Image-Based Profiling: A Powerful and Challenging New Data Type

Monday January 3, 2022 Plaza Ballroom 1:30 - 4:30 PM

Organizers:

Gregory P. Way, Hannah Spitzer, Philip Burnham, Arjun Raj, Fabian Theis, Shantanu Singh, Anne E. Carpenter

1:30 - 1:40

Welcome Gregory P. Way

University of Colorado Anschutz

1:40 - 2:00

Introduction to image-based profiling Niranj Chandrasekaran

Broad Institute of Harvard and MIT

2:00 - 2:20

Image-based cell phenotyping with deep Juan C. Caicedo

learning Broad Institute of Harvard and MIT

2:20 - 2:40

Challenges and opportunities in the Paula Andrea Marin Zapata

analysis of image-based profiling data Bayer

2:40 - 2:55 **Break**

2:55 - 3:15

Mapping biology with a unified representation space for genomic and chemical perturbations to enable

accelerated drug discovery

Imran Haque Recursion

3:15 - 3:35

Integrated intracellular organization and Susanne Rafelski

reorganization of the human stem cell Allen Institute for Cell Science

3:35 - 4:05

5 selected speakers, 6 minutes each Lightning talks

4:05 - 4:30 All invited speakers

Panel discussion