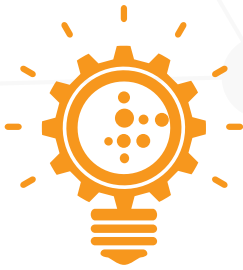


INNOVATOR AWARD PROGRAM

Overview



ISB was built on the core value of collaboration and a vision for inventing the future for human health and environmental sustainability. Accordingly, we have created the Innovator

Award Program to stimulate creativity, innovation and collaboration among our researchers so we can continue to pioneer scientific breakthroughs. This internal program is designed to support innovative research ideas that cut across disciplines and research groups. Through this program, highly motivated researchers from within ISB will have an opportunity to apply for a one-year funding award that will support high-risk, high-reward projects.

Details

- The funding duration for this award is one year.
- A total of \$150,000 is available to fund up to three innovative projects that have the potential to be transformational in addressing critical scientific challenges or impediments.
- Projects that address challenges in the focus areas below and support interactions between research groups will be given priority.
- To be eligible, applicants must be ISB employees.

Focus Areas

The four focus areas for 2018-19 are:



NOVEL EXPERIMENTAL SYSTEMS

Developing a tractable model system to investigate complex phenomena and testing hypotheses/predictions that come out of systems-driven approaches/models. For example: Host-pathogen interaction systems, animal models, etc.



THERAPEUTICS/INTERVENTIONS

Model-driven discovery of modulators of complex phenotypes. For example: Disease states, stable/unstable ecosystem states, physiological state of microbial communities, drug resistance, drug tolerance, etc.



DIAGNOSTICS

Model-driven discovery of diagnostic biomarkers. For example: Pre-symptomatic blood/microbiome signatures for diseases, signatures for resilience for systems stability



TRACKING SPATIOTEMPORAL HETEROGENEITY

Imaging, tracking, and sorting complex cell populations to understand heterogeneity in disease and environment

2017 Award Recipients



Chris Lausted

Detection and Sequencing of Double Minute Episomes in Chemotherapy Resistance

SINGLE-CELL ANALYTICS



Eliza Peterson, PhD

Detection and Sequencing of Double Minute Episomes in Chemotherapy Resistance

INTERACTOMICS



Joseph Zhou, PhD

A Novel Technique to Monitor Single-Cell Transcriptome over Time Using Barcoding

SINGLE-CELL ANALYTICS