RECOMB-Seq 2014 – TENTATIVE PROGRAM *Rangos Hall Carnegie Mellon University*

Day 1 (March 31st)

9:00-9:10	Opening Remarks	
Assembly Sess	sion	
9:10-9:30	Paper 1- Romeo Rizzi, Alexandru I. Tomescu and Veli Mäkinen. On the Complexity of Minimum Path Cover with Subpath Constraints for Multi-assembly	
9:30-9:50	Paper 2 - Jintao Meng and Yanjie Wei. SWAP-Assembler: Scalable and Efficient Genome Assembly towards Thousands of Cores	
9:50-10:10	Paper 3 - Ka-Kit Lam, Asif Khalak and David Tse. <i>Near-optimal Assembly for Shotgun Sequencing with Noisy Reads</i>	
10:10-10:30	Paper 4 - James Lindsay, Hamed Salooti, Alex Zelikovsky and Ion Mandoiu. <i>ILP-based Maximum Likelihood Genome</i> <i>Scaffolding</i>	
10:30-11:00	Coffee break	
Emerging Trends Part 1		
11:00-11:20	Paper 5 - Roye Rozov, Ron Shamir and Eran Halperin. <i>Fast Lossless Compression via Cascading Bloom Filters</i>	
11:20-11:40	Select Abstract 2	
11:40-12:10	ET discussion	
12:10-2:00	Lunch/posters	
2:00-3:00	Keynote 1: Cecilia Lo, PhD	
	Professor and Chair F. Sargent Cheever Chair Department of Developmental Biology University of Pittsburgh	
3:00-3:30	Coffee break	
RNA-Seq and Technology		
3:30-3:50	Paper 6 - Jingua Gu, Xiao Wang, Leena Hilakivi-Clarke, Robert Clarke and Jianhua Xuan. <i>BADGE: A novel Bayesian model for</i> <i>accurate abundance quantification and differential analysis of</i> <i>RNA-seq data</i>	
3:50-4:10	Paper 7 - Yan Huang, Yin Hu and Jinze Liu. <i>Piecing the puzzle together: a revisit to transcript reconstruction problem in RNA-Seq</i>	
4:10-4:30	Paper 8 - Zeinab Taghavi. Adaptive Compressed Genome Sequencing Using Depth First Search Strategy	
4:30-6:00	Poster session	

Day 2 (April 1st)

Alignment Session

9:10-9:30	Paper 9 - Matteo Comin and Michele Schimd. Assembly-free Genome Comparison based on Next-Generation Sequencing Reads and Variable Length Patterns	
9:30-9:50	Paper 10 - Milad Gholami, Aryan Arbabi, Ali Sharifi-Zarchi, Hamidreza Chitsaz and Mehdi Sadeghi. ARYANA: Aligning	
	Reads by Yet Another Approach	
9:50-10:10	Paper 11 - Ping Ge, Cuncong Zhong and Shaojie Zhang. ProbeAlign: Incorporating high-throughput sequencing-based structure probing information into ncRNA homology search	
10:10-10:30	Paper 12 - Sunyoung Kwon, Byunghan Lee and Sungroh Yoon. CASPER: Context-Aware Scheme for Paired-End Read from high-throughput amplicon sequencing	
10:30-11:00	Coffee break	
Emerging Trends Part 2		
11:00-11:20	Paper 13 - Anton Polishko, Evelien Bunnik, Karine Le Roch and	

11:00-11:20	Paper 13 - Anton Polishko, Evelien Bunnik, Karine Le Roch and Stefano Lonardi. <i>PuFFIN - A Parameter-free Method to Build</i> <i>Nucleosome Maps from Paired-end Reads</i>
11:20-11:40	Selected Abstract Talk 2
11:40-12:10	ET discussion
12:10-2:00	Lunch/posters
2:00-3:00	Keynote 2: Ben Raphael, PhD
	Associate Professor Department of Computer Science Director of the Center for Computational Molecular Biology Brown University
3:00-3:30	Coffee break
Metagenomics	

3:30-3:50	Paper 14 - Noam D. Beckmann, Sashank Karri, Ali Bashir and Gang Fang. <i>Detecting Epigenetic Motifs in Low Coverage and Metagenomics Settings</i>
3:50-4:10	Paper 15 - Stephen Johnson, Brett Trost, Jeffrey Long, Vanessa Pittet and Anthony Kusalik. <i>A better sequence-read simulator</i> <i>program for metagenomics</i>
4:10-4:30	Paper 16 - Wazim Mohammed Ismail, Yuzhen Ye and Haixu Tang. <i>Gene finding in metatransciptomic sequences</i>
4:30-4:50	Closing Remarks
4:50-6:00	Poster session