

Preliminary program of the ProSynFest2022 Workshop and Conference

Cordoba (Spain), March 16-19, 2022

Date	Time	Event or Course	
Wednesday March 16th WORKSHOP	8:30-9:00	Registration of workshop attendants / Welcome tea, coffee, ...	
	<i>Parallel sessions</i>	<i>Laboratory track</i>	<i>Computational track</i>
	9:00-11:00	Culturing picocyanobacteria Organizer: Allison Coe Contributors: Lisa Moore (To be confirmed), John Waterbury	Rekha Seshadri: "Comparative Genomics for Gene Discovery using Integrated Microbial Genomes (IMG)"
	11:00-11:30	Coffee break	
	11:30-13:00	Marine Cyanophages Organizer: Debbie Lindell T Contributors: Dror Shirtrit	Bonnie Hurwitz: "Planet Microbe: a Cyberinfrastructure for marine sciences and analytics" (To be confirmed)
	13:00-14:00	Lunch	
	14:00-15:30	Genetics in Cyanobacteria Organizer: David Kehoe Contributors: David Lea-Smith, Raphael Laurenceau	Peter Karp: The BioC Database Collection
	15:30-16:00	Coffee break	
	16:00-17:00	Genetics in Cyanobacteria (cont'd)	Frédéric Partensky: Cyanorak v2, a scalable information system for the visualization and expert curation of picocyanobacteria genome
	17:00-18:00	Vesicles and Lipids Organizer: Steven Biller Contributors: María del Carmen Muñoz-Marín	E. Virginia Armbrust: CMAP, an open-source data service to retrieve, visualize, and analyze oceanic datasets
	17:30-19:00	Welcome of other participants of the conference / Drinks + appetizers - Caballerizas Reales	
	Evening	Dinner in town (attendees on their own)	

	Time	Event	Speakers/Organizers
Thursday March 17 th CONFERENCE DAY 1	8:00-8:30	registration of the remaining participants / coffee	Organizers: Conference center staff/organizing committee with help from granted students
	8:30-9:00	Inauguration of the conference : welcome addresses from organizers and local representatives	
	9:00-9:50	Keynote speech : <i>Prochlorococcus</i> : Then and now	Keynote speaker: Sallie W. (Penny) Chisholm
	Session 1: Ecology, distribution and dynamics: past, present and future. Chairs: A.C. Martiny (morning) / L.R. Moore (afternoon)		
	9:50-10:15	S1-invited talk 1: Seasons of <i>Syn</i> : insights into the annual patterns of a coastal <i>Synechococcus</i> population from <i>in-situ</i> flow cytometry	Invited speaker: Kristen Hunter-Cevera
	10:15-10:40	S1-invited talk 2: Faster growth of the major prokaryotic versus eukaryotic CO ₂ fixers in the oligotrophic ocean	Invited speaker: Mikhail Zubkov
	10:40-10:55	S1-short talk 1:	
	10:55-11:15	Coffee break	Organizers: Conference center staff
	11:15-11:40	S1-invited talk 3 How does leachate from plastic pollution affect marine primary producers?	Invited speaker: Lisa R. Moore (To be confirmed)
	11:40-11:55	S1-short talk 2:	
	11:55-12:10	S1-short talk 3:	
	12:10-12:25	S1-short talk 4:	
	12:25-12:40	S1-short talk 5:	
	12:40-12:55	S1-short talk 6:	
	13:00-14:00	Lunch in conference center	Organizers: Conference center staff
	14:00-14:25	S1-invited talk 4: Diversity and adaptation of <i>Synechococcus</i> in estuarine waters	Invited speaker: Liu Hongbin
	14:25-14:50	S1-invited talk 5: Exploring the diverse functional attributes of marine cyanobacteria in natural populations	Invited speaker: Mak Saito
	14:50-15:15	S1-invited talk 6: A short story of the diversity and activity of cyanobacteria in the global ocean	Invited speaker: Zackary Johnson
	15:15-15:40	S1-invited talk 7: Understanding ocean biogeochemical cycles through the lens of <i>Prochlorococcus</i> and <i>Synechococcus</i>	Invited speaker: Adam C. Martiny
	15:40-16:00	Coffee break	Organizers: Conference center staff
	16:00-16:25	S1-invited talk 8: Comparative and ecological genomics of marine picocyanobacteria	Invited speaker: Laurence Garczarek
	16:25-16:50	S1-invited talk 9: Using computer models and theory to infer controlling mechanisms of <i>Prochlorococcus</i> and <i>Synechococcus</i> global distributions	Invited speaker: Stephanie Dutkiewicz
	16:50-17:05	S1-short talk 7:	
17:05-17:20	S1-short talk 8:		
17:20-17:35	S1-short talk 9:		
17:35-17:50	S1-short talk 10:		

Thursday March 17th CONFERENCE DAY 1 (cont'd)	17:50-20:00	1st Poster session (starting with 1-min flash talks by poster presenters set#1)	All attendees
	20:00-21:00	Banquet	Organizers: Conference center staff
Friday March 18th CONFERENCE DAY 2	9:00-9:50:	Keynote speech 2 : Four decades of research on marine <i>Synechococcus</i> : a globally important phototroph	Keynote speaker: David J. Scanlan
	Session 2: Physiology, gene regulation and metabolism. Chairs: P. Berube (morning) / S. Duhamel (afternoon)		
	9:50-10:15	S2-invited talk 10: Ecophysiology of marine picocyanobacteria, one cell at a time	Invited speaker: Solange Duhamel
	10:15-10:40	S2-invited talk 11: Diversity and evolution of phycobilisomes in picocyanobacteria	Invited speaker: Frédéric Partensky
	10:40-11:00	Coffee break	
	11:00-11:25	S2-invited talk 12: Chromatic Acclimation in <i>Synechococcus</i> : Mechanisms and regulation	Invited speaker: David M. Kehoe
	11:25-11:40	S2-short talk 11:	
	11:40-11:55	S2-short talk 12:	
	11:55-12:10	S2-short talk 13:	
	12:10-12:35	S2-invited talk 13: Gene regulation with non-coding RNAs in <i>Prochlorococcus</i>	Invited speaker: Claudia Steglich
	12:35-13:00	S2-invited talk 14: Feeling Blue? Feeling Low? <i>Prochlorococcus</i> , light & oxygen	Invited speaker: Douglas Campbell
	13:00-14:00	Lunch in conference center	Organizers: Conference center staff
	14:00-14:25	S2-invited talk 15: Data driven models of <i>Prochlorococcus</i> and <i>Synechococcus</i> abundance distributions	Invited speaker: E. Virginia Armbrust
	14:25-14:50	S2-invited talk 16: From glutamine synthetase to glucose uptake: 25 years working on N and C metabolism in marine picocyanobacteria	Invited speaker: José M. García-Fernández
	Afternoon	Free time or commented visit of the Mosque (16:00-17:00)	Organizers: Conference center staff
Evening	Dinner in town	Attendees on their own	

	9:00-9:25	S2 (cont'd)- invited talk 17: Indigenous <i>Prochlorococcus</i> from oxygen-depleted oceanic waters	Invited speaker: Osvaldo Ulloa
	9:25-9:50	S2-invited talk 18: Emerging complexity of N cycling in <i>Prochlorococcus</i> populations	Invited speaker: Paul M. Berube
	9:50-10:15	S2-invited talk 19: Identifying the role of transport in open ocean cyanobacterial symbionts by expression in model heterologous systems	Invited speaker: Rachel Foster
	10:15-10:30	S2-short talk 14:	
	10:30-10:45	S2-short talk 15:	

Saturday March 19 st CONFERENCE DAY 3	10:45-11:00	S2-short talk 16:	
	11:00-11:20	Coffee break	Organizers: Conference center staff
	Session 3: Predation and trophic interactions. Chairs: E. Zinser (morning) / D. Lindell (afternoon) / S.J. Biller (after roundtables)		
	11:20-11:45	S3-invited talk 20: Cyanobacteria-cyanophage interactions	Invited speaker: Debbie Lindell
	11:45-12:00	S3-short talk 17:	
	12:00-12:15	S3-short talk 18:	
	12:15-12:30	S3-short talk 19:	
	12:30-12:45	S3-short talk 20:	
	12:45-13:00	S3-short talk 21:	
	13:00-14:00	Lunch in conference center	Organizers: Conference center staff
	14:00-14:25	S3-invited talk 21: <i>Prochlorococcus</i> and <i>Synechococcus</i> : Friends, enemies, frenemies?	Invited speaker: Erik Zinser
	14:25-14:50	S3-invited talk 22: Cyanobacterial extracellular vesicles: origins, contents, and community interactions	Invited speaker: Steven J. Biller
	14:50-15:05	S3-short talk 22:	
	15:05-15:20	S3-short talk 23:	
	15:20-15:35	S3-short talk 24:	
15:35-16:00	Coffee break	Organizers: Conference center staff	
16:00-17:00	<p>2nd Poster session (starting with 1-min flash talks by poster presenters set#2) + 3 parallel roundtables:</p> <ul style="list-style-type: none"> - R1: Phylogenomics and species/genus concept: Co-chairs: F. Partensky, F. Thompson, S. Biller & M. Ostrowski - R2: New flow technologies for analyzing picocyanos: Co-chairs: F. Ribalet, G. van den Engh, K. Hunter-Cevera & A. Thompson - R3: Exploiting the wealth of metagenomics data: Co-chairs: D. Scanlan, O. Béjà, L. Garczarek & A. Martiny 	Attendees circulate among the 4 parallel events	
17:00-17:25	S3-invited talk 23: Experimental evolution of a simple <i>Prochlorococcus</i> community	Invited speaker: Jeffrey Morris	
17:25-17:50	S3-invited talk 24: Oceanic viral 'photosynthesis'	Invited speaker: Oded Béjà	
17:50-18:40	Keynote speech 3: Cyanobacteria in symbiosis: learning from new models	Keynote speaker: Jonathan P. (Jon) Zehr	
18:40-19:00	Wrap up, general discussion and concluding remarks	Z. Johnson, J. Garcia-Fernandez, F. Partensky & S.W. Chisholm	
19:00	End of conference Dinner in town	Attendees on their own	
Saturday March 19 st CONFERENCE DAY 3 (cont'd)			