

Contents

Contents	v
Genetic analysis of leaf expansion trait in <i>Brassica rapa</i> L. ssp. <i>chinensis</i> (L.) Hanelt	1
<i>Jian-ming Han, Rui-ling Wang, Yan-wei Cheng, Xue-bin Li, Chao-jun He</i>	
Dynamical complexity in a predator-prey-epidemic system	6
<i>Min Su, Zhenshan Lin</i>	
DMS model Calibration Using Genetic Algorithm	10
<i>Bo Qu, Albert J. Gabric, JiaoJiao Xi</i>	
Mining Disease Associated Biomarker Networks from PubMed	15
<i>Zhong Huang</i>	
Pharmacophores Generation of multiple Anti-inflammatory Targets and Identification of Active Compounds in Chinese herbs	19
<i>Yanling Zhang, Yuanming Wang, Yanjiang Qiao</i>	
Colored Petri Nets for Multiscale Systems Biology – Current Modeling and Analysis Capabilities in Snoopy	24
<i>Fei Liu, Monika Heiner, Ming Yang</i>	
Prediction of Enzyme Catalytic Sites on Protein Using a Graph Kernel Method	31
<i>Benaragama V.M.V. Sanjaka, Changhui Yan</i>	
Global stability of the SEIR epidemic model with infectivity in both latent period and infected period	34
<i>Yu Zhang, Ze-Zhu Ren</i>	
Tissue Significances Tests on DNA Binding Sequence Motifs for Human Genes	39
<i>Hua Yu, Xiu-Jun GONG</i>	
Subcellular localization prediction of apoptosis proteins based on the data mining for amino acid index database	43
<i>Zhuo-xing Shi, Qi Dai, Ping-an He, Yu-hua Yao, Bo Liao</i>	
Karyotype and evolution analysis of vulnerable fish <i>Onychostoma lini</i> from China	49
<i>Yinggui Dai</i>	
Rank-based interolog mapping for predicting protein-protein interactions between genomes	55
<i>Yu-Shu Lo, Chun-Chen Chen, Kai-Cheng Hsu, Jinn-Moon Yang</i>	
Exploring the interaction patterns in seasonal marine microbial communities with network analysis	63
<i>Shao-Wu Zhang, Ze-Gang Wei, Chen Zhou, Yu-Chen Zhang, Ting-He Zhang</i>	
GPU-Meta-Storms: Computing the similarities among massive microbial communities using GPU	69
<i>Xiaoquan Su, Xuetao Wang, Jian Xu, Kang Ning</i>	
Accelerating Processing Speed in Pathway Research Based on GPU	75
<i>Bo Liao, Ting Yao, Xiong Li</i>	
Hopf bifurcation and Turing instability in a modified Leslie-Gower prey-predator model	80
<i>Yan Meng, Guangwu Wen, Lequan Min</i>	
Dynamical behaviour of an anti-HBV infection therapy model with time-delayed immune response	86
<i>Xinjian Zhuo, Yongmei Su</i>	
A Novel HMM for Analyzing Chromosomal Aberrations in Heterogeneous Tumor Samples	92
<i>Hong Xia, Yuanning Liu, Minghui Wang, Huanqing Feng, Ao Li</i>	
Towards kinetic modeling of metabolic networks with incomplete parameters	97
<i>Wei Zheng, Xiaomei Zhu, Yongcong Chen, Paohung Lin, Ping Ao</i>	
Anti-Cancer Effect of Aloe Emodin on Breast Cancer Cells, MCF-7	103
<i>Indah Mohd Amin, Siti H. Sheikh Abdul Kadir, Nik Mohd Mazuan Nik Mohd Rosdy, Rosfaiizah Siran, Narimah A. H. Hasani</i>	

A Stochastic Simulation Algorithm For Biochemical Reactions With Delays	109
<i>Pei Wang, Jinhua Lii, Li Wan, Yao Chen</i>	
A Method For Discriminating Native Protein-DNA Complexes From Decoys Using Spatial Specific Scoring Matrices .	115
<i>Wen Cheng, Changhui Yan</i>	
Predicting the non-compact conformation of amino acid sequence by particle swarm optimization	119
<i>Yuzhen Guo, Yong Wang</i>	
Meta-Analysis on Gene Regulatory Networks Discovered by Pairwise Granger Causality	123
<i>Gary Hak Fui Tam, Yeung Sam Hung, Chunqi Chang</i>	
Construction of human tissue-specific phosphorylation networks with protein expression data	129
<i>Yin-Ying Wang, Chenglei Sun, Luonan Chen, Xing-Ming Zhao</i>	
A novel discretization method for processing digital gene expression profiles	134
<i>Jibin Qu, Jinxia Zhang, Chenyang Huang, Baogui Xie, Yong Wang, Xiang-Sun Zhang</i>	
Detect taxonomy-specific pathway associations with environmental factors using metagenomic data	139
<i>Xue Tian, Fuzhou Gong, Shihua Zhang</i>	
Anti-rheumatic effects of Tripterygium wilfordii Hook F in a network perspective	145
<i>Haiyang Fang, Tinghong Yang, Yichuan Wang, Yang Ga, Yi Zhang, Weidong Zhang, Jing Zhao</i>	
Cell Commitment Motif Composed of progenitor-specific TF and Fate-Decision Motif	150
<i>Tongpeng Wang, Peipei Zhou, Ruiqi Wang</i>	

Author Index	157
---------------------	------------