

Table of Contents

Scroll to the title and select a [Blue](#) link to open a paper. After viewing the paper, use the bookmarks to the left to return to the beginning of the Table of Contents.

BIO - Computational BIOlogy and BIOinformatics Track

Track Co-Chairs: Paola Lecca, University of Trento, Italy
Dan Tulpan, National Research Council, Canada
Juan Manuel Corchado Rodriguez, University of Salamanca, Spain

[Track Editorial](#) 1

[LIF: A Method to Infer Disease-Gene Relationships using Literature Data and Impact Factor](#) 3

Jeongwoo Kim, Yonsei University, Korea
Jinyong Lee, Yonsei University, Korea
Heechul Kang, Yonsei University, Korea
Chunghun Kim, Yonsei University, Korea
Sanghyun Park, Yonsei University, Korea

[A Profile-Based Probabilistic Approach for the Detection of Anomalies in the Cytochrome C Oxidase I Amplicon Sequence](#) 11

Mahdi Belcaid, University of Hawaii at Manoa, USA
Guyllaine Poisson, University of Hawaii at Manoa, USA

[Inference of Regulatory Networks with MCMC sampler guided by Mutual Information](#) 18

Nilzair M. Barreto, Universidade Federal do Rio Grande, Brazil
Karina S. Machado, Universidade Federal do Rio Grande, Brazil
Adriano V. Werhli, Universidade Federal do Rio Grande, Brazil

Poster Papers

[Ranking Novel Regulatory Genes in Gene Expression Profiles using NetExpress](#) 24

Belma Yelbay, Sabanci University, Turkey
Alexander Gow, Wayne State University, USA
Hasan M. Jamil, University of Idaho, USA

[Biclustering of Time Series Data using Factor Graphs](#) 28

Matteo Denitto, University of Verona, Italy
Alessandro Farinelli, University of Verona, Italy
Manuele Bicego, University of Verona, Italy

Student Research Competition Paper

[Student Research Abstract: Computational Study of Inward Rectifying Ion Channel in Urinary Bladder Over Activity](#) 31

Chitaranjan Mahapatra, Indian Institute of Technology Bombay, India

[Student Research Abstract: A Deep Learning Framework for Identification of microRNA Regulatory Modules](#) 33

Vasu Jindal, University of Texas at Dallas, USA