ACM BCB 2014 Program

REGISTRATION:

Saturday 7:30am-5pm/Sunday 8-11am/Monday 8-11am

Saturday September 20, 2014						
	Cardiff	Salon 1 & 2	Salon 3	Salon 4	Salon 5	Baycliff
8:30-10:30	ICIW		BigLS	CSBW	CNB-MAC	T1
10:30-11:00	Break					
11:00-1:00	ICIW		BigLS	CSBW	CNB-MAC	T5
1:00-2:00	Lunch					
2:00-4:00	ICIW	ParBio	BigLS	DL	CNB-MAC	T3
4:00-4:30	Break					
4:30-6:30	ICIW	IWBNA	BigLS	T2	CNB-MAC	T4

TUTORIALS:

T1:	Integrated Analysis of Next-Generation-Sequencing Data using Variant Tools
	Primary contact: Bo Peng <u>bpeng@mdanderson.org</u>
T2:	Informatics Approaches to Evidence-Based Medicine, with Emphasis on Systematic Reviews
	Primary contact: Aaron Cohen <u>cohenaa@ohsu.edu</u>
Т3:	Robot Motion Planning Methods for Modeling Structures and Motions of Biomolecules
	Primary contact: Amarda Shehu <u>amarda@gmu.edu</u>
T4:	Network Approaches in Aging Research with Focus on Biological Network Alignment
	Primary contact: Tijana Milenkovic <u>tmilenko@nd.edu</u>
T5:	Computational Prediction of Protein-Protein Interfaces with Emphasis on Partner-Specific Protein-
	Protein Interaction
	Primary contact: Vasant G. Honavar <u>vhonavar@ist.psu.edu</u>

WORKSHOPS:

BigLS:	Big Data in the Life Sciences
	Organizers: Ananth Kalyanaraman and Jaroslaw Zola
CNB-MAC:	Computational Network Biology: Modeling, Analysis, and Control
	Organizers: Byung-Jun Yoon and Xiaoning Qian
CSBW:	Computational Structural Bioinformatics
	Organizers: Jing Je, Amarda Shehu, Nurit Haspel, and Brian Chen
ICIW:	Immunoinformatics and Computational Immunology
	Organizers: Vasant Honavar, Guanglan Zhang, and Lou T. Chitkushev
IWBNA:	Biomolecular Network Analysis
	Organizers: Young-Rae Cho, Pietro H. Guzzi, and Pierangelo Veltri
ParBio:	Parallel and Cloud-based Bioinformatics and Biomedicine
	Organizers: Mario Cannataro and John A. Springer
DL:	Deep Learning in Bio- and Health Informatics
	Organizer: Pierre Baldi

	Sunday September 21, 2014			
8:45-9:00	Welcome			
	Location: Salon 1-5			
	Session Chai	r: Pierre Baldi		
9:00-10:00	Keynote 1 (CTB)			
	Fine-Grained Phenotypes, Comorbidities and Disease Trajectories from Data Mining of Electronic			
	Patient Records.			
	Søren Brunak, Technical University of Denmark & University of Copenhagen			
	Session Chair: Pierre Baldi			
	Location:	Salon 1-5		
10:00-10:30	Bri	eak		
10:30-11:30	Industrial Session 1			
	Trends in Genomic Data	a and Big Data Analytics.		
	Scott	Kahn		
	Vice President, Commercial Ente	erprise Informatics, Illumina, Inc.		
	Session Chair: Ana	stasia Christianson		
	Location:	Salon 1-5		
11.20 12.00	Dublished	Highlights		
11.50-12.00	Fublished Session Chair: I	Inightights		
	Location:	Salon 1-5		
		atia Cana Finding Algorithms		
	Automatic Training of Eukaryotic Gene Finding Algorithms.			
	Νιατκ Βοτοάονsκγ			
	Predicting gene regulatory networks of soybean nodulation from RNA-Seq transcriptome data. Mingzhu Zhu, Jeremy Dahmen, Gary Stacey, and Jianlin Cheng.			
	Health Monitors for Chronic Disease by Gait Analysis with Mobile Phones.			
	Joshua Juen, Qian Cheng, Valentin Prieto-Centurion, Jerry Krishnan, and Bruce Schatz.			
12:00-1:00	Lunch			
1.00 2.20	Location: R	lose Garden		
1:00-3:30	Faper 3	Session \$2 (PI)		
	Session Chair: Amarda Shohu	Session Chair: Loopard McMillan		
	Location A: Salon $A & 5$	Location B: Salon 1-3		
1.00-1.30	Granh-Theoretic Analysis of Enilentic Seizures on	IPED2: Inheritance Path based Pedigree		
1.00 1.50	Scalp EEG Recordings.	Reconstruction Algorithm for Complicated		
	Nimit Dhulekar. Basak Oztan. Bülent Yener. Haluk	Pedigrees.		
	O. Bingol, Gulcin Irim, Berrin Aktekin, and Canan	Dan He, Zhanyong Wang, Laxmi Parida, and		
	Aykut Bingol.	Eleazar Eskin.		
1:30-2:00	A Hadoop-Galaxy adapter for user-friendly and	Amb-EM: A SNP-based Prediction of HLA Alleles		
	scalable data-intensive bioinformatics in Galaxy.	Using Ambiguous HLA Data.		
	Luca Pireddu, Simone Leo, Nicola Soranzo, and	Vanja Paunic, Michael Steinbach, Abeer		
	Gianluigi Zanetti.	Madbouly, and Vipin Kumar.		
2:00-2:15	Deep Autoencoder Neural Networks for Gene	Mining massive SNP data for identifying		
	Ontology Annotation Predictions.	associated SNPs and uncovering gene		
	Davide Chicco, Peter Sadowski, and Pierre Baldi.	relationships.		
		Amy Webb, Aaron Albin, Zhan Ye, Majid Rastegar-		
		Mojarad, Kun Huang, Jeffrey Parvin, Wolfgang		
		Sadee, Lang Li, Simon Lin, and Yang Xiang.		

2:15-2:30	An Improved Algorithm for the Sorting by	PseudoLasso: Leveraging Read Alignment in	
	Reversals and Transpositions Problem.	Homologous Region to Correct Pseudogene	
	Ulisses Dias. Andre Rodrigues Oliveira, and Zanoni	Expression Estimates via RNASeq.	
	Dias.	Chelsea JT. Ju, Zhuangtian Zhao, and Wei Wang.	
2:30-2:45	Data Mining to Aid Beam Angle Selection for	Focus: A New Multilayer Graph Model for Short	
	Intensity-Modulated Radiation Therapy.	Read Analysis and Extraction of Biologically	
	Stuart Price, Bruce Golden, Edward Wasil, and Hao	Relevant Features.	
	Zhang.	Julia Warnke and Hesham Ali.	
2:45-3:00	omniClassifier: a Desktop Grid Computing System	AccuRMSD: A Machine Learning Approach to	
	for Big Data Prediction Modeling	Predicting Structure Similarity of Docked Protein	
	John H. Phan, Sonal Kothari, and May D. Wang.	Complexes.	
		Bahar Akbal-Delibas, Marc Pomplun, and Nurit	
		Haspel.	
3:00-3:15	Spectral feature selection and its application in	Large Highly Connected Clusters in Protein-Protein	
	high dimensional gene expression studies.	Interaction Networks .	
	Zixing Wang, Peng Qiu, Wenlong Xu, and Yin Liu.	Suzanne Gallagher and Debra Goldberg.	
3:15-3:30	Dynamic Coordinate Registration Method for	Quantitative Trait Loci Mapping with Microarray	
	Image-Guided Surgery.	Marker Intensities.	
	Xi Wen, Hong Wang, and Weiming Zhai.	Chen-Ping Fu, Fernando Pardo-Manuel de Villena,	
		and Leonard McMillan.	
3:30-4:00	Break		
4:00-6:00	SigBio community meeting		
	Session Chair: Aidong Zhang		
	Location: Salon 1-5		
6:00-8:00	Reception / Poster Session / Demo / Exhibit		
	Location: Cardiff, Del Mar, Laguna, & Sunset		
	Session Chairs: Yu-Ping wang,	Xiaonul Xie , and Dongxiao Zhu	
	DEMO 1		
	A Schema-Matching Tool for Alzheimer's Disease Data Integration		
	Peeho Dewan Naveen Ashish and Arthur Toga		
	University of Southern California Los Angeles CA LISA		
	DEM	10 2:	
	The DOE Systems Biology Knowledgebase (KBase)	: Progress Towards a System for Collaborative and	
	Reproducible Inference and M	lodeling of Biological Function.	
	Robert Cottingham, Oak Ridge Nation	onal Laboratory, Oak Ridge, TN, USA	
	URL: http:/	/kbase/us/	
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Monday September 22, 2014			
9:00-10:00	Keynote 2 (BI)		
	Towards System Level Analysis of Tumor Heterogeneity.		
	Teresa Prztycka, National Center for Biotechnology Information, National Institutes of Health		
	Session Chair: Terry Gaasterland		
	Location	: Salon 1-5	
10:00-10:30	Br	eak	
10:30-12:00	Paper S	Session II	
	Session S3 (BI)	Session S4 (CTB)	
	Session Chair: Mark Borodovsky	Session Chair: Jianlin Cheng	
10.20 11.00	Location A: Salon 4 & 5	Location B: Salon 1-3	
10:30-11:00	FStitch: A fast and simple algorithm for detecting	Networks to Continue Joint Effect of Conv Number	
	Indicent Riva transcripts.	Variante	
	Pobin Dowell	Zhivong Wang, Jinho Xu, and Yinghua Shi	
11.00-11.30	InstantGenetyne: A Non-parametric Model for	Pathway Analysis with Signaling Hypergraphs	
11.00-11.50	Genotype Inference Using Microarray Probe	Anna Ritz and T. M. Murali	
	Intensities		
	Chia-Yu Kao, Chen-Ping Fu, and Leonard McMillan		
11:30-11:45	Haplotype-Centered Mapping for Improved	Data-driven prediction of cancer cell fates with a	
	Alignments and Genetic Association Studies.	non-linear model of signaling pathways.	
	Paul Bodily, Perry Ridge, Stanley Fujimoto, Quinn	Fan Zhang, Chee Keong Kwoh, Min Wu, and Jie	
	Snell, and Mark Clement.	Zheng.	
11:45-12:00	A Comparison of Combined P-value Methods for	Discovering Dysregulated Phenotype-Related Gene	
	Gene Differential Expression Using RNA-Seq Data.	Patterns.	
	Abdallah Eteleeb, Hunter Moseley, and Eric	Rami Alroobi and Saeed Salem.	
	Rouchka.		
12:00-1:00	Lunch	Women in Bioinformatics	
	Location: Rose Garden	Session Chair: May D. Wang	
4 00 0 00		Location B: Salon 1-3	
1:00-2:30	Paper S		
	Session Chair: Stafana Lanardi	Session S6 (CTB)	
	Location A: Salon 4 & 5	Location B: Salon 1-3	
1.00-1.30	Linconstrained Gene Tree Diameters for Deen	Improving identification of key players in aging via	
1.00 1.50	Coalescence	network de-noising	
	Pawel Gorecki, Jaroslaw Paszek, and Oliver	Boyoung Yoo, Huili Chen, Fazle Faisal, and Tijana	
	Eulenstein.	Milenkovic.	
1:30-2:00	Extracting phylogenetic signals from gene trees	Integrated miRNA and mRNA Analysis of Time	
	and its significance for species tree construction.	Series Microarray Data.	
	Rasha Elhesha, Tamer Kahveci, Gordon Burleigh,	Julian Dymacek and Nancy L. Guo.	
	and Ryan Cobb.		
2:00-2:15	Strand: Fast Sequence Comparison using	Community Detection-based Features for Sequence	
	MapReduce and Locality Sensitive Hashing.	Classification.	
	Jake Drew and Michael Hahsler.	Karthik Tangirala and Doina Caragea.	
2:15-2:30	A Noise-Aware Method for Building Radiation	One Feature Doesn't Fit All: Characterizing	
	Hybrid Maps.	Topological Features of Targets in Signaling	
	Raed Seetan, Anne Denton, Omar Al-Azzam, Ajay	Networks.	
	Kumar, M. Javed Iqbal, and Shahryar Kianian.	Huey-Eng Chua, Sourav S Bhowmick, and Lisa	
2 20 2 45	-	I UCKER-KEllOgg.	
2:30-2:45	Break		

	Paper Session IV		
	Session S7 (BI)	Session S8 (HI)	
	Session Chair: Filip Jagodzinski	Session Chair: Nurit Haspel	
	Location A: Salon 4 & 5	Location B: Salon 1-3	
2:45-3:15	Fast Dendrogram-based OTU Clustering using	A Novel Classification Method for Predicting Acute	
	Sequence Embedding.	Hypotensive Episodes in Critical Care.	
	Thuy Diem Nguyen, Bertil Schmidt, and Chee	Sakyajit Bhattacharya, Vaibhav Rajan, and Vijay	
	Keong Kwoh.	Huddar.	
3:15-3:45	Learning Parameter Advisors for Multiple	icuARM-II: Improving the Reliability of Personalized	
	Sequence Alignment.	Risk Prediction in Pediatric Intensive Care.	
	Dan Deblasio and John Kececioglu.	Chih-Wen Cheng, Nikhil Chanani, Kevin Maher, and	
		May D. Wang.	
3:45-4:00	COuplet Supertree by Equivalence Partitioning of	MotionTalk: Personalized home rehabilitation	
	taxa set and DAG formation.	system for assisting patients with impaired mobility.	
	Sourya Bhattacharyya, and Jayanta	Janani Venugopalan, Chih-Wen Cheng, and May	
	Mukhopadhyay.	Wang.	
4:00-4:15	Approximation Algorithms for Sorting by Signed	SideEffectPTM: An Unsupervised Topic Model to	
	Short Reversals.	Mine Adverse Drug Reactions from Health Forums.	
	Gustavo Rodrigues Galvao and Zanoni Dias.	Sheng Wang, Yanen Li, Duncan Ferguson, and	
		Chengxiang Zhai.	
4:15-4:30	Break		
4:30-6:00	Paper	Session V	
	Session S9 (BI)	Session S10 (HI)	
	Session Chair: Brian Chen	Cossion Chairy Hongtong Liv	
	Location A: Salon 4 & 5	Location B: Salon 1-3	
4:30-5:00	Location A: Salon 4 & 5 Scaled Sparse High Dimensional Tests for	Location B: Salon 1-3 SimConcept: A Hybrid Approach for Simplifying	
4:30-5:00	Location A: Salon 4 & 5 Scaled Sparse High Dimensional Tests for Localizing Sequence Variants.	Location B: Salon 1-3 SimConcept: A Hybrid Approach for Simplifying Composite Named Entities in Biomedicine.	
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Tuesday September 23, 2014				
9:00-10:00	Keynote 3 (HI)			
	The Fractal-Like Architecture of the Learning Health System.			
	Leslie Lenert, Medical University of South Carolina			
	Session Chair: Bruce Schatz			
	Location: Salon 1-5			
10:00-10:30	Br	eak		
10:30-12:00	Industrial Session 2	Translational Bioinformatics Panel		
	Session Chair: Bruce Schatz	Panel Chairs: Orly Alter and May D. Wang		
	Location: Salon 4-5	Location: Salon 1-3		
	Wearable Sensors: Moving from the Quantified	Discovery of Principles of Nature from Matrix and		
	Self to the Understood Self.	Tensor Modeling of Large-Scale Molecular		
	Steven Steinhubl	Biological Data.		
	Director of Digital Health, Scripps Healthcare	Orly Alter, University of Utah		
	Rapid Learning Using Privacy-Preserving	Integrating Data from Discovery Research,		
	Distributed Data-Mining.	Preclinical Studies and Clinical Trials.		
	Balaii Krishnapuram	Matthew J. Brauer, Genentech, Inc.		
	Director of Health Analytics, Siemens Healthcare	Rank-Rank Hypergeometric Overlan (RRHO) Gene		
		Expression Signature Comparison and the Benefits		
		of Cross-Species Analysis.		
		Thomas G. Graeber, UCLA		
		Comprehensive RNA-Seq Data Analysis Pipeline		
		Investigation for Translational Genomics.		
		May D. Wang, Georgia Tech and Emory		
12:00-1:00		PhD Forum		
	Lunch	Location: Cardiff, Del Mar, Laguna, & Sunset Room		
	Location: Seaview Terrace	held in the poster room—continues until 3 PM		
1.00 2.20	Dapar S	assion VI		
1.00-2.50	Paper S Session S11 (HI)	Session S12 (CTB)		
	Session Chair: ChengXiang Zhai	Session Chair: Xiaohui Xie		
	Location A: Salon 4 & 5	Location B: Salon 1-3		
1:00-1:30	Towards a Natural Walking Monitor for Pulmonary	Docking Features for Predicting Binding Loss due to		
	Patients using Simple Smart Phones.	Protein Mutation.		
	Joshua Juen, Qian Cheng, and Bruce Schatz.	Norman Goodacre, Dr. Nathan Edwards, Dr. Mark		
		Danielsen, Dr. Peter Uetz, and Dr. Cathy Wu.		
1:30-1:45	Using Mobile Phones to simulate Pulse Oximeters:	Leveraging Hierarchy in Medical Codes for		
	Gait Analysis predicts Oxygen Saturation	Predictive Modeling.		
	Qian Cheng, Joshua Juen, and Bruce Schatz.	Anima Singh, Girish Nadkarni, John Guttag, and		
1:45-2:00	Are We There Yet? Feasibility of Continuous Stress	Erwin Bottinger.		
	Assessment via Physiological Sensors in Field			
	Md. Mahbubur Rahman, Rummana Bari, Amin			
	Ahsan Ali, Moushumi Sharmin, Andrew Raij, Karen			
	Hovsepian, Syed Monowar Hossain, Emre Ertin,			
	Ashley Kennedy, David H. Epstein, Michelle Jobes,			
	Kenzie L. Preston, J. Gayle Beck, Satish Kedia,			
	Kenneth D. Ward, Mustata Al'Absi, and Santosh			
	Kumar.			

2:00-2:15	Conditional Random Fields for Morphological	A Flexible Volumetric Comparison of Protein
	Analysis of Wireless ECG Signals.	Cavities can Reveal Patterns in Ligand Binding
	Annamalai Natarajan, Edward Gaiser, Gustavo	Specificity.
	Angarita, Robert Malison, Deepak Ganesan, and	Ziyi Guo, Trevor Kuhlengel, Steven Stinson, Seth
	Benjamin Marlin.	Blumenthal, Soutir Bandyopadhyay, and Brian Chen.
2:15-2:30		Knowledge-based Search and Multi-objective
		Filters: Proposed Structural Models of GPCR
		Dimerization.
		Irina Hashmi, Daniel Veltri, Nadine Kabbani, and
		Amarda Shehu.
2:30-3:00	Br	eak
3:00-4:30	Paper S	ession VII
	Session S13 (HI)	Session S14 (CTB)
	Session Chair: Bruce Schatz	Session Chair: Pierangelo Veltri
	Location A: Salon 4 & 5	Location B: Salon 1-3
3:00-3:30	Resolving Healthcare Forum Posts via Similar	Analysing the distribution of synaptic vesicles using
	Thread Retrieval.	a spatial point process model.
	Hyun Duk Cho, Parikshit Sondhi, Chengxiang Zhai,	Mahdieh Khanmohammadi, Rasmus
	and Bruce Schatz.	Waagepetersen, Nicoletta Nava, Jens Nyengaard,
		and Jon Sporring.
3:30-4:00	Automating Risk of Bias Assessment for Clinical	Auomated Ranking of Stem Cell Colonies By
	Trials.	Translating Biological Rules to Computational
	Iain Marshall, Joël Kuiper, and Byron Wallace.	Models.
		Adele Peskin, Steve Lund, Ya-Shian Li-Baboud,
		Michael Halter, Anne Plant, and Peter Bajcsy.
4:00-4:15	Modeling climate-dependent population dynamics	Utilizing twilight zone sequence similarities to
	of mosquito to guide public health policies.	increase the accuracy of protein 3D structure
	Aditya Vaidya, Angel Bravo-Salgado, and Armin	comparison. Aleksandar Poleksic, and Paul Gray.
	Mikler.	
4:15-4:30	A Method for Reducing the Severity of Epidemics	Challenges in Adapting Text Mining for Full text
	by Allocating Vaccines According to Centrality.	Articles to Assist Pathway Curation.
	Krzysztof Drewniak, Joseph Helsing, and Armin	Ravikumar Komandur Elayavilli, Kavishwar
	Mikler.	Wagholikar, and Hongfang Liu.