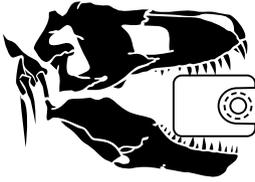


# 40 YEARS OF ENDOCYTOBIOLOGY



ISE   
International Society of Endocytobiology

September 10<sup>th</sup> to 14<sup>th</sup> 2023, Field Museum, Chicago

## Conference program

<b>Sunday, Sept 10th</b>		
<b>6:00 PM</b>		<b>Registration and welcome reception</b> <i>Location: Rice Hall (until 10 PM)</i>
<b>Monday, Sept 11th</b>		
8:00 AM		Doors open
	Chair: <i>Felix Grewe</i>	<b>Conference opening</b> <i>Location: Montgomery Ward Hall</i>
8:30 AM	Julian Siggers	Welcome address
8:40 AM	Peter Kroth	40 Years of Endocytobiology
	Chair: <i>Marion Eisenhut</i>	<b>Session 1</b> <i>Location: Montgomery Ward Hall</i>
8:45 AM	Anna Karnkowska	Opening lecture: Secondary plastids evolution or there and back again
9:15 AM	Erin Chille	Genotype dominates genome-wide transcriptomic response to stress in two Hawaiian coral species
9:30 AM	Daisuke Yamagishi	Differential responses to symbionts and non-symbionts by photosymbiotic amoeba
9:45 AM	Vladimir Hampl	Hydrogenotrophic methanogenesis is the key process in the obligately syntrophic consortium of <i>Pelomyxa schiedti</i>

10:00 AM	Andrew Roger	An anaerobic amoeba that harbours deltaproteobacterial symbionts in a symbiosome
<b>10:15 AM</b>		<b>Coffee break</b> <i>Location: Montgomery Ward Hall</i>
Chair:	<i>Sergio Muñoz-Gómez</i>	<b>Session 2</b> <i>Location: Montgomery Ward Hall</i>
11:00 AM	Daniel Sloan	Determinants of mutations rates and heteroplasmy levels in plant mitochondria and plastids
11:30 AM	Sven Gould	On the possible origin of the protist blueprint from a syncytial ancestor
11:45 AM	Parth K. Raval	Endosymbiotic organelles and the global greening
12:00 PM	Maria Lozano Quiles	The evolution of a machinery REcording a FRIENDLY endosymbiont volume
12:15 PM	Carolina Garcia Garcia	Dual targeting to endosymbiotic organelles: New or old?
<b>12:30 AM</b>		<b>Lunch break</b> <i>Location: Explorer Cafe</i>
Chair:	<i>Debashish Bhattacharya</i>	<b>Session 3</b> (Gordon and Betty Moore Foundation special symposium: endosymbionts to organelles) <i>Location: Montgomery Ward Hall</i>
2:00 PM	Eva Nowack	Organellogenesis events in progress - Lessons learned from protist endosymbioses
2:30 PM	Arthur Grossman	Green <i>Paulinella</i> ; from endosymbiont to organelle
3:00 PM	Sabeeha Merchant	View of algal lifestyles through genomics and systems biology
3:30 PM	Yixian Zheng	Analyses of endosymbiotic cells in the soft coral <i>Xenia</i> and <i>Hydra viridissima</i>

<b>4:00 PM</b>		<b>Coffee break</b> <i>Location: Montgomery Ward Hall</i>
Chair:	<i>Ugo Cenci</i>	<b>Session 4</b> <i>Location: Montgomery Ward Hall</i>
4:45 PM	Anay Kumar Maurya	Evolution of a host-derived endosymbiont division machinery in the trypanosomatid <i>Angomonas deanei</i>
5:00 PM	Jana Pilátová	Uncovering the process of purine biocrystallization in the spotlight of Raman microscopy
5:15 PM	Vijaya Geetha Gonepogu	Cellular response to varying nitrogen availability in <i>Chromera velia</i>
5:30 PM	Dorsaf Ennaceur	Candidate transport proteins for guanine in <i>Chromera velia</i>
5:45 PM	Brittany Sprecher	Investigating Dinoflagellate Native Green Fluorescence
<b>Tuesday, Sept 12th</b>		
Chair:	<i>Sven Gould</i>	
8:30 AM	Adrian Reyes-Prieto	What are the mechanisms underlying the disparate plastome architecture evolution in <i>Chlamydomonadales</i> after the loss of photosynthesis?
9:00 AM	Jeremy Wideman	Drifting Around: The evolution of organelle gene content
9:15 AM	Ugo Cenci	Forward genetic approach to decipher starch metabolism in <i>Chromera velia</i>
9:30 AM	Lea Fermont	Identification of Key Enzymes for Starch Synthesis in Chromerids and <i>Apicomplexa</i>
9:45 AM	Ayush Sharma	Agrobacterium-mediated Transformation of <i>Chromera velia</i>

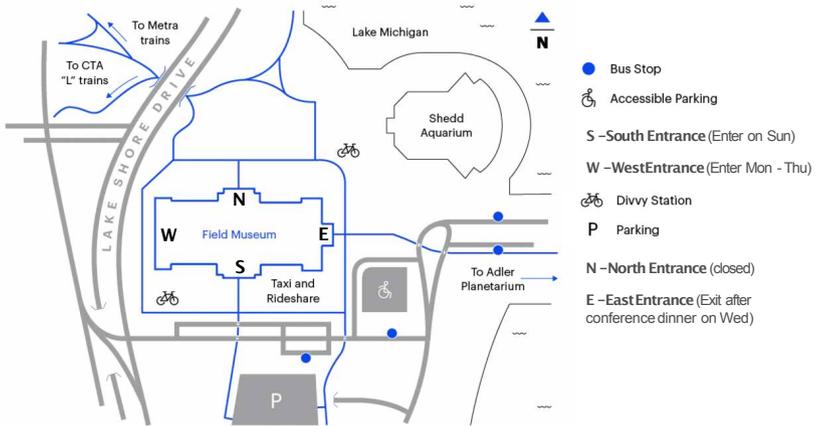
10:00 AM	Melissa Misir	Identification of the chloroplast CDJ5 proxime by proximity labeling with TurboID in <i>Chlamydomonas reinhardtii</i>
<b>10:15 AM</b>		<b>Coffee break</b> <i>Location: Montgomery Ward Hall</i>
Chair:	Felix Grewe	<b>Session 6</b> (Grainger Bioinformatics Center special symposium: diversity of symbioses) <i>Location: Montgomery Ward Hall</i>
11:00 AM	Irene Newton	Mi casa es su casa: how an intracellular symbiont manipulates host biology
11:30 AM	Luiz Felipe de Almeida Benites	Hot spring viruses associated with red algae microbial mats
12:00 PM	Debashish Bhattacharya	The role of coral algal symbionts in holobiont biology and evolution
<b>12:30 PM</b>		<b>Lunch break</b> <i>Location: Explorere Cafe</i>
12:45 PM		ISE members meeting <i>Location: GBC conference room</i>
Chair:	Felix Grewe	<b>Session 7</b> (Grainger Bioinformatics Center special symposium: diversity of symbioses) <i>Location: Montgomery Ward Hall</i>
2:00 PM	Sonia Cruz	<i>Sacoglossa</i> sea slugs: getting away with stolen chloroplasts
2:30 PM	Hwan Su Yoon	Revised classification of the Cyanidiophyceae
3:00 PM	John Burns	Green eggs, green bodies: Multiple interactions in a vertebrate-alga symbiosis

<b>3:30 PM</b>		<b>Coffee break, group picture and poster session</b> <i>Location: Lecture Hall 2</i>
Chair:	<i>Meredith Doellman</i>	<b>Session 8</b> <i>Location: Montgomery Ward Hall</i>
4:45 PM	Marion Eisenhut	Coevolution of UPF0016 manganese transporters and internalized oxygen-evolving complex
5:15 PM	Josephin Laskowski	How the small non-essential PsaJ subunit facilitates PSI assembly
5:30 PM	Dongseok Kim	Genomic analysis provides insight into phycobilisome evolution in <i>Porphyridium</i>
5:45 PM	Shun-Min Yang	Localization, evolution and regulation of heme biosynthesis in diatoms
<b>6:00 PM</b>		<b>Dinner</b> <i>Location: Explorer Cafe</i>
7:00 PM	Public panel discussion	Symbiosis in a changing world: lessons from dying corals <i>Location: James Simpson Theater</i>
<b>Wednesday, Sept 13th</b>		
Chair:	<i>Senjie Lin</i>	<b>Session 9</b> <i>Location: Montgomery Ward Hall</i>
8:30 AM	Jeff Mower	Recurrent cooption of cytochrome c maturation systems in plants and algae
9:00 AM	Julia Van Etten	Diverse fates of adaptive HGTs drive genome evolution in extremophilic red algae
9:15 AM	Shrinivas Nandi	A holo-proteome model of coral-algal dysbiosis

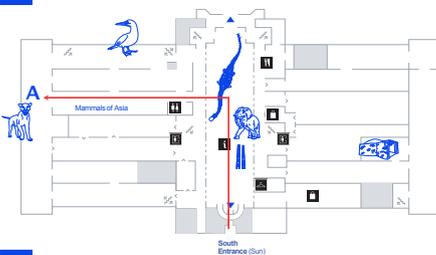
9:30 AM	Shahed Uddin Ahmed Shazib	The evolution of a purple-and-green photosymbiosis and further insights into the phylogeny of the ciliate genus <i>Pseudobleparisma</i>
9:45 AM	Hideaki Mizobata	The highly developed symbiotic system between the solar-powered nudibranch <i>Pteraeolidia semperi</i> and <i>Symbiodiniacean</i> algae
10:00 AM	Norico Yamada	Usability of the EGFP expression tool in kleptoplasty and endosymbiosis studies
<b>10:15 AM</b>		<b>Coffee break</b> <i>Location: Montgomery Ward Hall</i>
Chair:	<i>Andrew Roger</i>	<b>Session 10</b> <i>Location: Montgomery Ward Hall</i>
11:00 AM	Timothy Stephens	Exploring the origin and evolution of primary plastids using <i>Paulinella</i> as a model system
11:15 AM	Duckhyun Lhee	Investigating redox regulation in <i>Paulinella</i> plastids using redox proteomics
11:30 AM	Todd Widhelm	Metagenomic explorations of Madagascar's lichens: Understanding mycobiont and photobiont diversity and symbiont flexibility using metagenomic barcoding
11:45 AM	Meredith Doellman	Do we need sex? Insights into the consequences of losing sexual reproduction at the genomic level
12:00 PM	Imke Schmitt	Elevation is a driver of differentiation in the lichen symbiosis (Open Session: Ward Seminar FM)
<b>1:00 PM</b>		<b>Lunch</b> <i>Location: Outside (Food truck)</i>

<b>2:00 PM</b>		<b>Museum visit</b>
Chair:	<i>Peter Kroth</i>	<b>Session 11</b> (Miescher-Ishida prize) <i>Location: Montgomery Ward Hall</i>
5:00 PM	Ute Vothknecht	From Tocopherol to Protein Import to Endosymbiosis – a Scientific Life evolving around Chloroplasts
5:20 PM	Peter Kroth	Miescher-Ishida prize presentation
5:30 PM	Jürgen Soll	Chloroplasts development and differentiation
		Walk to East Atrium
<b>6:00 PM</b>		<b>Congress dinner</b> <i>Location: East Atrium (until midnight)</i>
<b>Thursday, Sept 14th</b>		
Chair:	<i>Ansgar Gruber</i>	<b>Session 12</b> <i>Location: Montgomery Ward Hall</i>
8:30 AM	Sally Mackenzie	Sensory plastid-mediated adaptive epigenetic reprogramming in plants
9:00 AM	Oren Ostersetzer-Biran	Plant mitochondria RNA metabolism as a key regulatory step in the biogenesis of the OXPHOS system
9:15 AM	Senjie Lin	Comparative metatranscriptomic analyses illuminate molecular basis of coral-dinoflagellate symbiosis and bleaching
9:30 AM	Martin Lohr	The evolution of algal carotenoid biosynthesis during the endosymbiotic spread of plastids
9:45 AM	Sergio Muñoz-Gómez	The cost of complexity in cell evolution
10:00 AM	Sergio López-Madrigal	Are Ankyrin-repeat proteins the Rosetta Stone for <i>Wolbachia</i> /host molecular crosstalk?

<b>10:15 AM</b>		<b>Coffee break</b> <i>Location: Montgomery Ward Hall</i>
Chair:	<i>Peter Kroth</i>	<b>Session 13</b> <i>Location: Montgomery Ward Hall</i>
11:00 AM	Yoshiharu Y. Yamamoto	Light modulation of the cold stress response in <i>Arabidopsis</i>
11:30 AM	Ralf Oelmüller	Cell wall integrity signaling
11:45 AM	Kwang Poo Chang	Experimental biology of trypanosome-endosymbiont and -parasite for tumor immunotherapy
12:00 PM	Peter Kroth	Announcements of price winners and concluding remarks, Farewell

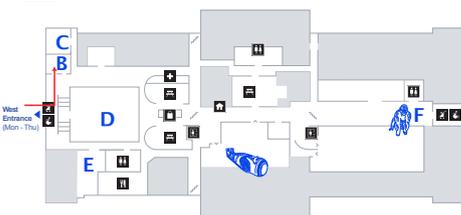


**M** Main Level



- A -Rice Hall**  
→ Welcome Reception
- B -Montgomery Ward Hall**  
→ Conference Presentations
- C -Lecture Hall 2**  
→ Poster Session
- D -James Simpson Theater**  
→ Panel Discussion
- E -Explorer Cafe Seating**  
→ Lunch
- F East Atrium**  
→ Conference Diner

**G** Ground Level



Please enter through the South Entrance on Sunday, September 10<sup>th</sup>, for the Welcome Reception. Enter the main Hall, and walk through the Mammals of Asia Exhibition to Rice Hall. Please enter through the West Entrance on September 11<sup>th</sup>-14<sup>th</sup>.