Structural Bioinformatics Workshop

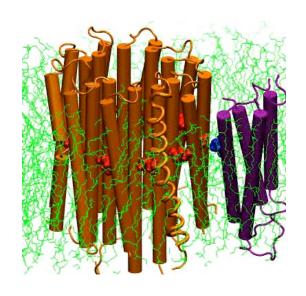


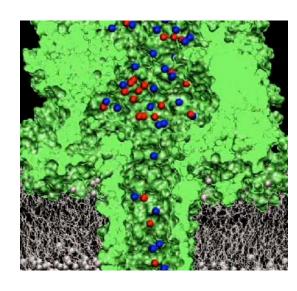
universidad de Talca

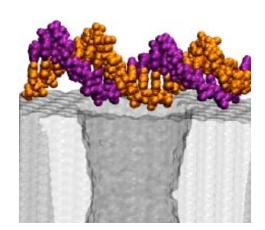


university of Illinois

Molecular Simulations of Transmembrane Proteins: VMD & NAMD



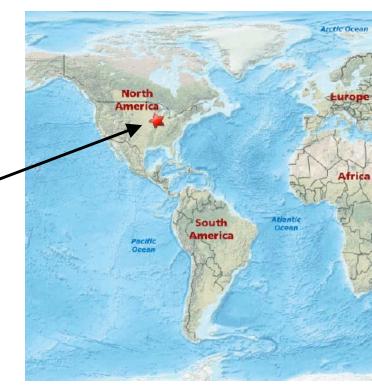




Theoretical and Computational Biophysics Group



Beckman Institute for Advanced Science and Technology



Urbana-Champaign and the world

40°N 88°W (5 km from Champaign)

Theoretical and Computational Biophysics Group

Aleksei Aksimentiev (Physics)

Zan Schulten (Chemistry)





Sanjay Kale (Computer Science)

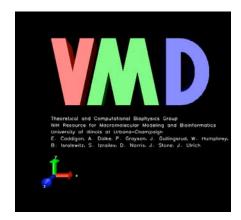
Emad Tajkhorshid (Pharmacology)

Theoretical and Computational Biophysics Group

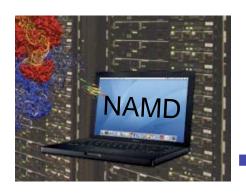
Home of VMD and NAMD



John Stone



(more them 60,000 users worldwide)





Jim Phillips

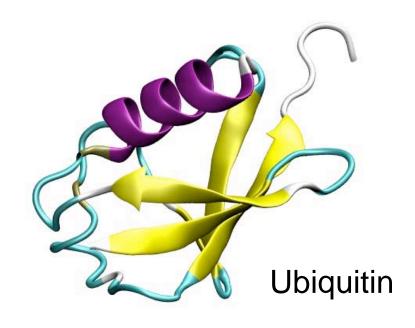


Day 1

- Overview (now)
- Introduction to VMD & NAMD 11:20 to 13:00

"Hands-on" lab VMD 14:00 to 17:00

"Hands on" lab NAMD 18:00 to 21:00



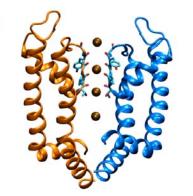
Day 2

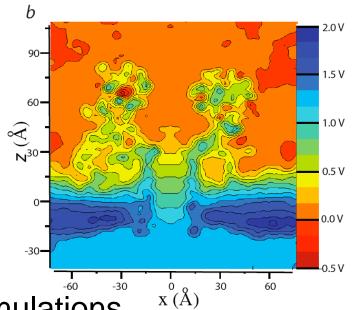
Simulation of membrane proteins

Lecture: 9:00-10:00

"Hands-on" lab

10:00-13:00





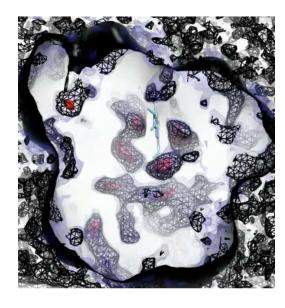
Analysis of membrane channel simulations

Lecture: 14:00-15:00

"Hands-on" lab:

15:00-18:00

 "Hands-on" lab: Images and Movies
18:00-20:00



Day 3

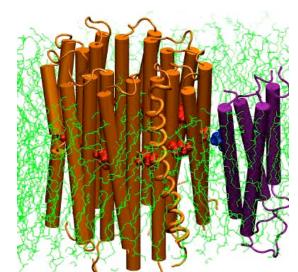
Introduction to TclForces and TclBC

Lecture:

9:00-10:00

"Hands-on" lab:

10:00-13:00

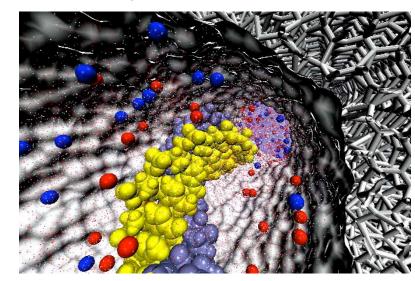


Simulations of Biomolecular/Inorganic Systems

Lecture:

14:00-15:00

"Hands-on" lab: 15:00-18:00



General Remarks

trans

- The course is a volunteer effort
- The main focus are the hands-on sessions
- The aim is to get you to do computational biology
- The lecturers / teaching assistants provide tutorials for you
- The optimal course is that you help each other

• Please give us feedback to improve lectures and tutorials