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Ranka. Transcriptional interactions during smallpox infection and identification of early infection biomarkers / Willy A. Valdivia-Granda, Maricel G. Kann, and Jose Malaga -- Computational approaches to metabolomics. Session introduction / David S. Wishart and Russell Greiner. Leveraging latent information in NMR spectra for robust predictive models / David Chang, Aalim Weljie, and Jack Newton. Bioinformatics data profiling tools: a prelude to metabolic profiling / Natarajan Ganesan, Bala Kalyanasundaram, and Mahe Velauthapllai. Comparative QSAR analysis of bacterial, fungal, plant and human metabolites / Emre Karakoc, S. Cenk Sahinalp, and Artem Cherkasov. BioSpider: a web server for automating metabolome annotations / Craig Knox ... [et al.]. New bioinformatics resources for metabolomics / John L. Markley ... [et al.]. Setup X - a public study design database for metabolomic projects / Martin Scholz and Oliver Fiehn. Comparative metabolomics of breast cancer / Chen Yang ... [et al.]. Metabolic flux profiling of reaction modules in liver drug transformation / Jeongah Yoon and Kyongbum Lee -- New frontiers in biomedical text mining. Session introduction / Pierre Zweigenbaum ... [et al.]. Extracting semantic predications from medline citations for pharmacogenomics / Caroline B. Ahlers ... [et al.]. Annotating genes using textual patterns / Ali Cakmak and Gultekin Ozsoyoglu. A fault model for ontology mapping, alignment, and linking systems / Helen L. Johnson, K. Bretonnel Cohen, and Lawrence Hunter. Integrating natural language processing with flybase curation / Nikiforos Karamanis Y. ... [et al.]. A stacked graphical model for associating sub-images with sub-captions / Zhenzhen Kou, William W. Cohen, and Robert F. Murphy. GeneRIF quality assurance as summary revision / Zhiyong Lu, K. Bretonnel Cohen, and Lawrence Hunter. Evaluating the automatic mapping of human gene and protein mentions to unique identifiers / Alexander A. Morgan ... [et al.]. Multiple approaches to fine-grained indexing of the biomedical literature / Aurelie Neveol ... [et al.]. Mining patents using molecular similarity search / James Rhodes ... [et al.]. Discovering implicit associations between genes and hereditary diseases / Kazuhiro Seki and Javed Mostafa. A cognitive evaluation of four online search engines for answering definitional questions posed by physicians / Hong Yu and David Kaufman -- Biodiversity informatics: managing knowledge beyond humans and model organisms. Session introduction / Indra Neil Sarkar. Biomediator data integration and inference for functional annotation of anonymous sequences / Eithon Cadag ... [et al.]. Absent sequences: nullomers and primes / Greg Hampikian and Tim Andersen. An anatomical ontology for amphibians / Anne M. Maglia ... [et al.]. Recommending pathway genes using a compendium of clustering solutions / David M. Ng, Marcos H. Woehrmann, and Joshua M. Stuart. Semi-automated XML markup of biosystematic legacy literature with the Goldengate editor / Guido Sautter, Klemens Bohm, and Donat Agosti -- Computational proteomics: high-throughput analysis for systems biology. Session introduction / William Cannon and Bobbie-Jo Webb-Robertson. Advancement in protein inference from shotgun proteomics using peptide detectability / Pedro Alves ... [et al.]. Mining tandem mass spectral data to develop a more accurate mass error model for peptide identification / Yan Fu ... [et al.]. Assessing and combining reliability of protein interaction sources / Sonia Leach ... [et al.]. Probabilistic modeling of systematic errors in two-hybrid experiments / David Sontag, Rohit Singh, and Bonnie Berger. Prospective exploration of biochemical tissue composition via imaging mass spectrometry guided by principal component analysis / Raf Van de Plas ... [et al.] -- DNA-protein interactions: integrating structure, sequence, and function. Session introduction / Martha L.

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