



CRYSPFORMA

TRAINING & WORKSHOPS



Av. Països Catalans 16
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1st PHARMACEUTICAL SOLID STATE DEVELOPMENT Workshop

- **Polymorphs,
Salts & Co-crystals**
- **Crystallization &
Characterization**

In this problem-oriented workshop, Crysforma's researchers put their expertise to the benefit of industry: discussion of practical cases, in-depth analysis of results from several characterization techniques and a guided tour of ICIQ's instrumentation facilities will give you a useful insight into pharmaceutical solid state development.

THIS WORKSHOP IS DIRECTED TO:

R&D managers, analytical laboratory managers, project managers, R&D chemists, process development managers, formulation development managers, project technicians and anyone interested in solid state development and characterization.

9th of November of 2011, 9h – 18h
Institute of Chemical Research of
Catalonia (ICIQ), Tarragona

THE WORKSHOP WILL COVER:

- **Solid state development** and its importance in the pharmaceutical industry.
- **Polymorphism:** Definitions and examples, obtention of polymorphs.
- **Salts and co-crystals:** Strategy, counterion and co-crystal former selection.
- **Crystallization:** Nucleation, solubility curves, thermodynamic vs kinetic crystallization.
- **Solid state characterization:**
 - X-ray diffraction, thermal analysis, spectroscopy and other techniques.
 - Polymorph quantification and limit of detection.
 - Amorphous material quantification.
- **Crystallization screening:** Objectives and procedure according to its type (polymorph, salt and co-crystal).





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Since 2005, Cryforma has provided complete scientific support for the discovery, analysis and scale-up of polymorphs, hydrates, amorphous phases, salts and co-crystals of active pharmaceutical ingredients or intermediates and has developed its own crystallization screening methodology based on the combination of several crystallization procedures. Cryforma is a technology development unit belonging to the Institute of Chemical Research of Catalonia (ICIQ). As such, we have access to the state-of-the-art scientific facilities of the institute.

The workshop sessions will be delivered by Cryforma's scientific advisors and researchers, working on solid state problems on a daily basis.



Dr Jordi Cerón

PhD in Chemistry (University of Bremen, 2002). After 2 years of postdoctoral stage at the University of California, Davis, he joined ICIQ in 2006 as a co-worker of Cryforma. Since 2009, Jordi is the Unit Manager.



Dr Lluís Solà

PhD in Chemistry (University of Barcelona, 1998). In 2004 he joined ICIQ where he currently is the Strategic Area Manager, leaving his position as Head of the Fine Chemistry Unit in the Scientific Park of Barcelona. From 2005 he has been involved in the creation, management and development of Cryforma. Since 2009, he supports Cryforma's projects in his role as Scientific Advisor.



Dr Jordi Benet-Buchholz

PhD in Chemistry (University of Essen, 1998). In 2004, after 6 years at BAYER AG (Leverkusen) as Head of the Crystallography Laboratory, he joined ICIQ as X-Ray Diffraction Unit Manager. From 2005 he has been involved in the creation, management and development of Cryforma. Since 2009, he supports Cryforma's projects in his role as Scientific Advisor.



INSCRIPTION FEES:

Before 1st of October: 475 +VAT

From the 1st of October: 600 + VAT

REGISTRATION INCLUDES:

Attendance to the sessions, a booklet with all the presentations, lunch and coffee breaks.