



Determination of ASD stability eg moisture vs temperature API/polymer & polymer/polymer interaction

Quantum Molecular Dynamics (QMD) + ePDF + API diffusion

Ab initio detection/ prediction of API solid solubility / miscibility limit

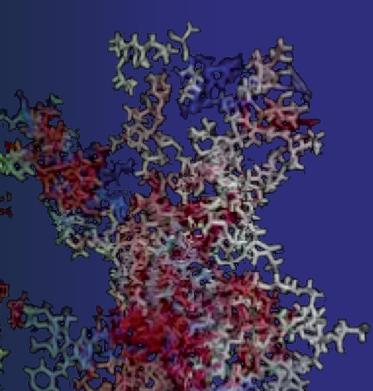
Electron Diffraction (ED) + ePDF

Early detection of Amorphous Phase Separation (APS)

High-throughput

Quantum Molecular Dynamics + ePDF

Full Amorphous Solid Dispersions (ASD) characterization



Supercomputing facilities

mm



TEM microscopy



High-throughput Quantum Molecular Dynamics (QMD) constrained by TEM- Electron Diffraction to optimize the design of drugs dosed in the form of ASDs