Contribution ID: **98** Type: **not specified**

CryoEM: From Biomedical impact to Cloud deployment

Friday, 8 April 2016 11:20 (20 minutes)

3D Electron Microscopy is having a strong biomedical impact helping scientists to reconstruct macromolecular complexes, like Ebola virus, reaching quasi atomic resolutions. Scipion framework integrates tools from several well known EM packages allowing the execution of standardized, traceable and reproducible image-processing protocols, which usually require the use of high performance computing clusters. Cloud infrastructure is the perfect match for both extensive use of computing resources and easy access to software and data which improves scientists work.

Speaker's biography

Jesus Cuenca is Senior System Manager at CNB-CSIC. He has a Ms in Computer Science. He has worked in telecommunications, education and image processing projects, like Scipion. His main interests are HPC and virtualization.

 Laura del Caño is a Senior Software Engineer with a Ms in Physics. She has worked in the area of IT consultancy on applications design and development. She has also worked in different European research projects, such as the JCOP Framework, to build the Control Systems for the LHC detectors at CERN, or EGEE and GRIDCC, related to development of Grid infrastructures for science. She currently works on the Scipion project, where she started as a developer and is now in charge of the Cloud deployment.

Presenters: CUENCA, Jesus (CSIC); DEL CANO, Laura (CSIC)

Session Classification: Environmental and health data services