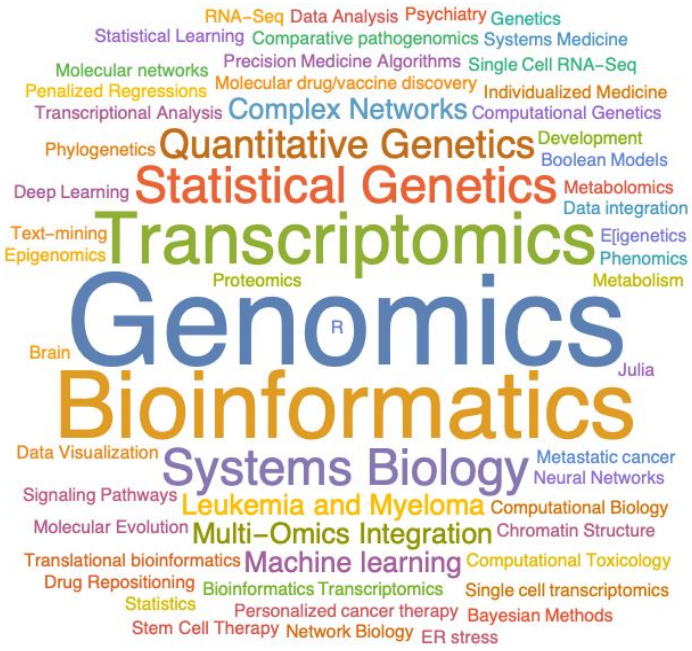
CoCoH 2019

Aug 27, 2019
Secchia Center, Rm 120, Grand Rapids, MI

Sponsored by:

- ***MSU College of Human Medicine***
- ***MSU College of Natural Science***
- ***Spectrum Health***
- ***Institute for Quantitative Health Science and Engineering (IQ)***



8:30 am	**9:15 am**	**Registration & Poster set-up**
9:15 am	9:25 am	Welcome & Opening remarks
9:25 am	9:40 am	**Keynote 1: Keith English (MSU)**
Session 1: 9.40am-10.40 am (12 min talks + 3 min Q & A)		
9:40 am	9:55 am	Short talk 1.A **George Mias (MSU/IQ)** *Omics, Individualized Medicine and Detecting Adverse Events in Deep Space Missions*
9.55	10.10	Short talk 1.B **Janani Ravi** *An integrative computational evolutionary approach to accelerate the discovery of molecular targets in prevalent under-studied pathogens*
10.10	10.25	Short talk 1.C **Jeremy Prokop** *Building Precision Medicine Tools with Helen DeVos Children's Hospital*
10.25	10.40	Short talk 1.D **Carlo Piermarocchi** *Neural network models of cell dynamics in normal and hematological cancer cells*
10:40 am	11:00 am	Break
Session 2: 11am-12 pm (12 min talks + 3 min Q & A)		
11:00 am	11.15	Short talk 2.A **Arjun Krishnan** *Machine learning for fast and accurate for network-based gene classification*

11.15	11.30	Short talk 2.B **Sudin Bhattacharya** *Predictive models of gene regulatory networks in health and disease*
11.30	11.45	Short talk 2.C **Gustavo de los Campos** *Powerful & Safe: Bayesian Models & Decision Rules for GWA analyses with Big Data*
11.45	12.00	Short talk 2.D **Yuehua Cui** *High-dimensional mediation analysis in (epi)genomics studies*
Noon	2:00 pm	**Lunch (Boxed Lunch Provided) + Poster Session**
2:00 pm	2:30 pm	**Keynote 2: Surender Rajasekaran (HDVCH)** *Pediatric Multi-Organ Dysfunction Syndrome: A Sequence of Unfortunate Events*
Session 3: 2.30-3.30 pm (12 min talks + 3 min Q & A)		
2:30 pm	2:45 pm	Short talk 3.A **Ana Vazquez** *Integrating Whole Genome Omics to Understand Cancer*
2.45 pm	3.00 pm	Short talk 3.B **Yuying Xie** *Predicting Plant Stress Responses Using Deep Neural Network*
3.00 pm	3.15 pm	Short talk 3.C **Adam Alessio** *Where Artificial Intelligence Meets Quantitative Imaging Biomarkers*
3.15 pm	3.30 pm	Short talk 3.D **Bin Chen** *Harnessing big omics data and artificial intelligence to guide therapeutic discovery*
3:30 pm	4:45 pm	**Research Speed-dating**
4:45 pm	5:00 pm	Break
5:00 pm	5:30 pm	**Keynote 3: Hui Shen (VAI)** *'Global' DNA Hypomethylation: where, when and why*
5:30 pm	5:40 pm	Closing remarks
5:40 pm	8:00 pm	**Reception Mixer in Secchia**