



## **DR. IAN MAX MØLLER**

### **Plant Mitochondria**

Plant cells respire just like animal cells and mitochondria in plant cells are the center for energy metabolism just as they are in animal cells. However, plant mitochondria have a number of unique features, which make their metabolism much more flexible as befits organisms that have to adjust to a rapidly changing environment. These features include a more complex electron transport chain, larger and more dynamic mtDNA, RNA editing, and a more dynamic proteome. Rapid changes in mitochondrial metabolism are regulated by post-translational enzyme modifications which in turn are governed by matrix redox conditions.

**Fall 2024 PSLA**

**LECTURE**

**SERIES**

**September 23, 2024**

**PLS Building RM  
2107/2109**

**Time:**

**12PM**

**UMD Zoom** (passcode:  
326994)

**Graduate student  
lunch w/ speaker**

**1PM**

**PLS 2107/2109**

Professor Møller is a leading authority on the subject of plant mitochondria and their role in cellular metabolism. His recent work funded by the National Science Foundation (U.S.A.) has focused on predictive modeling of subcellular protein localization. He has published more than 200 papers with more than 20,000 citations and is an author / co-author of four textbooks. Professor Møller received his M.Sc. in biochemistry from University of Copenhagen followed by a Ph.D. in plant biochemistry from Imperial College, University of London. He served as faculty at Lund University where he earned the rank of Professor. He moved to the Risø National Laboratory, and then to Roskilde and Royal Veterinary and Agricultural University in Copenhagen. He is a professor emeritus of Aarhus University, where he was formerly Head of the Department of Genetics and Biotechnology. Professor Møller is a Corresponding Member (International Fellow) of the American Society of Plant Biologists.