San Diego CADD Meeting

RCSB Protein Data Bank

RCSB PDB
PROTEIN DATA BANK

San Diego Supercomputer Center
UC San Diego

Scalable Visualization and Mining of the PDB

August 30, 2016 • 5:30 pm
Dart NeuroScience LLC, 12278 Scripps Summit Drive
San Diego, CA 92131

MMTF
http://mmtf.rcsb.org

Agenda

6:00 pm

- Welcome to San Diego CADD meeting – Brock Luty & Peter Rose
- RCSB PDB at UCSD – Peter Rose
- Accessing the PDB made easy: The Macromolecular Transmission Format (MMTF) – Yana Valasatava
- Scalable 3D web visualization using NGL Viewer and MMTF – Alexander Rose

6:30 pm

- Break

6:45 pm

- Introduction to distributed parallel computing with Apache Spark – Peter Rose
- Scalable mining of the PDB with Spark and MMTF – Anthony Bradley
- Spark Dataframes: Linking genomic information to 3D structure – Andreas Prlić

7:15 pm

- Discussion about future meeting topics
- Networking