Biography

Prof. Alfonso Valencia's group is dedicated to the application of machine learning and artificial intelligence to Personalized Medicine, and exhibits ample experience in the development of software platforms for the extraction, integration and representation of big data for large-scale genome projects. The group participates in different international consortia such as the ENCODE project, the ICGC cancer genome effort (including the Spanish subproject on CLL), the BLUEPRINT project and Rare Diseases (RD)-Connect part of the International Rare Diseases Research Consortium (IRDiRC).

Furthermore, Alfonso Valencia is the director of the Spanish National Bioinformatics Institute (INB-ISCIII). The INB represents the Spanish node of the European Bioinformatics infrastructure ELIXIR, and is committed to generating and supplying bioinformatics solutions in the context of national and international activities and consortia.

Main Research Lines

- Software development for protein-protein interactions
- Docking for interactomics and personalized medicine
- Personalized Medicine Initiative
- New approaches to the prediction of protein structure and interactions
- Network Biology