

Online seminars on "Iron-sulfur protein biogenesis" 2021/2



Organizers: Roland Lill, Philipps-Universität Marburg; Frederic Barras, Institute Pasteur, Paris

Time: Thursdays at 5 pm (CET; Paris), 11 am (EST; Boston), 8 am (PST; Los Angeles).

Format: Two speakers per date; each with a 30 min talk + 10 min discussion.

This seminar series is a continuation of the well-received events during the first half of 2021. We are confident of continued interest and look forward to interesting talks and discussions.

Online meeting link:

https://uni-marburg.webex.com/uni-marburg/j.php?MTID=mc93b643a890d1e8f9884c1158720441b

Website: https://www.uni-marburg.de/en/fb20/departments/cyto/copy_of_bilder/bilder-lill/fes-test

Programme

March 24, Chair: Caroline Philpott		
Siavash Kurdistani, UCLA	The histone H3 enzyme activity as a novel factor in iron-sulfur cluster homeostasis	
Carsten Berndt, Düsseldorf	Structure and function of FeS-coordinating redoxins	
April 14, Chair: Beatrice Py		
Limei Zhang, Lincoln, NE	Structural basis for transcriptional regulation by WhiB-like proteins in Mycobacteria	
Paul Lindahl, A&M Texas	Iron Trafficking and Regulation in Saccharomyces cerevisiae	
May 12, Chair: Jeff Boyd		
Yilin Hu, Irvine CA	Nitrogenase cofactor: From assembly to catalysis	
Joey Braymer, U Marburg	[2Fe-2S] protein maturation in the cytosol of eukaryotes	

May 19, Chair: Nicolas Rouhier

Francesca Camponeschi Florence	Insights into the function of human GLRX3 in the maturation of cytosolic Fe-S proteins
Andrew Dancis, Philadelphia	Biochemical reconstitution of Leu1 Fe/S cluster protein activity in the cytoplasm requires mitochondria

Previous talks September 23, Chair: Frederic Barras Caryn Outten, USC Life Without Glutathione: Bypassing the Essential Function of GSH in yeast FeS Cluster Biogenesis Caroline Philpott, NIH Iron chaperones and the delivery of iron for [2Fe-2S] assembly

October 28, Chair: Roland Lill		
Deborah Perlstein , Boston &	In vivo and in vitro recognition of C-termini of cytosolic and nuclear	
Antonio Pierik , Kaiserslautern	iron-sulfur proteins by the CIA targeting complex	
Simone Ciofi , Florence	Unraveling the mechanism of maturation of human mitochondrial [4Fe-4S] proteins	
November 18, Chair: Patricia ł	Kiley	
Benoit D'Autréaux Gif-sur-Yvette	The roles of frataxins in FeS cluster assembly on the evolutionary point of view	
Sandrine Ollagnier , Grenoble	<i>E. coli</i> SUF machinery: the mysterious nature of SufBC2D FeS center	
December 16, Chair: Helene Puccio		
Nunziata Maio , NIH	Newly identified iron-sulfur cofactors in the RNA-dependent RNA polymerase of SARS-CoV-2 are potential anti-viral targets	
Dennis R. Dean , V Tech	Specificity of assembly and trafficking of the complex nitrogenase iron- sulfur cofactors	
January 20, Chair: Nick LeBrun		
Eranthie Weerapana Boston College	Monitoring iron-sulfur cluster occupancy using chemoproteomics	
Jaroslaw Marszalek & Rafal Dutkiewicz , Gdansk	Protein-protein interactions critical for the assembly and function of complexes involved in the ISC pathway of FeS cluster biogenesis.	
	complexes involved in the loo pathway of red cluster biogenesis.	
February 24, Chair: David Bar	ondeau	
David Britt , UC Davis	A proposed mechanism for the biosynthesis of the H-cluster of [Fe-Fe] hydrogenase	
Wayne Outten , USC	Interactions driving FeS cluster biogenesis by the Suf system in <i>E. coli</i>	