

**RARE DISEASES AND RARE CANCERS IN THE ERA OF SYSTEMS BIOLOGY SYMPOSIUM  
DAY 1-WEDNESDAY, OCTOBER 11, 2023**

**12:00PM**  
**WELCOME**

**Dr. Raul Urrutia**

Director, Mellowes Center for Genomic Sciences and Precision Medicine, WI

**Dr. Ugwuji Maduekwe**

Deputy Director, Advancing a Healthier Wisconsin, WI

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**12:15PM**  
**KEYNOTE**

**Dr. Pablo Lapunzina**

CIBERER, Madrid, Spain

*"Genomics for human diseases."*

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**1:30PM**  
**PANEL 1:**  
**PRECISION MEDICINE**  
**FOR RARE DISEASES &**  
**RARE CANCERS**

**Dr. Donald Basel**, Children's Wisconsin, WI

*"Undiagnosed and Rare Disease Program at Children's and the Medical College, WI."*

**Dr. William Gahl**, NHGRI, MD

*"The NIH Undiagnosed Diseases Program: Expansion to a National and International Network."*

**Dr. Brett Bordini**, Children's Wisconsin, WI

*"Attaining diagnostic excellence: how the structure and function of a rare disease service contribute to ending the diagnostic odyssey."*

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**3:45PM**  
**PANEL 2:**  
**MITOCHONDRIAL**  
**SYSTEMS**  
**DYSFUNCTIONS**

**Dr. Francesc Palau**, Sant Joan de Deu, Barcelona, Spain

*"The interaction between mitochondria and organelles in the pathophysiology of neurogenetic disease."*

**Dr. Janet Hoenicka**, Sant Joan de Deu, Barcelona, Spain

*"The mitochondria in the cellular pathophysiology of undiagnosed and rare diseases."*

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**5:15PM**  
**WELCOME RECEPTION**

MCW Health Research Center Atrium

Social: Appetizers and Cocktails

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**6:30PM**  
**RARE STORYTELLERS**  
**MEETS MILWAUKEE**

**Dr. Michael Lovell**, *Rare Storyteller*

President, Marquette University, WI

**Dr. John Charlson**, *Medical Guest*

Associate Professor, Dept. of Medicine, Division of Hematology and Oncology, Froedtert and MCW, WI

**Trapper Schoepp**, *Harmony4Hope, Musical Ambassador*

Milwaukee Artist, WI

**Steve Scaffidi**, *Moderator*

Radio Host for 620WTMJ, WI

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**RARE DISEASES AND RARE CANCERS IN THE ERA OF SYSTEMS BIOLOGY SYMPOSIUM  
DAY 2-THURSDAY, OCTOBER 12, 2023**

**8:00AM**  
**WELCOME DAY 2**

**Dr. Raul Urrutia**

Director, Mellowes Center for Genomic Sciences and Precision Medicine, WI

**Dr. Joseph Kerschner** Medical College of Wisconsin, WI

Provost and Executive Vice President, The Julia A. Uihlein, MA, Dean of the School of Medicine

**8:15AM**  
**PANEL 2 (Cont.):  
MITOCHONDRIAL  
SYSTEMS  
DYSFUNCTIONS**

**Dr. Stephen Ekker** Dell Medical School, Austin TX

*"Mitochondrial DNA Writing for Understanding Disease and Towards New Therapies."*

**9:00AM**  
**PANEL 3:  
INNOVATIVE  
TECHNOLOGY**

**Dr. Angela Mathison** Mellowes Center, WI

*"Using 'Omics to Investigate Mechanisms of Rare Diseases."*

**Dr. Brian F. Volkman**, MCW, WI

*"Using protein structure to understand and treat rare diseases."*

**10:30AM**  
**PANEL 4:  
IMMUNE SYSTEMS  
DYSFUNCTIONS**

**Dr. Roshini Abraham** Ohio State University Nationwide Children's, OH

*"Extending functional evaluation of Variants of Uncertain Significance (VUS) in the Inborn Errors of Immunity."*

**Dr. James Verbsky** Children's Wisconsin, WI

*"Immunogenetics: personalized medicine of the immune system."*

**Dr. Subramaniam Malarkannan** Versiti Blood Research Institute, WI

*"The GATA2-TGFbeta-TAL1 axis is central to human NK cell development."*

**12:30PM**  
**LUNCH**

MCW Health Research Center Atrium

Boxed Lunches

**1:30PM**  
**PANEL 5:  
SYSTEMS BIOLOGY**

**Dr. Michael T. Zimmermann** Mellowes Center, WI

*"Advancing Structural Bioinformatics with Systems Biology for Next-Gen Genomics Interpretation."*

**Dr. Raul Urrutia** Mellowes Center, WI

*"Systems Biology: From Atomic Resolution to Network Biology."*

**Dr. Eric W. Klee** Mayo Clinic, MN

*"Where do we go from here? Advancing the Field of Translational Research in Rare Disease."*

**Dr. Victor Jin** Institute of Health & Equity, WI

*"Omics approaches to interrogate epigenetic-regulated heterogeneity in endocrine resistant breast cancer."*

**Dr. Paldeep Atwal** Atwal Clinic, FL

Title: TBD