

# International Journal of Knowledge Discovery in Bioinformatics

July-December 2014, Vol. 4, No. 2

## Table of Contents

### RESEARCH ARTICLES

- 1 **Interactive Data Visualization to Understand Data Better: Case Studies in Healthcare System**  
*Zhecheng Zhu, National Healthcare Group, Singapore*  
*Bee Hoon Heng, National Healthcare Group, Singapore*  
*Kiok Liang Teow, National Healthcare Group, Singapore*
  
- 11 **Analysis of microRNA Regulated Seed Biology Networks in Arabidopsis**  
*Anamika Basu, Gurudas College, Kolkata, India*  
*Anasua Sarkar, Government College of Engineering and Leather Technology, Kolkata, India*  
*Piyali Basak, School of Bioscience and Engineering, Jadavpur University, Kolkata, India*
  
- 21 **Pharmacy Data Integrity for Optimal Analytics**  
*C. David Butler, Teradata, Inc., Dayton, OH, USA*
  
- 46 **Gene Set- and Pathway- Centered Knowledge Discovery Assigns Transcriptional Activation Patterns in Brain, Blood, and Colon Cancer: A Bioinformatics Perspective**  
*Lilit Nersisyan, Institute of Molecular Biology, National Academy of Sciences and College of Science and Engineering, American University of Armenia, Yerevan, Armenia*  
*Henry Löffler-Wirth, Interdisciplinary Centre for Bioinformatics (IZBI), Leipzig University, Leipzig, Germany*  
*Arsen Arakelyan, Institute of Molecular Biology, National Academy of Sciences and College of Science and Engineering, American University of Armenia, Yerevan, Armenia*  
*Hans Binder, Interdisciplinary Centre for Bioinformatics (IZBI), Leipzig University, Leipzig, Germany*

### Copyright

The **International Journal of Knowledge Discovery in Bioinformatics (IJKDB)** (ISSN 1947-9115; eISSN 1947-9123), Copyright © 2014 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Knowledge Discovery in Bioinformatics* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory