Sunday, May 21st

WELCOME
18:00 – 20:00 Registration (Abades Nevada Palace Hotel)

20:00 Welcome Cocktail (Abades Nevada Palace Hotel)

Monday, May 22nd

FROM SOLUTION TO PROTEIN CRYSTALS

08:00 – 09:00 Registration (Abades Nevada Palace Hotel)

09:00 – 09:15 Overview of the School
J.A.G. & J.M.G-R

09:15 – 10:00 Protein purification strategies intended for crystallization
S. Martínez-R

10:00 – 10:30 Coffee break and Poster Session

10:30 – 11:15 From protein solution to crystals: Nature and formation of protein crystals
B. Rupp

11:15 – 12:00 Preparation of protein samples for crystallization experiments
P. Řezáčová

12:00 – 12:45 Nucleation of Macromolecular Crystals
J.M. García-Ruiz

12:45 – 13:30 Analyzing, Scoring and Optimizing Crystallization Conditions
C. Betzel

13:30 – 15:00 Lunch

15:00 – 15:45 Dialysis, crystallization and the Hofmeister series
J. Mesters

15:45 – 16:30 Protein Crystallization by capillary Counter-diffusion technique
J.A. Gavira

16:30 – 17:15 Unpacking how to grow protein crystals
J. Newman

17:15 – 18:00 Seeds of success: An overview of the Microseed Matrix Screening technique
M. Marsh

18:00 – 19:00 Coffee break and Poster Session
Tuesday, May 23rd

TINY & LARGE CRYSTALS, MEMBRANE PROTEINS, COMPLEXES, SAXS, CryoEM...

09:00 – 09:30  A guide to choosing your method for crystallization  
_L. Govada_

09:30 – 10:00  Microfluidics in action: crystallization and crystallography in microchips  
_C. Sauter_

10:00 – 10:30  Trace fluorescent Labeling and Low-Cost Imaging of Protein Crystals  
_C. Tarver_

10:30 – 11:00  Coffee break and Poster Session

11:00 – 12:00  Femtosecond Crystallography, a New Era in Structural Biology  
_P. Fromme_

12:00 – 12:45  Crystallization of Membrane Proteins in Lipid Mesophases  
_M. Caffrey_

_H. Luecke_

13:30 – 15:00  Lunch

15:00 – 15:45  Screening Data Analysis and Crystallization Condition Prediction  
_M. Pusey_

15:45 – 16:30  Best practices to prepare and deliver samples in serial femtosecond crystallography experiments at XFELs  
_J.M. Martin-G._

16:30 – 17:15  Crystallization of Protein-Nucleic Acid Complexes  
_C. Biertümpfel_

17:15 – 18:00  AlphaFold and biochemical considerations for protein crystallization  
_J.D. Ng_

18:00 – 19:00  Coffee break and Poster Session

22:00  Night guide walk of Albaicín & Sacromonte
Wednesday, May 24th

TINY & LARGE CRYSTALS, MEMBRANE PROTEINS, COMPLEXES, SAXS, CryoEM...

09:00 – 09:30 Differences in crystallization of various haloalkane dehalogenases
   I.K. Smatanova

09:30 – 10:00 Optimisation of Crystal Growth for Neutron MX
   M. Budayova-Spano

10:00 – 10:30 Protein crystallization in micro- and meso-scale devices
   F. Castro

10:30 – 11:00 Coffee break and Poster Session

11:00 – 11:45 Intracellular protein crystallization
   L. Redecke

11:45 – 12:30 Molecular movies of enzyme catalysis
   G. Calero

12:30 – 13:30 Small Angle Solution Scattering as a complementary technique in structural biology studies.
   E. Snell

13:30 – 15:00 Lunch

15:00 – 15:45 Cryo-Electron tomography – method to bridge scales in biological system
   N. Mizuno

15:45 – 16:30 Introduction to single particle cryoEM
   E. Cunha

16:30 – 17:15 How do we get fragments or ligands into structures?
   T. Peat

17:15 – 18:00 Microcrystal electron diffraction: methods and applications
   B. Nannenga

18:00 – 19:00 Coffee break and Poster Session
Thursday, May 25th

DEMONSTRATION FAIR

09:00 – 10:30 Practical Demonstration “a la carte”

10:30 – 11:00 Coffee Break

11:00 – 13:30 Practical Demonstration “a la carte”

13:30 – 15:00 Lunch

15:00 – 16:30 Practical Demonstration “a la carte”

17:00 – 17:45 Practical Demonstration “a la carte”

20:00 Gala Dinner (Carmen de la Victoria)

Friday, May 26th

CLOSING LECTURES & STUDENTS PRESENTATIONS

09:30 – 10:15 The Chemistry of Mushroom Magic (Why you should not lick toads.)

B. Rupp

10:15 – 11:00 Round Table: Teaching Crystallography

11:00 – 11:30 Coffee Break

11:30 – 12:30 Oral Presentation of finalist posters

12:30 – 13:30 Poster Prizes and Closing of the School

13:30 – 15:00 Lunch