Session H - BIOCHEMISTRY AND MICROBIOLOGY (239)
Chair: Dr. David Moffett, Loyola Marymount University

S40 (2:00pm) COMPARISON OF NATURAL AND ANALOG dNTP INCORPORATION INTO DNA BY T4 BACTERIOPHAGE POLYMERASE AND HUMAN DNA POLYMERASE α. Greg Timblin*1 (Robert Kuchta2), 1Nebraska Wesleyan University, Dept. of Biology, 5000 St. Paul Ave., Lincoln, NE 60504 and 2University of Colorado, Dept. of Chemistry & Biochemistry, UCB 215, Boulder, CO 80309-0215.

S41 (2:15pm) QUANTUM CHEMICAL QUANTIFICATION OF WEAKLY POLAR INTERACTION ENERGIES IN THE TC5B MINIPROTEIN. Marcus P. D. Hatfield*1,2, (Sándor Lovas2), 1Nebraska Wesleyan University, Lincoln, NE 68504; 2Department of Biomedical Sciences, Creighton University, Omaha, NE 68178.

S42 (2:30pm) TOWARDS THE X-RAY CRYSTAL STRUCTURE OF P53R2, A P53 INDUCIBLE RIBONUCLEOTIDE REDUCTASE. Danny Nam Ho*, Cynthia Bui, Peter Smith (Sheryl Tsai), University of California, Irvine, Dept. of Biochemistry and Molecular Biology, West Peltason Dr., Irvine, CA 92697.

S43 (2:45pm) MEASURING INTERNAL MN LEVELS AND ESTABLISHING THE UPTAKE TREND IN CAENORHABDITIS ELEGANS USING ICP-MS. Lihini Keenawinna* (C. Srinivasan), California State University Fullerton, Department of Chemistry and Biochemistry, 800 N. State College Blvd, Fullerton, CA 92831.

S44 (3:00pm) CRYSTALS AND KEYS: UNDERSTANDING AN IMPORTANT SUBUNIT OF ACYL CO-A CARBOXYLASE IN MYCOBACTERIUM TUBERCULOSIS. Shushmita M. Ahmed*, Ting-Wan Lin (Sheryl Tsai), University of California, Irvine, Dept. of Biochemistry and Molecular Biology, West Peltason Dr., Irvine, CA 92697.

S45 (3:15pm) ACTIVATION AND TRANSPORT FUNCTIONS IN THE SERRATIA-TYPE HEMOLYSIN AND TRANSPORTER OF CHROMOBACTERIUM VIOLACEUM. Kyle Sally-O’Keefe* (Lamont Anderson), Department of Biology, Colorado College, 14 E. Cache la Poudre, Colorado Springs, CO 80903.