

T2: Bioinformatics and Functional Genomics

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Session 8 - The Role of Chemical Engineers in Bioinformatics and Systems Biology World (Invited)

Chair: Ranjan Srivastava

Vice Chair: Kenneth J Kauffman

8d [Hybrid Models: Relating Genomic Detail to Cell Physiology and Extracellular Environment](#)
M.L. Shuler, S.D. Archer and M. Castellanos

Session 9 - Bioinformatics and Functional Genomics I: Focus on Complex Biological and Biomedical Systems (Invited) *

Chair: Vassily Hatzimanikatis

Vice Chair: Ranjan Srivastava

Session 10 - Bioinformatics and Functional Genomics III: Focus on Transcriptomics

Chair: Christina Chan

Vice Chair: Agnes Ostafin

10f [Microarray and EST database estimates of mRNA expression levels differ: The protein length versus expression curve for C. elegans](#)
Enrique T. Munoz, Leonard D. Bogarad and Michael W. Deem

Session 11 - Complex Biological Systems

Chair: Vassily Hatzimanikatis

Vice Chair: Babatunde A Ogunnaike

11b [Surface Dynamics of Epidermal Growth Factor Receptors: Study of Ligand Binding and Oligomerization Events](#)
Kapil Mayawala, Dionisios G. Vlachos, Jeremy S. Edwards

11e [Experimental and Theoretical Studies of Artificial Microbial Symbiosis](#)
Nikos Reppas, Xiaoxia Lin and George M. Church

Session 12 - Bioinformatics and Functional Genomics IV: Focus on Proteomics

Chair: Kenneth F Reardon

Vice Chair: Alfred Gaertner

12e [Proposal to Present #12e: A Proteomic Approach to Identify Physiological Changes in E. coli Metabolically Engineered for Enhanced TCE Degradation and Toxicity Reduction](#)
C. M. R. Lacerda, K. F. Reardon, L. Rui and T. K. Wood

* These papers were unavailable at the time of publication.