

# Inserm Workshop 271

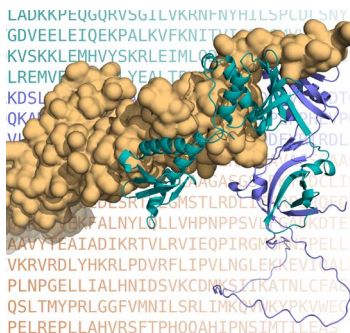
## Using machine learning for protein structure prediction in your research



**REGISTRATION DEADLINE: March 3, 2023**

**ORGANIZERS:** Eva KOWALINSKI (EMBL, FRA), Cameron MACKERETH (Inserm U1212, FRA) and Juan REGUERA (AFMB UMR7257, FRA)

**AIMS:** The workshop will bring together leaders in artificial intelligence and structural biology to discuss and demonstrate how modern computational predictive methods can be used to accelerate fundamental as well as applied research in academia and industry.



### PHASE I – CRITICAL ASSESSMENT

May 24-26, 2023 in Bordeaux

#### OVERVIEW AND HISTORY OF ML IN STRUCTURAL BIOLOGY

Jessica ANDREANI (CEA, FRA), David JUERGENS (Baker Lab, University of Washington, USA) and Oleg KOVALEVSKIY (DeepMind, GBR)

#### ML APPLICATIONS IN STRUCTURE DETERMINATION

Tom TERWILLIGER (New Mexico Consortium, USA), Panagiotis KASTRITIS (University of Halle, DEU), Malene RINGKJØBING JENSEN (IBS Grenoble, FRA) and Carlos SORZANO (CNB-CSIC Madrid, ESP)

#### ML FOR COMPLEXES AND DRUG DESIGN

Christian CABBILLAU (University College Cork, IRL), Richard SCHELTEMA (Utrecht University, NLD), Jan KOSINSKI (EMBL Hamburg, DEU) and Matthias HAFFKE (Novartis, CHE)

#### FUTURE OF ML IN STRUCTURAL BIOLOGY

Alex BATEMAN (EMBL-EBI, GBR), Preeti CHOUDHARY and Deborah HARRUS (PDBE-EBI, GBR), Sarah OSMAN (Nature Publishing, GBR), Joseph ROGERS (University of Copenhagen, DNK)



### PHASE II – TECHNICAL WORKSHOP

May 31- June 2, 2023 - Marseille

June 7-9, 2023 - Bordeaux and Grenoble

In Phase II, participants will be invited to apply with their particular project and will be grouped accordingly to the different practical sessions. These sessions will provide project-specific hands-on experience with using structure prediction (AlphaFold, RoseTTAFold) for applications in biochemical, biophysical and structural biology applications, such as X-ray crystallography, cryo-EM or NMR spectroscopy. Phase II is aimed at providing project tailored support to the participants and equipping them with tools to advance their research.

**SELECTION:** 5 trainees will be selected among Phase I participants.

Information and registration:  
<https://ateliersinserm.dakini-pco.com>