GRID computing *parallel data processing*	Model: Unit and Room: Responsible: Further information:	*SunFire X2250, Dell PE 1950, BL460c HP, Grid* *Rechenzentrum of the university* *Dr. Volker-H. Winterer, Rechenzentrum* *http://www.bfg.uni-freiburg.de*

Short Description: The Black-Forest Grid is currently constituted of 760 Cores and 2GB RAM per Core.	Picture of the Equipment
Available Experiments/Techniques: Ligand-based / structure-based compound screenings High throughput docking of compounds Molecular dynamics simulations of molecular interactions Prediction of binding affinities	

Special Equipment: Software, Molecular Modeling Platforms: Schrodinger, Inc. software suite Accelrys, Inc. software suite

Measurements on the equipment are currently done by:	☐ Students ☒ Students after Introduction ☒ Students after extensive training ☒ Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	
Typical problems that may be solved with this instrument:	*Identification of small molecules that come into question for drug leads. Prediction of binding affinities.*