

Poster Presentations:

- P-1 Alex Yuen: Purification, Crystallization and Preliminary X-Ray Diffraction Analysis of Colonization Factors from *Vibrio cholerae* and enterotoxigenic *Escherichia coli*
- P-2 Amy Raymond: Gene Composer for Gene Design
- P-3 Andrew Carmel: Investigation of the Interaction Between HIV-1 Rev and the Human-DEAD-box Helicase DDX-1
- P-4 Angele Arrieta: Structure determination of ferritin from a pinnate marine diatom
- P-5 Anoop K. Sendamarai: Structure of the membrane proximal oxidoreductase domain of human Steap3, the dominant ferrireductase of the erythroid transferrin cycle
- P-6 Bin Xu: Crystal structure determination of a novel class of human gamma-delta T cell receptor
- P-7 Catherine F.M. Gaudin: The C-terminal NEAT domain of the Staphylococcal protein IsdB binds heme
- P-8 Christophe L.M.J. Verlinde: BMSC Fragment Cocktails: Development and Experience in MSGPP
- P-9 E.T. Larson: Using fragment-based cocktail crystallography to find drug leads against uracil-DNA glycosylase of *Leishmania*
- P-10 George H. Gauss: *Bacteroides fragilis* Thioferritin Crystal Structure Highlights Structural Differences Between Bacterial and Archaeal Thioferritins
- P-11 Georgia Ukpabi: Characterization of substrate binding to IsdG and IsdI, two heme-degrading enzymes in *Staphylococcus aureus*
- P-12 Hengyu Xu: Putative Lipid-phosphate Head Group Binding Site on the Broadly Neutralizing Anti-HIV Antibody 4E10
- P-13 Jan Abendroth: De novo phasing at long wavelength X-rays - has the integration/scaling program an effect on the success of a SAD experiment?

P-14 Jeremy Lohman: A Family of Redox-Sensitive Green Fluorescent Protein Indicators for Use in Relatively Oxidizing Subcellular Environments

P-15 Jian Xu : Desktop Minstrel UV™: A Novel Protein Crystal Monitoring Automation System Using UV Fluorescence Microscopy

P-16 Kianoush Sadre-Bazazz: Activating the Proteasome: Structural Insights from Blm10

P-17 Kolappan Subramaniapillai: Structural Analysis of Pilin Subunit CofA from Enterotoxigenic Escherichia coli

P-18 Konstantin V. Korotkov: Nanobodies: powerful tools for protein crystallization

P-19 Lawrence Chun: Molecular Basis for the Specificity of p38 $\alpha$  Protein Kinase Switch Pocket Inhibitors in the Presence and Absence of Tyrosine Phosphorylation

P-20 Lijun Liu: Engineering a charged group into a non-polar cavity in T\$ lysozyme and its influence on the binding of polar and non-polar ligands

P-21 Lindsey Doyle: De Novo Computational Design of Retro-Aldol Enzymes

P-22 Mark Nissen: Crystal structures of apo-form and unique FMN complex of Mesorhizobium sp. BNC! NADH:FMN oxidoreductase (EmoB)

P-23 Meiting Wu: Structural studies of RNA-editing enzymes in Trypanosoma brucei

P-24 Nathanael G. Lintner: The Structure of STIV-A81: A Novel Protein from a Crenarchaeal Virus

P-25 Olga V. Kirillova: Cross validation criteria for refinement at low resolution

P-26 Ranjana Sarma: Crystal Structure of the L protein of Rhodobacter sphaeroides light-independent protochlorophyllide reductase (BchL) with MgADP bound: A homologue of the nitrogenase Fe protein

P-27 Ross Reynolds: The Structure of the Ligand Binding Domain of COUP-TFII conformationally folded to prevent the binding of a Ligand

P-28 Smita Menon: Function from Structure: A Case Study in Hyperthermophilic Crenarchaeal Viruses.

P-29 Yan Zhang: Determinants for Dephosphorylation of the RNA Polymerase II C-Terminal Domain by Scp1 phosphatase

P-30 Andrea Hall: On the Road to Substrate/Product Bound Peroxiredoxin Structures

P-31 Garry W. Buchko: Structural characterization of two proteins in the DUF683 and DUF269 families associated with nitrogen fixation in the cyanobacterium *Cyanothece*.

P-32 Patricia Khuu: A wobble AT base pair in the structure of an asymmetric Holliday junction: Evidence for a rare nucleotide base tautomer in a biological context

P-33 Jordan Ballinger: Crystal structure of chlorophenol-4-monooxygenase (TftD) from the 2,4,5-trichlorophenoxyacetic acid degrading bacterium *Burkholderia cepacia* AC1100