |
| | University of Manchester | • |
| | Manchester, United Kingdom | |
| 2:30 | Robert J. Desnick | Evolution of cardiac pathology in type 1 classic |
| | Icahn School of Medicine at Mount | Fabry disease: progressive cardiomyocyte |
| | Sinai | enlargement leads to increased cell death and |
| | New York, NY, United States | fibrosis, and correlates with severity of |
| | , , | ventricular hypertrophy |
| 2:45 | Break & Exhibits | |
| 3:00 | Franklin K. Johnson | Comparison of integrated white blood cell alpha- |
| | Amicus Therapeutics | galactosidase A activity exposure between |
| | Cranbury, NJ, United States | every-other-day orally administered migalastat |
| | ,, | and biweekly infusions of agalsidase beta or |
| | | agalsidase alfa |
| | | (This session not available for CME credit) |
| 3:15 | Derralynn Hughes | Novel treatment for Fabry disease: IV |
| | University College London | administration of plant derived alpha-GAL-A |
| | London, United Kingdom | enzyme safety and efficacy interim report |
| 3:30 | Patricio Aguiar | Urinary type VI collagen: better than albuminuria |
| 5.55 | Centro Hospitalar Lisboa Norte | to identify incipient Fabry nephropathy |
| | Lisbon, Portugal | to identify marpient rusty nephropatry |
| 3:45 | David G. Warnock | Anti-proteinuric therapy and Fabry nephropathy; |
| J | UAB | factors associated with preserved kidney |
| | Birmingham, AL, United States | function during agalsidase-beta therapy |
| 4:00 | Dau-Ming Niu | Revisited later-onset cardiac type Fabry disease: |
| | Taipei Veteran General Hospital | cardiac damages progressed in silence, the |
| | Taipei, Taiwan | experiences from an extremely high prevalent |
| | · · · · · · · · · · · · · · · · · · · | area, Taiwan |
| 4:15 | Suma P. Shankar | Eye findings in Fabry disease and correlation |
| 4:13 | | |
| 4.15 | Emory University School of Medicine | with disease severity |
| 4.15 | Emory University School of Medicine Atlanta, GA, United States | with disease severity |
| | Atlanta, GA, United States | · |
| 6:00 | | (Not available for CME credit) |