

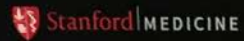
Discovery Innovation Awards **Creative**



invitation outside
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


invitation inside



discovery innovation awards

2017

one discovery  can have an exponential impact on human health

Stanford Medicine's Discovery Innovation Awards support early-stage research that could exponentially accelerate our understanding of human biology—and our ability to predict, prevent, and cure disease.

Come celebrate the winners of these competitive research grants, hear fascinating flash talks about their science and its implications, experience interactive lab exhibits, and mingle with some of the brightest minds in biomedicine.

tuesday | march 13 | 6-8 pm

6:00 p.m. | reception + heavy appetizers
6:30 p.m. | program begins

Paul and Mildred Berg Hall
Li Ka Shing Center for Learning and Knowledge
291 Campus Drive | Stanford

welcome by Lloyd B. Minor, MD, Dean, Stanford University School of Medicine
introduction by Roger Kornberg, PhD, Nobel Laureate, Professor of Medicine
flash talks by Discovery Innovation Award winners
interactive lab exhibits + mingle with faculty and graduate students

RSVP by March 2 to Nikki Mancini at 650.725.0644 or events@med.stanford.edu. For more information on flash talk speakers and exhibitors, please visit us online at onediscovery.stanford.edu.


invitation
(electronic version)



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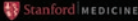
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email reminder




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2017 DISCOVERY INNOVATION AWARDS




Don't miss some of the brightest minds in biomedicine. RSVP today!


speakers



LLOYD B. MINOR, MD
Carl and Elisabeth Naumann Dean
Stanford University School of Medicine
Welcome




ROGER KORNBERG, PhD
Nobel Laureate and Professor of Medicine
Introduction




ANNE BRUNET, PhD
Reading Each Cell's Signature

Anne is developing new methods to see, on a cell-by-cell basis, how genes are packaged in a structure called chromatin. Reading individual chromatin "signatures" could transform cancer research by allowing us to identify the cell of origin for a particular cancer. It could also accelerate regenerative medicine by helping us find stem cells hidden in heart or spinal cord tissue.




RHJU DAS, PhD
Online Gaming to Fight Disease

Rhiju is engineering RNA molecules to fight disease. He and his colleagues designed an online video game called *Eterna* that challenges players to find new ways to fold RNA molecules and hundreds of thousands of players have created thousands of variations. His lab is synthesizing, testing, and refining these methods to create "smart" RNA medicines that will disrupt the progression of infectious diseases or serve as early-warning signals.



DAVID SCHWIEDER, PhD
Predicting Recovery

David studies infections and the ways we recover from them. He's developing new models to determine when patients are likely to recover on their own and when they will need intervention. Just before a patient gets very sick, his or her health will undergo rapid and subtle fluctuations. Schwieder's work focuses on identifying these fluctuations so doctors can intervene as early as possible.



WILL TALBOT, PhD
Learning How Zebrafish Regenerate Nerves

Will studies glial cells which create the insulating layer around nerves, defend against infection, and influence how the nervous system functions. His research with zebrafish, which can regenerate nerves after spinal cord injury, may explain why we can't do the same. If his team can explain the molecular mechanisms that allow these transparent creatures to regrow damaged nerves, it could revolutionize the treatment of spinal cord injuries and care for patients with MS and autism.

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program cover
(4"x9" unfolds to 8"x18")

2017 DISCOVERY INNOVATION AWARDS

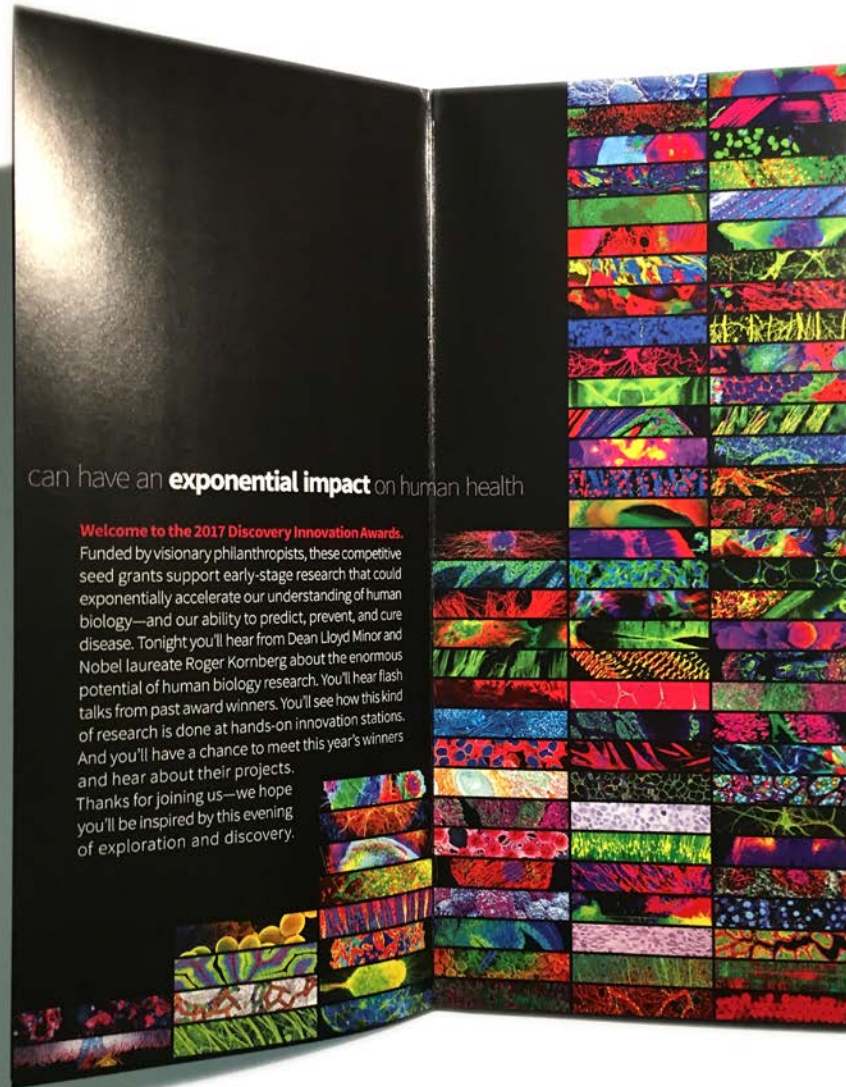
one discovery



program inside
(first reveal)

can have an **exponential impact** on human health

Welcome to the 2017 Discovery Innovation Awards. Funded by visionary philanthropists, these competitive seed grants support early-stage research that could exponentially accelerate our understanding of human biology—and our ability to predict, prevent, and cure disease. Tonight you'll hear from Dean Lloyd Minor and Nobel laureate Roger Kornberg about the enormous potential of human biology research. You'll hear flash talks from past award winners. You'll see how this kind of research is done at hands-on innovation stations. And you'll have a chance to meet this year's winners and hear about their projects. Thanks for joining us—we hope you'll be inspired by this evening of exploration and discovery.



program inside

(second reveal)

welcome



Lloyd B. Minor, MD
Chair and President, National Dimes
Jefferson University School of Medicine

introduction



Roger Kornberg, PhD
2006 Nobel Laureate
Mrs. George A. Wilson Professor of Medicine

flash talks* + innovation stations

1

*** Will Talbot, PhD** | Senior Associate Dean and Professor of Developmental Biology

Learning How Zebrafish Regenerate Nerves | Will studies glial cells, which create the insulating layer around nerves, defend against infection, and influence how the nervous system functions. His research with zebrafish, which can regenerate nerves after spinal cord injury, may explain why we can't do the same. If his team can explain the molecular mechanisms that allow these transparent creatures to regrow damaged nerves, it could revolutionize the treatment of spinal cord injuries and care for patients with MS and autism.



2

*** Anne Brunet, PhD** | Michele and Timothy Baskett Professor of Genetics

Reading Each Cell's Signature | Anne is developing new methods to see, on a cell-by-cell basis, how genes are packaged in a structure called chromatin. Reading individual chromatin "signatures" could transform cancer research by allowing us to identify the cell of origin for a particular cancer. It could also accelerate regenerative medicine by helping us find stem cells hidden in heart or spinal cord tissue.



3

*** Rhiya Das, PhD** | Associate Professor of Biochemistry

Online Gaming to Fight Disease | Rhiya is engineering RNA molecules to fight disease. He and his colleagues designed an online video game called Eterna that challenges players to find new ways to fold RNA molecules and hundreds of thousands of players have created thousands of variations. His lab is synthesizing, testing, and refining these methods to create "smart" RNA medicines that will disrupt the progression of infectious diseases or serve as early-warning signals.



4

*** David Schneider, PhD** | Professor of Microbiology and Immunology

Predicting Recovery | David studies infections and the ways we recover from them. He's developing new models to determine when patients are likely to recover on their own and when they will need intervention. Just before a patient gets very sick, his or her health will undergo rapid and subtle fluctuations. David's work focuses on identifying these fluctuations so doctors can intervene as early as possible.



5

Miriam Goodman, PhD | Professor of Molecular and Cellular Physiology

Saving the Sense of Touch | Miriam studies touch—the first of our senses to develop, the last to fade, and the least understood. For cancer patients, chemotherapy can damage the nervous system causing numbness and pain that can be as bad, or worse, than that caused by the cancer itself. Miriam is testing an existing anti-inflammatory drug to save the sense of touch in cancer patients.



6

Abby King, PhD | Professor of Health Research and Policy (Epidemiology) and of Medicine

Harnessing Technology and Citizen Science for Healthy Living | Abby studies the impacts of personal, social, and environmental factors on individual and community health. By distributing a tablet-based research tool to citizen scientists in underserved communities, she's giving residents the ability to collect and share information about barriers to healthy lifestyles so they can use that information to drive local improvements. Her goal is to provide everyone—regardless of language, culture, or socioeconomic circumstances—a way to connect with each other to promote health and wellbeing.



7

Jennifer Raymond, PhD | Professor of Neurobiology

Discovering How the Brain Learns | Jennifer studies how our brains acquire, store, and retrieve information about the world around us. She analyzes the decisions that each synapse makes from moment to moment so she can better understand how a neural circuit learns and improves its performance. Her research may lead to adaptive technologies and new strategies for treating memory, learning, and movement disorders.



8

Anne Villeneuve, PhD | Professor of Developmental Biology and of Genetics

Detecting Altered Genomes | Anne investigates how chromosomes are faithfully inherited from one generation to the next by using the tiny transparent roundworm *C. elegans* as a means to accelerate discovery of fundamental mechanisms. She is developing streamlined methods for detecting genome rearrangements, which may aid in understanding the basis of genomic diseases and lead to improved diagnostics for neurological/psychiatric conditions resulting from recurrent genome rearrangements.

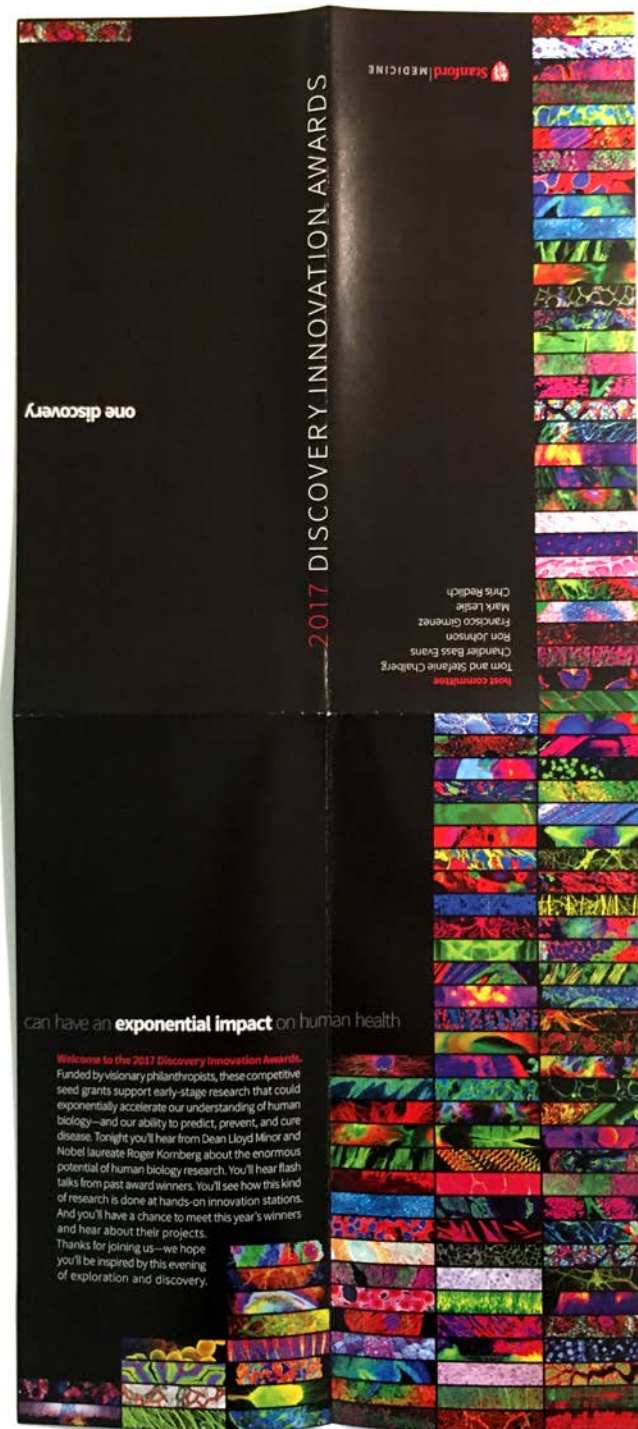


9

2017 Discovery Innovation Award Winners

Visit station nine to meet this year's winners and learn about their winning projects.

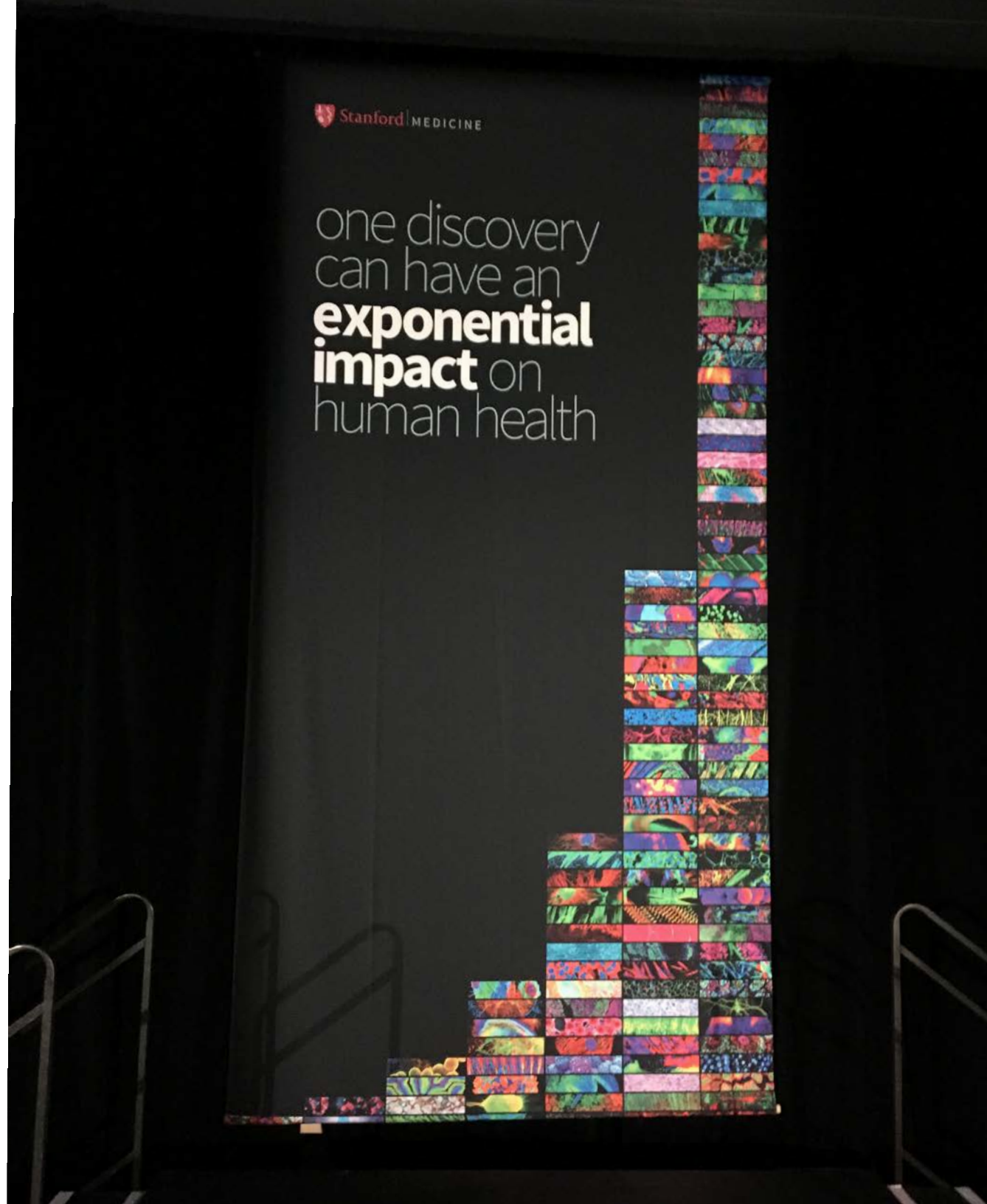
program back



lanyards



stage backdrop



keynote



audience



catering



flash talks

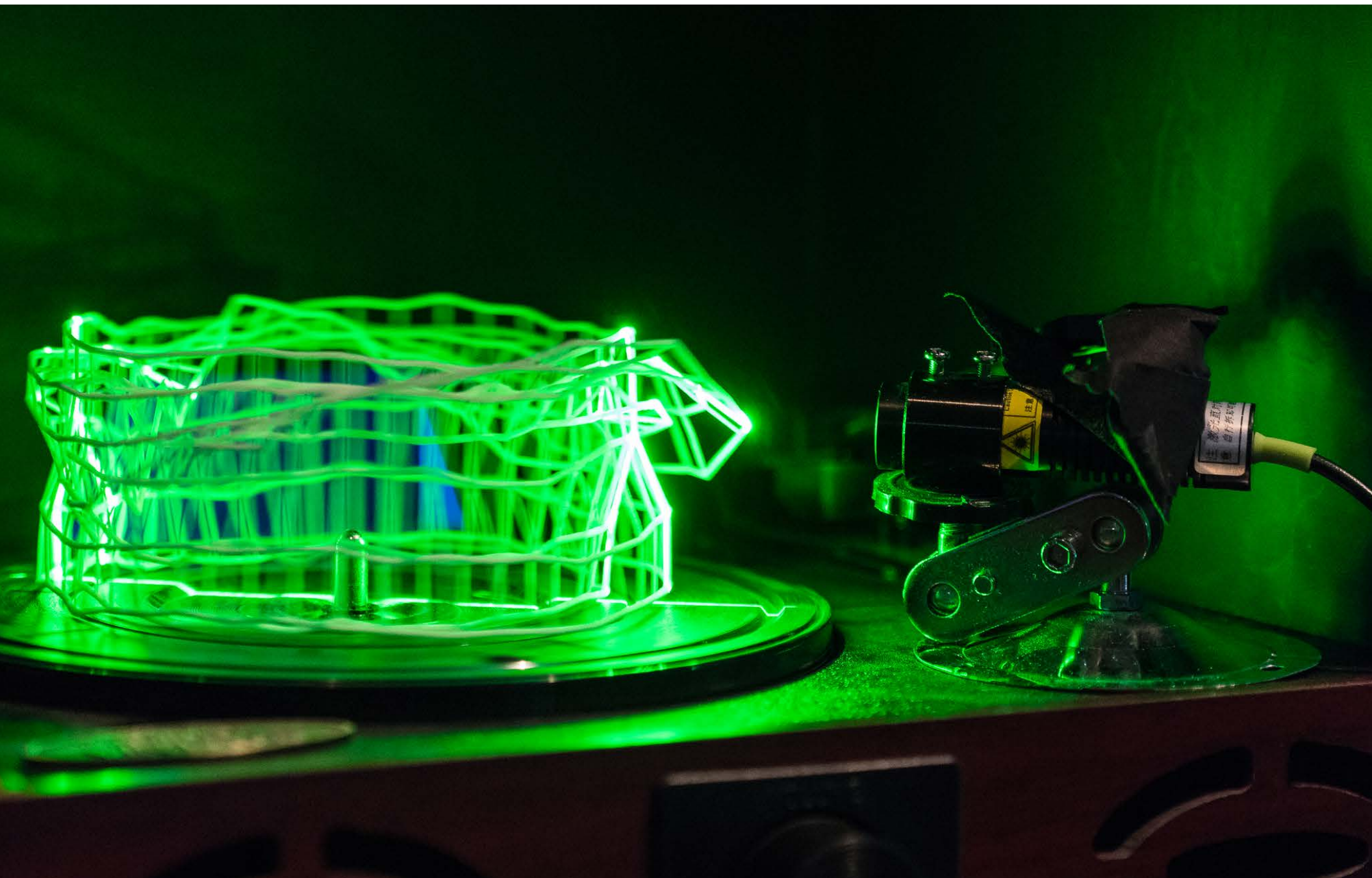


innovation stations



innovation station







innovation station



our faculty lead (with zebrafish)

