

International School on Biological Crystallization

Granada (SPAIN), May 18 - 22, 2009

Laboratorio de Estudios Cristalográficos, IACT, CSIC-UGRA

Sunday, May 17

17:00 – 20:00	Registration
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Monday, May 18 FROM SOLUTION TO PROTEIN CRYSTALS

08:00 – 09:00	Registration	
09:00 – 09:15	Overall view of the School	J.M. García-Ruiz
09:15 – 09:45	Preparation of protein solutions	P. Rezacova
09:45 – 10:30	Strategies for purification of protein complexes	E. Pineda
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Light scattering of protein solutions	C. Betzel
11:30 – 12:15	Nucleation of protein crystals	P. Vekilov
12:15 – 13:00	Crystal growth mechanism	J.M. Garcia-Ruiz
13:15 – 15:00	Lunch	
15:00 – 15:45	Promoting crystallization by increasing and enhancing intermolecular interactions	A. McPherson
15:45 – 16:30	Crystal growth techniques: Vapor diffusion, Microbatch under oil, Counterdiffusion	The ISBC <i>ensemble</i> A. McPherson, J.D. Ng, J. Mesters, J.A. Gavira
16:30 – 17:00	Coffee Break	
17:00 – 17:45	Handling of protein crystals	J.A. Gavira
17:45	Poster Session	

Tuesday, May 19 LARGE CRYSTALS, COMPLEXES AND MEMBRANE PROTEIN

09:00 – 09:30	Crystallization phenomena in drops and capillaries	J. M. Garcia-Ruiz
09:30 – 10:00	On the use of seeding technique	J. Mesters
10:00 – 10:30	The growth of large crystals for neutron diffraction: Thermal control	M. Budayova-Spano
10:30 – 11:00	Coffee Break	
11:00 – 11:30	The growth of large crystals for neutron diffraction: Counterdiffusion method	J.D. Ng
11:30 – 12:15	Crystallization of membrane proteins using Fab/Fv	C. Hunte
12:15 – 13:00	Crystallization of membrane proteins in lipidic mesophases	M. Caffrey
13:15 – 15:00	Lunch	
15:00 – 15:45	Crystallization of membrane proteins using CLP & bicelles	H. Luecke
15:45 – 16:30	Crystallization of a chromatin factor-nucleosome multicomponent protein/DNA complex	S. Tan
16:30 – 17:00	Coffee Break	

17:00 – 17:45	EM analysis of large protein complexes	C. Tornero
17:45	Poster Session	

Wednesday, May 20 DEMONSTRATION FAIR

09:00 – 10:30	Practical demonstration “ <i>a la carte</i> ”	
10:30 – 11:00	Coffee Break	
11:00 – 13:00	Practical demonstration “ <i>a la carte</i> ”	
13:15 – 15:00	Lunch	
15:00 – 14:30	Practical demonstration “ <i>a la carte</i> ”	
16:30 – 17:00	Coffee Break	
17:00 – 17:45	Practical demonstration “ <i>a la carte</i> ”	
22:00	Night Visit to the ALHAMBRA	

Thursday, May 21 BIOMINERALIZATION

09:00 – 09:45	Fundamentals of biomineralization	J.A. Arias
09:45 – 10:30	The formation of the eggshell	Y. Nys
10:30 – 11:00	Coffee Break	
11:00 – 11:30	The textural analysis of biomineral structures	A. Rodriguez Navarro
11:30 – 12:15	Biomimetic materials synthesis inspired by studies on enamel and nacre	G. Fallini
12:15 – 13:00	Mineral-Protein interaction	J. Gomez
13:15 – 15:00	Lunch	
15:00 – 15:45	Biomorph: Self-assembly of hierarchical crystal aggregates of carbonates	J.M. Garcia-Ruiz
15:45 – 16:30	Publishing your crystallization results	H. Einspahr
16:30 – 17:00	Coffee Break	
17:00 – 17:45	Poster Session	
20:00	FLAMENCO Party	

Friday, May 22 PROTEIN CRYSTALLIZATION BEYOND STRUCTURAL BIOLOGY

09:30 – 10:30	Sickle cell anemia and polymerization of hemoglobin S	P. Vekilov
10:30 – 11:00	Coffee Break	
11:00 – 11:45	Protein crystallization in large scale	K. Visuri
11:45 – 13:00	Round Table	
13:15 – 15:00	Lunch	
15:00 – 15:45	Prizes for Posters and Closing	