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FREQUENCY VARIANTASSOCIATIONS USING ALLELE-MATCHING TESTS THAT ACCOUNTFOR UNCERTAINTY; PENALIZED REGRESSION FOR GENOME-WIDE ASSOCIATIONSCREENING OF SEQUENCE DATA; MICROBIOME STUDIES: PSB 2011 SPECIAL SESSION INTRODUCTION ESTIMATING THE NUMBER OF SPECIES WITH CATCHALLA FRAMEWORK FOR ANALYSIS OF METAGENOMIC SEQUENCING DATA; VISUALIZATION AND STATISTICAL COMPARISONS OF MICROBIALCOMMUNITIES USING R PACKAGES ON PHYLOCHIP DATA; HUMAN MICROBIOME VISUALIZATION USING 3D TECHNOLOGY; COMPARING BACTERIAL COMMUNITIES INFERRED FROM 16S rRNA GENE SEQUENCING AND SHOTGUN METAGENOMICS; MULTI-SCALE MODELLING OF BIOSYSTEMS: FROM MOLECULAR TOMESOCALE; COMPUTATIONAL GENERATION INHIBITOR-BOUND CONFORMERS OF P38 MAPKINASE AND COMPARISON WITH EXPERIMENTS

MOLECULAR DYNAMICS SIMULATIONS OF THE FULL TRIPLE HELICALREGION OF COLLAGEN TYPE I PROVIDE AN ATOMIC SCALE VIEW OF THEPROTEIN'S REGIONAL HETEROGENEITYSTRUCTURAL INSIGHTS INTO PRE-TRANSLOCATION RIBOSOME MOTIONS; NEW CONFORMATIONAL SEARCH METHOD USING GENETICALGORITHM AND KNOT THEORY FOR PROTEINS; PERSONAL GENOMICS; THE REFERENCE HUMAN GENOME DEMONSTRATES HIGH RISK OF TYPE 1DIABETES AND OTHER DISORDERS; MATCHING CANCER GENOMES TO ESTABLISHED CELL LINESFOR PERSONALIZED ONCOLOGY

USE OF BIOLOGICAL KNOWLEDGE TO INFORM THE ANALYSIS OF GENE-GENEINTERACTIONS INVOLVED IN MODULATING VIROLOGIC FAILURE WITHEFAVIRENZ-CONTAINING TREATMENT REGIMENS IN ART-NAIVE ACTG CLINICALTRIALS PARTICVISUAL INTEGRATION OF RESULTS FROM A LARGE DNA BIOBANK (BIOVU)USING SYNTHESIS-VIEW; MULTIVARIATE ANALYSIS OF REGULATORY SNPS: EMPOWERING PERSONALGENOMICS BY CONSIDERING CIS-EPISTASIS AND HETEROGENEITY; HAPLOTYPE INFERENCE FROM SHORT SEQUENCE READS USING APOPULATION GENEALOGICAL HISTORY MODEL; REVERSE ENGINEERING AND SYNTHESIS OF BIOMOLECULAR SYSTEMS; BINARY COUNTING WITH CHEMICAL REACTIONS

DEFINING THE PLAYERS IN HIGHER-ORDER NETWORKS: PREDICTIVE MODELINGFOR REVERSE ENGINEERING FUNCTIONAL INFLUENCE NETWORKS

Sommario/riassunto	The Pacific Symposium on Biocomputing (PSB) 2011 is an international, multidisciplinary conference for the presentation and discussion of current research in the theory and application of computational methods in problems of biological significance. Presentations are rigorously peer reviewed and are published in an archival proceedings volume. ""PSB 2011"" will be held on January 3 - 7, 2011 in Kohala Coast, Hawaii. Tutorials and workshops will be offered prior to the start of the conference. PSB 2011 will bring together top researchers from the US, Asia Pacific, and around the world to exchan