Nutritional Interventions in Primary Mitochondrial Disorders:

December 2-3, 2014 | Rockville, Maryland | Neuroscience Center Bldg.

Agenda

Workshop Goals: Explore the use of nutritional interventions, including dietary supplements, in primary mitochondrial disorders; identify gaps in knowledge; identify research opportunities; develop a research agenda to promote an evidence base for the use of nutritional interventions in primary mitochondrial disorders; and forge collaborations among researchers, clinicians, patient advocacy, and Federal partners.

DAY 1 — TUESDAY, DECEMBER 2

- 7:00 A.M. REGISTRATION
- 8:00 A.M. Welcome and Introductions James Anderson, M.D., Ph.D. — Division of Program Coordination, Planning, and Strategic Initiatives, National Institutes of Health (NIH) Paul Coates, Ph.D. — Office of Dietary Supplements (ODS), NIH Kathryn Camp, M.S., R.D., C.S.P. — ODS, NIH
- 8:20 A.M. Session 1. Setting the Stage Moderator: *Phil Yeske, Ph.D.* — United Mitochondrial Disease Foundation (UMDF)
- 8:30 A.M. Regulatory Definitions in the United States Andrew Mulberg, M.D. — U.S. Food and Drug Administration (FDA) Shawne Suggs-Anderson, M.S., R.D. — FDA
- 9:30 A.M. Global Efforts

Amy Goldstein, M.D. — Children's Hospital of Pittsburgh, Mitochondrial Medicine Society

- 10:00 A.M. Questions and Answers (Q&A)
- 10:10 A.M. BREAK
- 10:25 A.M. Session 2. Primary Mitochondrial Disorders (PMD) Moderator: Katrina Gwinn, M.D. — National Institute of Neurological Disorders and Stroke (NINDS), NIH
- **10:30 A.M. MtDNA-Related Disorders** *Michio Hirano, M.D.* — Columbia University
- **11:00 A.M.** Mendelian Mitochondrial Diseases Gregory Enns, M.D. — Stanford University
- 11:30 A.M. Genetics of PMD; Genotype/Phenotype Correlations Robert McFarland, M.A., M.B.B.S., Ph.D., M.R.C.P., M.R.C.P.C.H. — Newcastle University

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12:00 р.м.	Q&A
12:15 р.м.	LUNCH (ON YOUR OWN)
1:00 р.м.	Session 3. How Nutritional Interventions are Used in PMD Moderator: <i>Kathryn Camp, M.S., R.D., C.S.P.</i> — ODS, NIH
1:10 р.м.	Nutritional Interventions in PMD; Which Ones are Used and for What Purpose Bruce H. Cohen, M.D. — Akron Children's Hospital Kathryn Camp, M.S., R.D., C.S.P. — ODS, NIH
1:40 р.м.	Practice Patterns of Physicians in North America Sumit Parikh, M.D. — Cleveland Clinic
2:00 р.м.	North American Mitochondrial Disease Consortium Patient Survey on Dietary Supplement Use Amel Karaa, M.D. — Massachusetts General Hospital
2:20 р.м.	Q&A
2:30 p.m.	Вгеак
2:45 р.м.	Session 4. Challenges and Barriers to Dietary Supplement Use in PMD Moderator: <i>Gregory Enns, M.D.</i> — Stanford University
2:50 р.м.	Clinical Trials in Mitochondrial Disease—It is Not Your Father's Oldsmo

- 2:50 P.M. Clinical Trials in Mitochondrial Disease—It is Not Your Father's Oldsmobile: Endpoints, Biomarkers, and Other Barriers Bruce H. Cohen, M.D. — Akron Children's Hospital
- **3:30 P.M.** Scientific Evidence versus Clinical Practice Jerry Vockley, M.D., Ph.D. — University of Pittsburgh
- 4:00 P.M. Q&A

4:15 P.M. Session 5. Perspectives from Patient Advocacy, Industry, and Professional Organizations Panel Discussion: Moderator: *Rashmi Gopal-Srivastava, M.S, Ph.D.* — Office of Rare Diseases Research (ORDR), National Center for Advancing Translational Sciences (NCATS), NIH

Patient Advocacy

- Chuck Mohan UMDF
- Christine Cox, J.D. MitoAction

Industry

- Tricia Rutherford Vitaflo International Limited
- Steven Yannicelli, Ph.D., R.D. Nutricia North America

Professional Organizations

- Jerry Vockley, M.D., Ph.D. American College of Medical Genetics and Society for Inherited Metabolic Disorders
- Erin L. MacLeod, Ph.D., R.D., L.D. Genetic Metabolic Dietitians International
- 5:30 P.M. ADJOURN

DAY 2 — WEDNESDAY, DECEMBER 3

- 8:00 A.M. OPENING REMARKS
- 8:10 A.M. Session 6. New Technologies and Omic Approaches to Diagnosis, Treatment, and Understanding Mechanisms of Action Moderator: *Robert McFarland, M.A., M.B.B.S., Ph.D., M.R.C.P., M.R.C.P.C.H.* — Newcastle University
- 8:15 A.M. Integrating the Transcriptome, Metabolome, and Mitochondrial Physiome to Clarify Disease Mechanisms and Treatment Effects in Mitochondrial Respiratory Chain Disease Marni Falk, M.D. — University of Pennsylvania
- 8:45 A.M. Metabolic Profiling of Mitochondrial Disease Vamsi Mootha, M.D. — Massachusetts General Hospital
- 9:15 A.M. Evidenced-Based Approaches: High Throughput Mitofunctional Screening of Single Molecule and Herbal Supplements *Gino Cortopassi, Ph.D.* — University of California, Davis
- 9:45 A.M. The Gut Microbiome Metabolism of Carnitine and Implications for Mitochondrial Disorders Wilson Tang, M.D. — Cleveland Clinic
- 10:15 А.М. Q&A
- 10:30 A.M. BREAK
- **10:45 A.M.** Patient Product Safety: A Case Study Freddie Ann Hoffman, M.D. – Heterogeneity, LLC
- 11:15 A.M. Session 7. Research Opportunities and Resources Moderator: *Danuta Krotoski, Ph.D.* — *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD), NIH

Summary of March 2012 NIH Mitochondrial Meeting Danuta Krotoski, Ph.D. — NICHD, NIH

11:30 A.M. Development of Common Data Elements for Mitochondrial Disorders Joanne Odenkirchen, M.P.H. — NINDS, NIH

11:45 A.M. Outcome Measures Example: A New Approach: The EPI-743 Trial Lynne Wolfe, M.S., C.R.N.P. — National Human Genome Research Institute (NHGRI), NIH

12:00 P.M. Perspectives from Government, Patient Advocacy, Industry, Foundations Panel Discussion

U.S. Federal Government Andrew Mulberg, M.D. — FDA Katrina Gwinn, M.D. — NINDS, NIH

United Kingdom

Grainne Gorman, M.D. — Newcastle University

Patient Advocacy

Phil Yeske, Ph.D. --- UMDF

Industry

Matt Klein, M.D. — Edison

Foundation

Stephen Hersh, M.D. — The J. Willard and Alice S. Marriott Foundation

- 12:45 P.M. LUNCH (ON YOUR OWN)
- **1:30 P.M.** Session 8. Developing a Research Agenda Moderator: *Melissa Parisi, M.D., Ph.D.* — NICHD, NIH

All participants

- 2:45 P.M. Next Steps
- 3:00 P.M. ADJOURN