



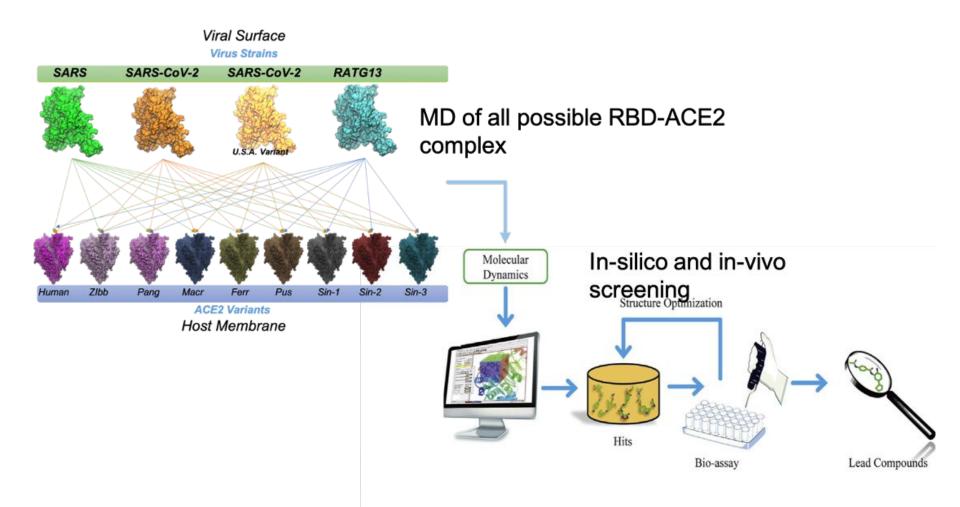
BioExcel Centre of Excellence

Driving Computational Biomolecular Research in Europe

Rossen Apostolov

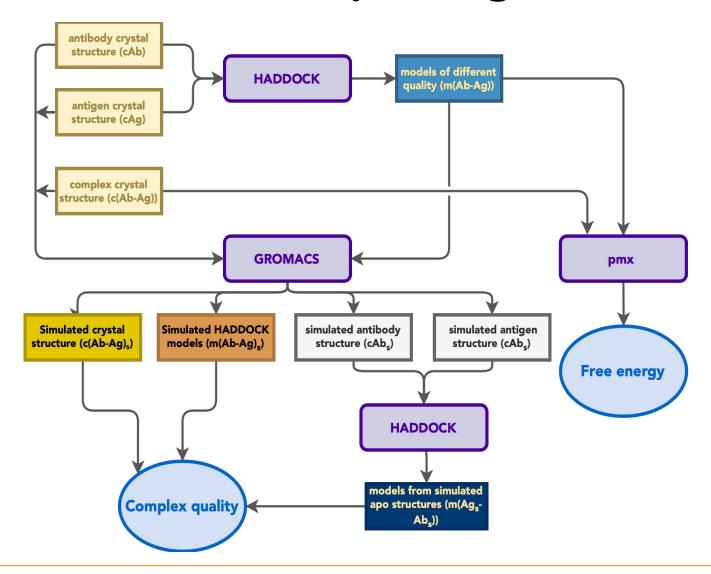
rossen@bioexcel.eu

COVID-19 drug screening



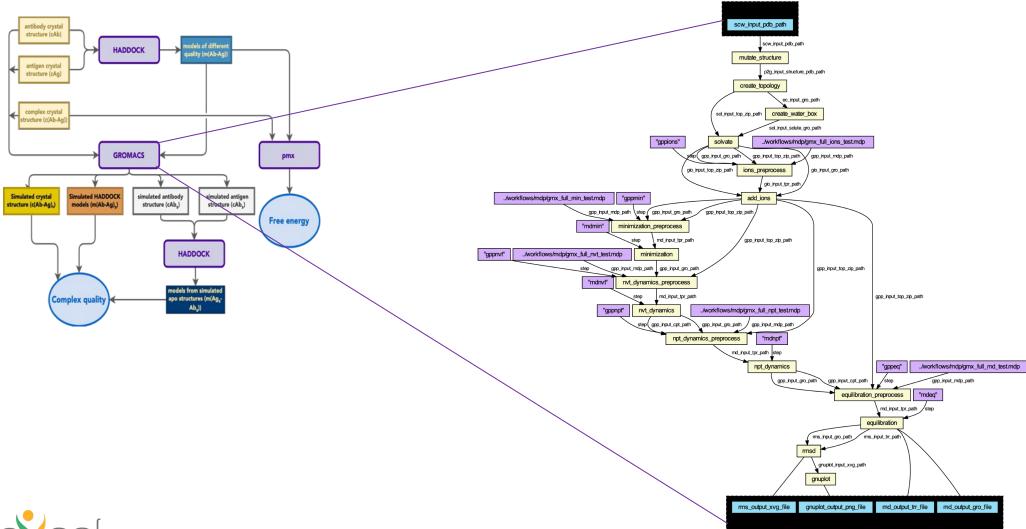


Antibody Design





Antibody Design

















BioExcel Partners



















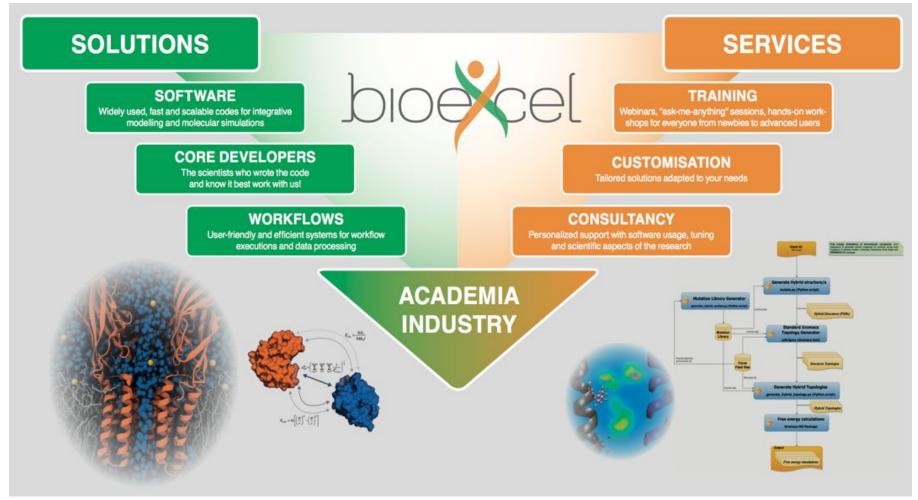






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The European hub for biomolecular modeling and simulations

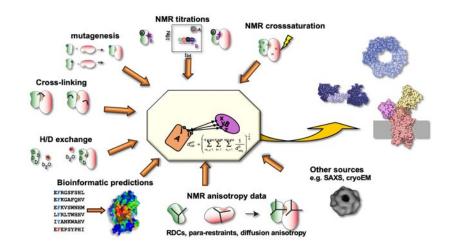




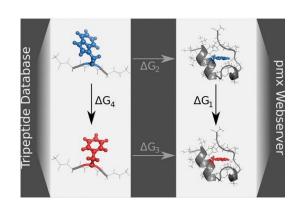
Core Applications



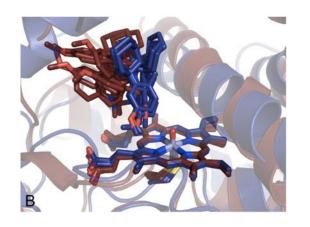
MD with GROMACS



Integrative modelling with HADDOCK



FE with PMX



Hybrid QM/MM with CP2K

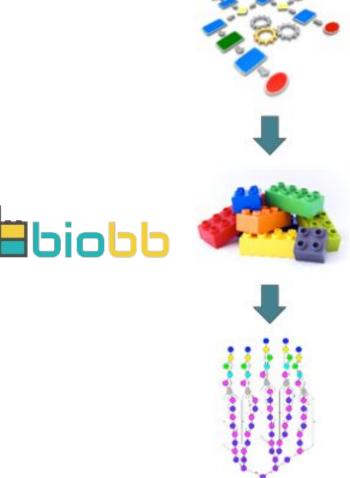


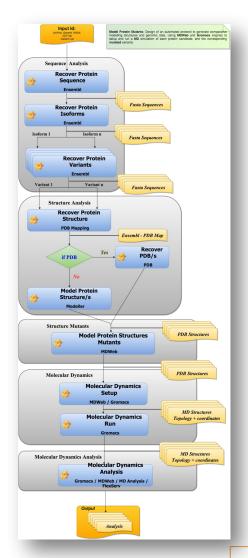
Workflows - Usability and Automation

 Make research computing easier to use by biomolecular researchers, both in academia and industry



 Devise efficient workflow environments with associated data integration



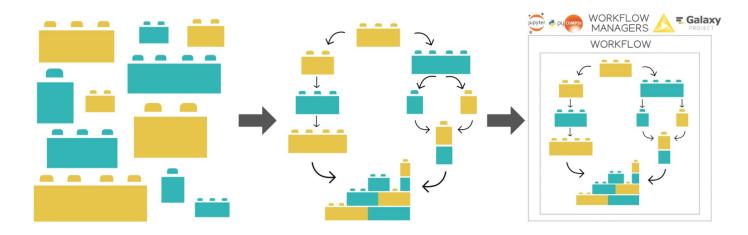




Workflows Optimization for exascale

✓ Used in COVID-19 studies

Exascale ready workflows







Supporting Academia and Industry

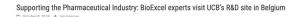










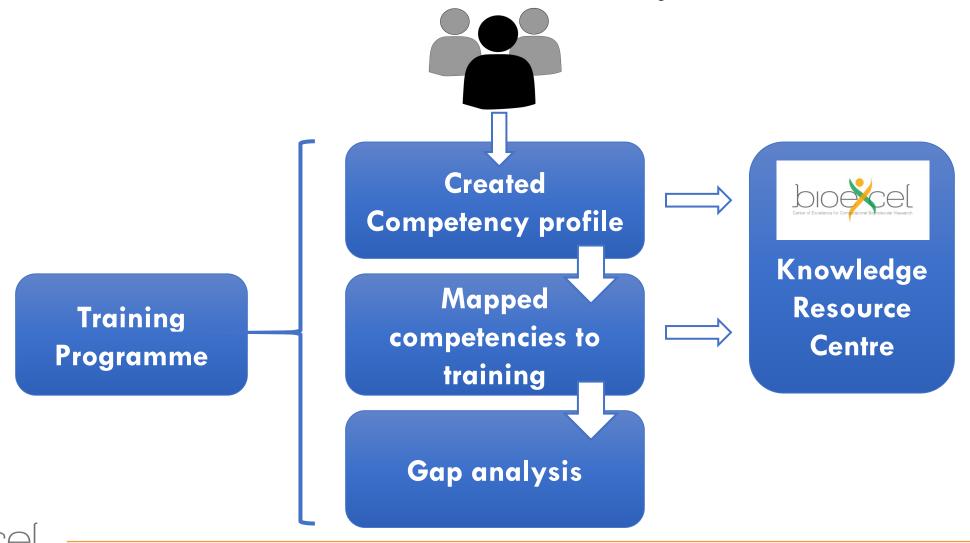




Bio Excel continues its direct support to industry through site visits. In late May we were pleased to visit UCB's research site in Braine D'Alleud, Belgium for an exciting day of in depth discussions.



Training Program based on needs analysis



Training events and courses





Reproducible analyses with Common Workflow Language

29 Apr, 2020 @ 13:00 – 15:30 – Online [...]

Preparing to run biomolecular QM/MM simulations with CP2K using AmberTools Online

09 Jun, 2020 @ 13:00 – 16:00 – Online [...]

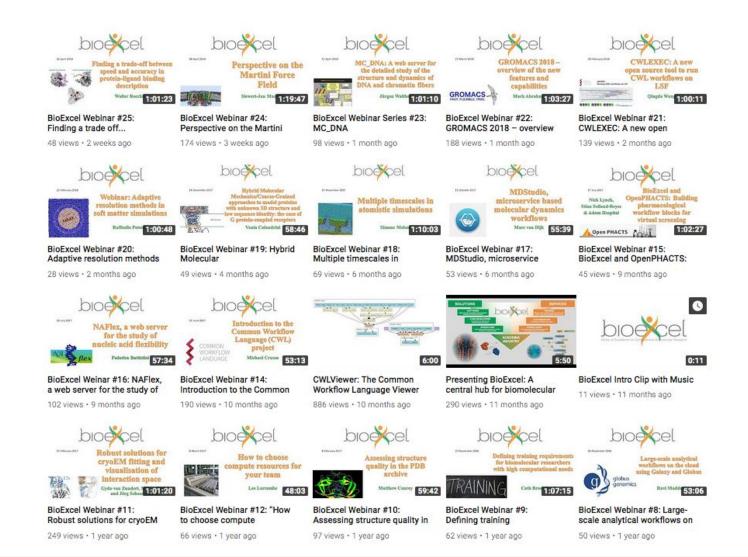


Remote BioExcel
Summer School on
Biomolecular
Simulations

22 Jun, 2020 – 26 Jun, 2020 @ All Day – Online [...]

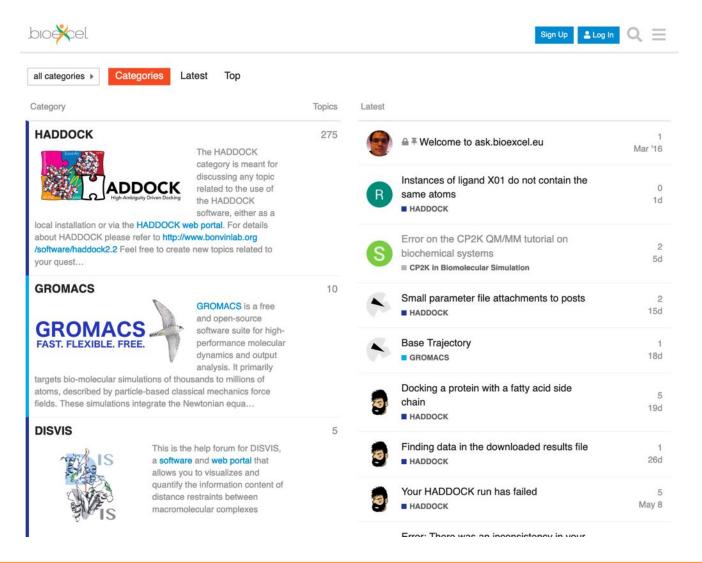


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