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WeNMR: bringing grid (and cloud) computing to a worldwide structural biology community - Keynote by Alexandre Bonvin

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WeNMR: bringing grid (and cloud) computing to a worldwide structural biology community

WeNMR brings together research teams in the Structural Biology area into a Virtual Research Community (VRC), focusing primarily on biomolecular Nuclear Magnetic Resonance (NMR) and Small Angle X-ray Scattering (SAXS). The WeNMR platform integrates and streamlines the computational approaches necessary for NMR and SAXS data analysis and structural modelling using a grid-based e-Infrastructure fully which is integrated into EGI. Web portals provide user-friendly access, shielding end-users from the complexity of the grid. The WeNMR Virtual Research Community has grown to become one of the largest in the life sciences area, accounting for about 30% of CPU usage within the life sciences area. WeNMR is linked to INSTRUCT, in line with the ESFRI roadmap, but also aims to serve all relevant communities around the world, providing a global e-Infrastructure platform and science gateway for structural biology in general.

Alexandre Bonvin studied Chemistry at Lausanne University and obtained his PhD at Utrecht University. After two post-doc periods at Yale University and the ETHZ, he joined Utrecht University in 1998 where he was appointed full professor of computational structural biology in 2009. In 2006, he received a prestigious VICI grant from the Dutch Research Council. Bonvin coordinates the WeNMR e-Infrastructure project and participates in other EU projects. Research in his group focuses on the development of reliable bioinformatics and computational approaches to predict, model and dissect biomolecular interactions at atomic level. His work has resulted in over 125 peer-reviewed publications.

Session Classification: Keynotes