



Advances in research of plasmalogen metabolism

Plasmalogens are abundant members of ether-bonded phospholipids. They have a multistage evolutionary history and unique distribution across living organisms. Approximately 1 in 5 phospholipids are plasmalogens in human tissue where they are particularly enriched in brain, heart and immune cells. Various functional roles have been proposed including protection against oxidative damage as well as modulatory roles in lipid membrane structure and dynamics. However, more definitive explanations for their presence and detailed molecular functions have yet to emerge. In this **7to11@SLING forum** we will hear about and discuss recent advances in plasmalogen research which will likely reignite interest in this very special class of lipids:

“Life without air” *J Biol Chem* 2020 - PMID 32221031

“A bacterial light response reveals an orphan desaturase for human plasmalogen synthesis” *Science* 2019 - PMID 31604315

“The TMEM189 gene encodes plasmalogen desaturase ...” *Proc Natl Acad Sci* 2020 - PMID 32209662

“Lipidomics unveils lipid dyshomeostasis and low circulating plasmalogens...” *JCI Insight* 2019 - PMID 31341105

September 17 2020

New York	London	Singapore	Melbourne	
06:00	11:00	18:00	20:00	Breakout session (Student & Postdoc led)^ Kevin Huynh (Melbourne), Jacob Koch (Innsbruck)
07:00	12:00	19:00	21:00	Howard Goldfine (Philadelphia)
07:20	12:20	19:20	21:20	Montserrat Elías-Arnanz (Murcia)
07:40	12:40	19:40	21:40	Katrin Watschinger (Innsbruck)
08:00	13:00	20:00	22:00	Christine Des Rosiers/Matthieu Ruiz (Montreal)
08:20	13:20	20:20	22:20	Discussion: speakers, panelists, participants

Hosts: Amaury Cazenave Gassiot, Markus Wenk (Singapore)
^Sartaj Mir (Singapore)

Panelists: Valerian Kagan (Pittsburgh)
Peter Meikle (Melbourne)
Howard Riezman (Geneva)
Yu Xia (Beijing)

Additional information

Format: moderated using zoom

Participation: diverse engagement, connecting networks

Registration fee: US\$10

Sessions are recorded and offered as webcasts for 6 months at the same fee.

Co-hosting, partnership and sponsorship opportunities available upon request.