Heme Biosynthesis & the Porphyrias: 2021 Program

Thursday October 14, 2021			
8:00 pm	Faculty Dinner		
	Friday October 15, 2021		
	Session 1 - Introduction to Heme Biosynthesis and the Porphyrias		
	Chairs: Robert J. Desnick, PhD, MD and Sverre Sandberg, MD, PhD		
1:00 pm	Welcome and Symposium Overview Robert J. Desnick, PhD, MD, Icahn School of Medicine at Mount Sinai, NYC		
1:15 pm	Heme Biosynthesis: Overview, Latest Advances and COVID-19 John D. Phillips, PhD, University of Utah, Salt Lake City		
1:45 pm	Overview of the Hepatic and Erythropoietic Porphyrias Janneke Langendonk, MD, PhD, Erasmus Medical Center, Rotterdam, Netherlands		
2:15 pm	Porphyria Genetics, Genomics and Modifying Genes Robert J. Desnick, PhD, MD, Icahn School of Medicine at Mount Sinai, NYC		
2:50 pm	Porphyria Diagnostics: First- and Second-line Testing Karl Anderson, MD, University of Texas Medical Branch, Galveston		
3:25 pm	Break and Poster Viewing		
Session 2 – Acute Hepatic Porphyrias (AHPs)			
	Chairs: Karl Anderson, MD and Hetanshi Naik, PhD		
3:40 pm	Acute Hepatic Porphyrias (AHP): Pathogenesis, Manifestations, & Variants Eliane Sardh MD, PhD, Karolinska Institute, Stockholm		
4:15 pm	AHPs – Neurologic Involvement Elena Pischik, MD, PhD, Consultative and Diagnostic Center with Polyclinics, St. Petersburg		
4:50 pm	AHPs: Current Management & Treatment Herbert Bonkovsky, MD, Wake Forest Baptist Medical Center, Winston-Salem		
5:25 pm	Acute Intermittent Porphyria (AIP) Patient Interview Sioban Keel, MD, University of Washington, Seattle		
5:45 pm	ALAD Deficient Porphyria Karl Anderson, MD, University of Texas Medical Branch, Galveston		
6:15 pm	Adjourn		
7:30 pm	Reception and Attended Poster Session Moderated by Simon Beaven, M.D, University of Los Angeles, Los Angeles		
8:30 pm	Dinner—Talk Tables for Mentorship and Networking		
Saturday October 16, 2021			
7:00 am	Breakfast—Talk Tables for Mentorship and Networking		
Session 3 - Heme Biosynthesis: Recent Research			
	Chairs: John Phillips, PhD and Antonio Fontanellas, PhD		
8:00 am	Regulation of Heme Synthesis During Erythropoiesis by the Immunometabolite Itaconate Harry Dailey, PhD, University of Georgia, Athens		

8:35 am	Structure-Based Drug Design to Aminolevulinate Synthase 2 Wyatt Yue, PhD, University of Oxford, Oxford
9:10 am	ALAD Is an Iron Sulfur Cluster Enzyme Tracey A. Rouault, MD, NIH Division of Intramural Research Program, Bethesda
9:45 am	Heme Biosynthesis: Single Cell Hepatocyte Studies Bruce Wang, MD, University of California at San Francisco, San Francisco
10:20 am	Break and Poster Viewing
	Chairs: Michael Badminton, MB, ChB, PhD and John Quigley, MD
10:35 am	Exploring the Complex(ity) of Heme Biosynthesis & Distribution Amy Medlock, PhD, University of Georgia, Athens
11:10 am	Heme Tolerance and Metabolism Iqbal Hamza, PhD, University of Maryland, College Park
11:45 am	Investigation of Hepatic Heme Homeostasis Using an Inducible Hepatocyte-Specific Alas1 Knockout Mouse Makiko Yasuda, MD, PhD, Icahn School of Medicine at Mount Sinai, NYC
12:20 am	Intracellular Heme Dynamics in Adipocytes Enrique Saez, PhD, Scripps Research, La Jolla
12:55 pm	Lunch—Talk Tables for Mentorship and Networking
	Session 4 - Porphyria Cutanea Tarda (PCT)
	Chairs: Herbert Bonkovsky, MD and Manish Thapar, MD
1:45 pm	Porphyria Cutanea Tarda (PCT): Variants & Current Treatment John Phillips, PhD, University of Utah, Salt Lake City
2:20 pm	Porphyria Cutanea Tarda (PCT) Patient Interview and Discussion Herbert Bonkovsky, MD, Wake Forest Baptist Medical Center, Winston-Salem
2:40 pm	Break and Poster Viewing
	Session 5 - Erythropoietic Porphyrias
	Chairs: Manisha Balwani, MD, MS and Jean-Charles Deybach, MD, PhD
3:00 pm	Congenital Erythropoietic Porphyria (CEP): Manifestations & Current Treatment Angelika Erwin, MD, PhD, Cleveland Clinic, Cleveland
3:35 pm	CEP Patient Interview Robert J. Desnick, PhD, MD, Icahn School of Medicine at Mount Sinai, NYC
3:55 pm	Erythropoietic Protoporphyria (EPP) & X-Linked Protoporphyria (XLP): Variants & Current Treatment Manisha Balwani, MD, MS, Icahn School of Medicine at Mount Sinai, NYC
4:30 pm	EPP/XLP Patient Interview Cynthia Levy, MD, University of Miami, Miami
4:50 pm	EPP: A Physician-Patient's Perspective and Patient Survey Amy Dickey, MD, Massachusetts General Hospital, Boston
5:10 pm	EPP: Late Breaking Research Janneke Langendonk, MD, PhD, Erasmus Medical Center, Rotterdam, Netherlands
5:30 pm	Mechanism of Phototoxicity and the Erythropoietic Porphyrias Bishr Omary, MD, PhD, Rutgers Biomedical and Health Sciences, Piscataway
5:50 pm	Adjourn
7:00 pm	Reception and Attended Poster Session Moderated by Brendan McGuire, MD, University of Alambama, Birmingham,

8:00 pm	Dinner
	Sunday October 17, 2021
7:30 am	Breakfast—Talk Tables for Mentorship and Networking
	Session 6 - Emerging Treatments
	Chairs: Bruce Wang, MD and Janneka Langendonk, MD
8:30 am	Enzyme and Gene Therapy for Acute Intermittent Porphyria Antonio Fontanellas, PhD, Center for Applied Medical Research (CIMA), University of Navarra, Pamplona
9:10 am	Ciclopirox for CEP Oscar Millet, PhD, CICbioGUNE and Atlas Molecular Pharmaceuticals, Bilbao and Madrid
9:50 am	Emerging Treatments for Erythropoietic Protoporphyria J.C Deybach, MD, PhD, Paris Diderof University, Paris
10:30 am	Break and Poster Viewing
10:45 am	Preclinical Studies on the Role of ABCG2 in Erythropoietic Protoporphyria Xiaochao Ma, PhD, University of Pittsburgh, Pittsburgh
11:25 am	Late Breaking Research
12:00 pm	Adjourn
12:00 pm	Lunch—Talk Tables for Networking and Mentoring
	Session 7- Porphyria Biochemical and Molecular Diagnostics
	Chairs: Karl Anderson, MD and Robert J. Desnick, PhD, MD
1:00 pm	Porphyria Diagnostics: International Issues and Goals Michael Badminton, MB, ChB, PhD, Cardiff University, Cardiff
1:15 pm	Improving Porphyria Diagnostics: Pre-analytical, Analytical and Post-analytical Aspects Sverre Sandberg, MD, PhD, University of Bergen, Bergen, Norway
1:45 pm	Diagnosis of PCT and Erythropoietic Porphyria Karl E. Anderson, MD, University of Texas Medical Branch, Galveston
2:00 pm	Diagnostic Guidelines and International Molecular Database Robert J. Desnick, PhD, MD, Icahn School of Medicine at Mount Sinai, NYC
2:30 pm	Need for Harmonization in Diagnostic Testing and Reporting Moderator: Discussion: Diagnostic Lab Participation
3:00 pm	Closing Remarks Robert J. Desnick, PhD, MD, Icahn School of Medicine at Mount Sinai, NYC

	Sunday October 17, 2021 Session 8: Concurrent Patient Session
	Chairs: Cynthia Levy, MD and Charles Parker, MD
10:00 am	Welcome and American Porphyria Foundation (APF) Update Kristen Wheeden, American Porphyria Foundation, Executive Director
10:05 am	APF Goes Global Desiree Lyon, American Porphyria Foundation, Global Director
10:15 am	Overview and What's New in the Porphyrias Diagnosis, management, and treatment
	Guidelines and Long-Term Follow-Up for all Porphyrias Manisha Balwani, MD, MS, Icahn School of Medicine at Mount Sinai, NYC
	AHP Michael Badminton, MB, ChB, PhD, Cardiff University, Cardiff
	PCT Karl Anderson, MD, Karl Anderson, University of Texas Medical Branch, Galveston
	EPP/XLP Manisha Balwani, MD, MS, Icahn School of Medicine at Mount Sinai, NYC
	CEP Angelika Erwin, MD, PhD, Cleveland Clinic, Cleveland
11:30 am	Emerging Treatments in the Porphyrias Discussion about new and potential treatments in the porphyrias Jean-Charles Deybach, MD, PhD, Paris Diderof University, Paris, France
12:00 pm	Research Is the Key to Your Cure! Current research and how to get involved Karli Hedstrom, MPH, Icahn School of Medicine at Mount Sinai, NYC
12:15 pm	Pain in the Porphyrias Explain and discuss pain in the Acute (Hepatic) and Cutaneous (Erythropoietic) Porphyrias Elena Pischik, MD, PhD, Consultative and Diagnostic Center with Polyclinics, St. Petersburg Mohamed Kazamel, MD, University of Alabama, Birmingham
12:45 pm	Lunch
	Chairs: Sean Rudnick, MD and Gregory Vercellotti, MD
1:15 pm	Quality of Life and Psychosocial Issues Issues and impact beyond the physical symptoms Hetanshi Naik, PhD, Icahn School of Medicine at Mount Sinai, NYC
1:45 pm	Cannabis Use and Alternative Medicines Results of a patient survey <i>Hetanshi Naik, PhD, Icahn School of Medicine at Mount Sinai, NYC</i>
2:00 pm	Ask the Porphyria Experts Panel Bruce Wang, Sioban Keel, Cynthia Levy, and Brendan McGuire
2:45 pm	Get Involved – what you can do as a rare disease patient Highlights of ways to be involved in education, awareness, advocacy and support programs <i>Kristen Wheeden, Executive Director, APF</i>
3:00 pm	Adjourn