

UMDF Mitochondrial Medicine 2023 Agenda

TRACKS	Scientific Program	Clinical Program	Family Program Track 1	Family Program Track 2	LHON Program	Teen Sessions	Doc Is In (1:1 sessions)
Tuesday, June 27							
	Speaker & Topic	Speaker & Topic					
12:00p-5:00p	NAMDC Closed Session - NON CME	NAMDC Closed Session - NON CME	Patient/Family Sessions are NON CME				
Wednesday, June 28							
	Speaker & Topic	Speaker & Topic					
Platform Session 1 - Mito Inflammation							
8:00a-8:30a	Welcome and Opening Remarks <i>Patient Story - Kendall's Journey</i>						
8:30a-9:00a	Nucleic Acid-mediated Mitonuclear Signaling Gerald Shadel, PhD <i>Salk Institute for Biological Studies</i> <i>LaJolla, CA</i>						
9:00a-9:30a	PINK1- and Parkin-mediated Mitophagy and Links to Inflammation and Neurodegeneration Richard J. Youle, PhD <i>National Institutes of Health</i> <i>Bethesda, MD</i>						
9:30a-10:00a	Extracellular ATP Signaling, Inflammation, and Mitochondrial Dysfunction Robert Naviaux, MD, PhD <i>University of California San Diego</i> <i>LaJolla, CA</i>						
10:00a-10:30a	<i>Break</i>						
10:30a-11:00a	OxPhos Defects, Inflammation and Hypermetabolism Martin Picard, PhD <i>Columbia University Irving Medical Center</i> <i>New York, NY</i>						
11:00a-11:30a	NON CME - Abstract Presentation Short Talks Allison Hanaford, PhD <i>Peripheral Macrophages Causally Contribute to Disease Onset And Progression in the Ndufs4(KO) Model of Leigh syndrome</i> Emily Warren, PhD <i>Inflammatory and Interferon Gene Expression Signatures in Patients with Mitochondrial Disease</i>	Circulating, Cell-free Mitochondrial DNA in Critical Illness Mark Hepokoski, MD <i>University of California San Diego</i> <i>LaJolla, CA</i>					

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11:30a-12:00p	<p>NON CME - Abstract Presentation Short Talks Temiaikov Dmitry, PhD <i>Molecular Basis for Maternal Inheritance of Human Mitochondrial DNA</i></p> <p>Jose Luis Marin Franco, PhD <i>Single-cell Evaluation of Bioenergetics by Flow Cytometry (e-Flo)</i></p>	<p>Are Patients with Mitochondrial Diseases Hypermetabolic? Martin Picard, PhD <i>Columbia University Irving Medical Center New York, NY</i></p>					
12:00p-12:30p	<p>NON CME - Abstract Presentation Short Talks Sonal Sharma, MD <i>Identifying Neuroimaging Patterns in Mitochondrial Leukoencephalopathies</i></p> <p>Ngoc Hoang, PhD <i>Sex-specific Colonic Mitochondrial Dysfunction and Improvement with Mitochondrial Targeted Therapies in the Indomethacin-induced Inflammatory Bowel Disease Model in Rats</i></p>	<p>Neurometabolic Regression Risk with Infection in Primary Mitochondrial Disease Robert Naviaux, MD, PhD <i>University of California San Diego LaJolla, CA</i></p>					
12:30p-2:00p	<i>Lunch</i>						
Platform Session 2 - Mysteries of mtDNA							
2:00p-2:30p	<p>Mitochondrial-DNA Encoded Microproteins Pinchas Cohen, MD <i>University of Southern California Davis Los Angeles, CA</i></p>						
2:30p-3:00p	<p>The Regulatory Interaction Between the Mitochondria and the Nucleus is Important for Health, Disease and Evolution Dan Mishmar, PhD <i>Ben-Gurion University of the Negev Beer Sheva, Israel</i></p>						
3:00p-3:30p	<p>Stem Cells, Organoids, and Imaging Technologies to Delineate the Cellular and Molecular Changes in COVID-19 Robert E. Schwartz, MD, PhD <i>Weill Cornell Medicine New York, NY</i></p>						
3:30p-4:00p	<i>Break</i>						
4:00p-4:30p	<p>mtDNA Haplogroup Disease Associations Douglas Wallace, PhD <i>Children's Hospital of Philadelphia Research Institute Philadelphia, PA</i></p>						

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4:30p-5:00p	<p>NON CME - Abstract Presentation Short Talks Ryan Snyder, PhD <i>Hemin Impairs Mitochondrial Gene Expression and Induces Guanine Quadruplexes in Human Renal Proximal Tubule Cells</i></p> <p>Katherine Mitchell, MA <i>Mitochondrial Dysfunction In Neuropsychiatric Disorders</i></p>	<p>Current Status of Biomarkers for Mitochondrial Disease Devin Oglesbee, PhD <i>Mayo Clinic Rochester, MN</i></p>					
5:00p-5:30p	<p>NON CME - Abstract Presentation Short Talks Suraiya Haroon, PhD <i>Identification of Two Mitophagy Modulators that Rescue Mitochondrial Stress in a Heteroplasmic Single</i> <i>Large-scale mtDNA Deletion (SLSMD) C. elegans Animal Model</i></p> <p>Mikhail Alexeyev, PhD <i>TFAM's Contributions to mtDNA Replication and OXPHOS Biogenesis are Genetically Separable</i></p>						
5:30p-7:30p	<p>Break and Poster Sessions - Even Numbers Stay at Posters - NON CME</p>						

Thursday, June 29 **Speaker & Topic** **Speaker & Topic**

Platform Session 3 - Mitochondria/Viruses

8:00a-8:30a	<p>Mitochondrion and Immune System Wayne W. Hancock, MBBS, PhD, FRCPA <i>University of Pennsylvania Philadelphia, PA</i></p>	
8:30a-9:00a	<p>Viral Exposures in Primary Mitochondrial Disease (PMD) Patients Peter J. McGuire, MS, MD <i>National Human Genome Research Institute (NIHGRI) Bethesda, MD</i></p>	
9:00a-9:30a	<p>Mitochondrial Dysfunction Driven by Key microRNAs Contributing to Acute COVID-19 and Post-Acute Sequelae of COVID-19 (PASC) Afshin Beheshti, PhD <i>COVID-19 International Research Team (COV-IRT) Broad Institute of MIT and Harvard</i></p>	
9:30a-10:00a	<p>Coronaviruses: Intersection of Innate Immune and Unfolded Protein Responses Susan R. Weiss, PhD <i>University of Pennsylvania Philadelphia, PA</i></p>	
10:00a-10:30a	<p>Break</p>	

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10:30a-11:00a	Flaviviruses and Integrated Stress Response Sonja M. Best, PhD National Institute of Allergy and Infectious Diseases, NIH Bethesda, MD						
11:00a-11:30a	NON CME - Abstract Presentation Short Talks Amanda Fuchs, PhD Systemic Cytokine Storm Exacerbates Acute Influenza A Infection in Ndufs4 KO Mouse Yentli Soto Albrecht, MD, PhD candidate Non-pathogenic Variation in Mitochondrial DNA Modulates murine SARS-CoV-2 Aathogenesis	Mitochondrial Disease and the Viral Exposome Peter J. McGuire, MS, MD National Human Genome Research Institute (NIHGRI) Bethesda, MD					
11:30a-12:00p	NON CME - Abstract Presentation Short Talks Nicole DeFoor, BS Remdesivir Increases mtDNA Copy Number Causing Mild Alterations to Oxidative Phosphorylation Joseph Guarnieri, PhD Targeted Down Regulation Of Core Mitochondrial Genes During Sars-Cov-2 Infection	Through the Looking Glass: Viral Mimics and the Discovery of Novel Mitochondrial Functions Dustin C. Hancks, PhD UT Southwestern Medical Center Dallas, TX					
12:00p-12:30p	NON CME - Abstract Presentation Short Talks Hsin-Pin Lin/ Derek Narendra MD, PhD The OMA1-DELE1 Mitochondrial Integrated Stress Response is Activated by Diverse Mitochondrial Stressors to Promote Growth and Survival in Mitochondrial Myopathy Ryan Morrow, PhD Deficits in Mitochondrial Oxidative Phosphorylation Enhance SARS-CoV-2 Replication	Life and Death in Mitochondrial Disease: How Long Do We Have? Sumit Parikh, MD The Cleveland Clinic Foundation Cleveland, OH					
12:30p-2:00p	<i>Lunch</i>						
Platform Session 4 - Mitochondrial Signaling							
2:00p-2:30p	Mitochondrial and Cellular Metabolism Jared Rutter, PhD University of Utah Salt Lake City, UT						

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2:30p-3:00p	mtDNA Conformational Regulation Brett Kaufman, PhD University of Pittsburgh Pittsburgh, PA						
Thursday, June 29							
	Speaker & Topic	Speaker & Topic					
3:00p-3:30p	MNRR1 Bicompartamental Mito Regulation Lawrence L. Grossman, PhD Wayne State School of Medicine Detroit, MI		UMDF Kick-off for Patient Family Attendees • UMDF Updates and Friday Events - Brian T. Harman, UMDF President & CEO • What to Expect Friday-Saturday – Kara Strittmatter, Margaret Moore and Maria Johnson • Informational Booths to Check out - Nicole Wilson				
3:30p-4:00p	<i>Break</i>						
4:00p-4:30p	MAT (Mitochondrial Augmentation Therapy) and MEPAN (Mitochondrial Enoyl CoA Reductase Protein-Associated Neurodegeneration) Yair Anikster, MD, PhD Sheba Medical Center Hospital - Tel Hashomer Israel		UMDF Kick-off for Patient Family Attendees • UMDF Updates and Friday Events - Brian T. Harman, UMDF President & CEO • What to Expect Friday-Saturday – Kara Strittmatter, Margaret Moore and Maria Johnson • FUNdraising with Tania and the Team • Informational Booths to Check out - Nicole Wilson				
4:30p-5:00p	NON CME - Abstract Presentation Short Talks Jie Yang, PhD <i>DELE1 Oligomers Revealed by Cryo-EM Structure Promote the Integrated Stress Response Activation</i> Hemangi Bhonsle PhD <i>Neuron-specific CASK Loss in Mice Causes Epileptic Encephalopathy Associated with Impaired Cerebral Cortex Development and Mitochondrial Dysfunction</i>	Facilitating Community-Based Genomic Data Analysis in Primary Mitochondrial Disease: Mitochondrial Disease Sequence Data Resource (Mseqdr) and Mitoshare Patient Registry Collaboration to Support Genomic Data Discoveries Emily Bogush, MS, LCGC Children's Hospital of Philadelphia Racial Disparity in the Diagnosis of Mitochondrial Disease Daniel McGinn, GC Perelman School of Medicine of the University of Pennsylvania					
5:00p-5:30p	NON CME - Abstract Presentation Short Talks Natalie Niemi, PhD <i>The Mitochondrial Phosphatase Pptc7 Maintains Mitochondrial Protein Content by Suppressing Receptor-mediated Mitophagy</i> Nam Chul Kim, PhD <i>FDA-approved PDE4 Inhibitors Reduce the Dominant Toxicity of ALS-FTD-associated CHCHD10S59L in Drosophila and Human Cells</i>	Cardiac Manifestations Of Mitochondrial Disease: A Single Center Experience Divakar Mithal, MD, PhD Northwestern University Feinberg School of Medicine Mitochondrial Medicine Society (MMS) Updates					
			Mobile App Workshop for Attendees - Staff and Volunteers to Provide Mobile App Guidance				
							4p-6p Doc is In Registration Opens



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6:00p-8:00p	Poster Sessions - Odd Numbers Stay at Posters - Reception Note: Poster Sessions are NON CME		Symposium Mitochondrial Patient-Family Mixer				
Friday, June 30							
	Speaker & Topic	Speaker & Topic	Speaker & Topic	Speaker & Topic	Speaker & Topic	Speaker & Topic	
Platform Session 5 - Combined Sessions/Clinical Trial Updates - NON CME							
8:00a-10:00a	Combined Sessions for All Attendees - NON CME: UMDF Welcome and Mito Medicine Community UMDF Research Impact					9:15am-9:45am COVID & Safety Protocols	
8:00a-10:00a						9:15am-9:45am COVID & Safety Protocols	
10:00a-10:30a						Break	
10:30a-11:00a	Mitochondrial Myopathy Symptoms Over Time – Sharing New Natural History Data Zuela Zolkipli-Cunningham, MD, Children’s Hospital of Philadelphia, PA				LHON Welcome Session Maria Johnson and Jessica Loomer	11:00am to Noon Dance with Wendy	Doc Is In Slots - Schedule Available on Mobile App
11:00a-11:30a	Clinical Trial Updates - NON CME: More Trial Speakers To Be Announced Soon				Living with LHON Panel #1 Moderator: Maria Johnson Panelists: TBD		
11:30a-12:00p							
12:00p-12:30p							
12:30p-2:00p	Lunch - Networking by Geographic (for those interested in connecting with attendees in their regions)						
Platform Session 6 - Mito Genetic Therapy			Patient/Family Sessions are NON CME				
2:00p-2:30p	AAV nDNA Gene Therapy Alessia Angelin, PhD Children’s Hospital of Philadelphia Philadelphia, PA		Genetic Testing Landscape Speaker: Elizabeth McCormick, MS, CGC	Therapy Sessions Moderator/Speaker: Jennifer Poirier, DPT Speakers (see below)	LHON Science Moderator: Lissa Poincenot Speakers: Mays Dairi, MD and and Mark Tarnopolsky, MD, PhD, BPE	1:30pm to 2:30pm STEM Activity with Discovery Place	
2:30p-3:00p	Promises and Perils of mtDNA Gene Editing Carlos T. Moraes, PhD University of Miami Miami, FL		Disease Specific Breakout Sessions Leigh Syndrome - Mary Kay Koenig, MD, Amy Goldstein, MD			2:30pm to 3:30pm Music Therapy with Miriam Tart, MMT, MT-BC	



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3:00p-3:30p	mtDNA & Deaminases Stephen C. Ekker, PhD Mayo Clinic Rochester, MN		Pyruvate Dehydrogenase Complex Deficiency (PDCD) - Jirair K. Bedoyan, MD, PhD, FACMG, James Peterson, MS, LCGC, Peter Stacpoole, PhD, MD #OLG/CPEO/KSS - Zuela Zolkipli Cunningham, MD, Bruce Cohen, MD MELAS/Mito Myopathy - Fernando Scaglia, MD, Andrea Gropman, MD TK2D - Michio Hirano, MD	Speakers: Jenna Lowrey, OT Brenda Sorrells, Orthotist Kelvin Jones, Orthotist Scott Staley, ATP Cassandra Stolting, SLP Katie Parsons, OT Student	LHON Science Moderator: Lissa Poincenot Speakers: Mays Dairi, MD and Mark Tarnopolsky, MD, PhD, BPE	1:30pm to 2:30pm STEM Activity with Discovery Place 2:30pm to 3:30pm Music Therapy with Miriam Tart, MMT, MT-BC	Doc Is In Slots - Schedule Available on Mobile App
3:30p-4:00p	<i>Break</i>		<i>Break</i>				
4:00p-4:30p	Nuclear Transplantation Shoukhrat Mitalipov, PhD Oregon Health & Science University Portland, OR			Therapy Sessions continue with the addition of Jean Flickinger, PT, DPT PCS	LHON Community Update	3:30pm to 4:30pm Free Time	
4:30p-5:00p	NON CME - Abstract Presentation Short Talks Noa Sher, PhD <i>Characterization of Mitochondrial Augmentation at the Single Cell Level</i> Santiago Castillo <i>Unconstrained Mitochondrial Dna Base Editing For Disease Modeling And Gene Therapy Applications</i>						
5:00p-5:30p	NON CME - Abstract Presentation Short Talks Chenxu Li, MS/Marcia Terluk, PhD <i>Targeting Mitochondrial Metabolism using Nervonic Acid in Adrenoleukodystrophy</i> Stella Varnum, BS <i>Mitochondria Transfer Reduces the Morbidity and Mortality of Leigh Syndrome</i>		<i>Families to break to give time between sessions and banquet.</i>				
5:30p-9:30p	UMDF Evening of Energy Reception and Banquet Celebration for ALL Attendees The Big Pitch: UMDF accelerators Research Grant Program Presentations					6:30pm - Evening of Energy Banquet/Dance	



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Saturday, July 1	Speaker & Topic	Speaker & Topic	Speaker & Topic					
Platform Session 7 - Mito Transfer/Fatty Acid Synthesis			Patient/Family Sessions are NON CME					
8:00a-8:30a	Vesicular Transfer <i>Heidi McBride, PhD</i> Montreal Neurological Institute Quebec, Canada		Coffee and Conversation <i>The UMDF and our Ambassadors invite you to join us for casual networking time. We will have table signs set-up for family groups to assist in networking and sharing.</i>		Coffee and Conversation <i>Tentative tables set up for networking and conversation...</i>			
8:30a-9:00a	Nanotube Transfer <i>Shiladitya Sengupta, PhD</i> Harvard Medical School Cambridge, MA		Coffee and Conversation Continues <i>The UMDF and our Ambassadors invite you to join us for casual networking time. We will have table signs set-up for family groups to assist in networking and sharing.</i>		...with Metrolina Association for the Blind/Low Vision Optometrist, LHON DCP, and Resources/support for mental well-being and disabilities)			
9:00a-9:30a	Mitochondria Transfer and Leigh Syndrome <i>Jonathan R. Brestoff, MD, PhD, MPH</i> Washington University School of Medicine St. Louis, MO		NOTE: Two Special Coffee & Conversation Breakout Rooms Navigating a Dx - Moderator: Patricia Arnold, RN, UT Health, Houston, TX Leigh Syndrome - Meet the Researchers		The Top Five Questions I Get Asked About Assistive Technology Speaker: Sara Nappi		9:00am to 10:00am Healthy Mind and Body Speaker: Jamie Peterson, MS, LCGC	
9:30a-10:00a	Mitochondrial Transplantation: Clinical Application and Use <i>James D. McCully, PhD</i> Harvard Medical School Cambridge, MA		Coffee and Conversation Continues		The Top Five Questions I Get Asked About Assistive Technology Speaker: Sara Nappi		9:00am to 10:00am Healthy Mind and Body Speaker: Jamie Peterson, MS, LCGC	
10:00a-10:30a	<i>Break</i>		<i>Break</i>					10:00am to 11:00am Positive Mindset with Lu
10:30a-11:00a	mtFASII Pathway & Mouse Model <i>Deborah Murdock, PhD</i> Children's Hospital of Philadelphia Research Institute Philadelphia, PA		Family Planning Track • Reproductive Planning, Marni Falk, MD • Financial Planning, Hampton Hodge, Planning Associate		Ask the Mito Doc Panel Session Moderator: Margaret Moore Clinician Panelists - Austin Larson, MD, Eva Morava-Kozicz, MD, Jaya Ganesh, MD, Abdulrazak (Abdu) Alali, MD, Mary Kay Koenig, MD, Muge Gucsavas Calikoglu, MD, MPH, and Russell Saneto, DO, PhD		10:00am to 11:00am Positive Mindset with Lu	
11:00a-11:30a	Mito FASII in OXPHOS Biochemistry <i>Sara Nowinski, PhD</i> Van Andel Institute Grand Rapids, MI				Living with LHON Panel #2 Moderator: Jessica Knight Panelists: TBD		11:00am to 11:15am Break	
11:30a-12:00p	Small Molecule Therapeutics <i>Ethan Perlstein, PhD</i> Perlara PBC Berkeley, CA						11:30am to 12:30pm Yoga with Cristy	
							Doc Is In Slots - Schedule Available on Mobile App	



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12:00p-12:30p	<p>Non CME Abstract Presentation Kaylee Steiner, PhD <i>Mitochondrial Trans-2-Enoyl Coenzyme A Reductase (Mecr) Regulates CD4+ T Cell Function</i></p> <p>Closing Remarks <i>Douglas Wallace, PhD</i></p>		<p>Family Planning Track Continues</p> <ul style="list-style-type: none"> • <i>Housing Transitioning, Margaret Gaffney, Transition & Government Benefit Specialist</i> • <i>Grief - Loss of a Loved One, Brooke Yates, Kindermourn</i> 		<p>Positive Mindset for Life Speaker: Ludivine Tandazo</p> <p>LHON Group Photo at 12:45pm</p>	11:30am to 12:30pm Yoga with Cristy	Doc Is In Slots - Schedule Available on Mobile App
12:30p-2:00p	<p>12:30p-2:00p Lunch - Stay and Network or Grab n Go</p>		<p>12:45p-2:00p Lunch <i>Special Breakouts with morning speakers to Continue the Conversation will be available to all Patient-Family Attendees</i></p>				
<p>Saturday Patient Family Sessions Continue - Patient/Family Sessions are NON CME</p>							
2:00p-2:30p			<p>Family Planning Track Continues</p> <ul style="list-style-type: none"> • <i>Govt Programs (Medicaid waivers) - Jenny Hobbs and Stacy Taylor</i> • <i>Loss of Mobility, Lauren Falduti and Brooke Yates, Kindermourn</i> • <i>Positive Mindset for Parent/Caregivers, Ludivine Tandazo</i> 	<p>1:30pm to 2:30pm Are you Out of Breath? Speaker: Zarazuela Zolkipli Cunningham, MD</p>	<p>2:00pm to 3:00pm Navigating Employment with LHON Moderator: Jessica Loomer Panelists: TBD</p>	2:15pm-3:00pm Art Project	
2:30p-3:15p							
3:15p-3:30p			<p><i>Break</i></p>				
3:30p-4:30p			<p>Closing Session</p>		<p>LHON Closing Session Maria Johnson and Jessica Loomer</p>		
4:30p	<p>UMDF Mito Medicine Adjourns</p>						

