



# Séminaire externe



## From crystals to drugs : methodology and applications of macromolecular crystallogenesis.



**X**-ray crystallography is to date the most powerful method for determining the 3-dimensional structures of proteins, nucleic acids and their complexes, often up to atomic resolution. Diffracting high-quality crystals are a prerequisite to using the method and the growth of such crystals is the most intractable step in structural biology. In this talk, some recent theoretical and methodological advances in macromolecular crystallogenesis will be presented, and their application to an extensive project involving the structures of antigen precursor-trimming enzymes and of their complexes with potential immunotherapeutic and anti-autoimmune drugs will be discussed. Finally, I will discuss the problems that we are trying to overcome in the framework of my Fellowship at the AMV Team of the CBM, regarding the crystallisation and structure determination of the transcription termination factor Rho of *Mycobacterium tuberculosis*.

### Dr Emmanuel SARIDAKIS

LE STUDIUM Research Fellow from  
Institute of Nanoscience and Nanotechnology  
National Centre for Scientific Research "DEMOKRITOS"  
Greece

in residence at CBM  
Marc Boudvillain Team

**Vendredi 28 avril 2017 à 11h00**  
Salle de conférence du CBM