Discovery Innovation Awards **Creative**

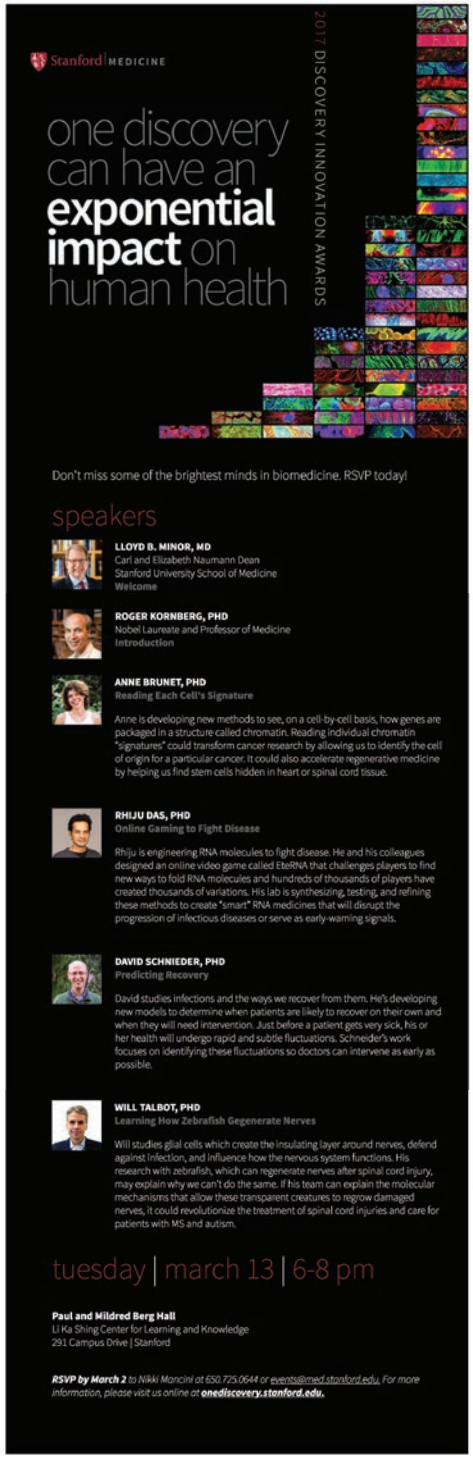
invitation outside

(9.25”x 9.25” unfolds to 9.25”x 18.25”)

invitation inside

invitation
(electronic version)

email reminder



program cover
(4”x 9” unfolds to 8”x 18”)

program inside
(first reveal)

program inside
(second reveal)

welcome

Lloyd B. Minor, MD
Carl and Elizabeth Naumann Dean
Stanford University School of Medicine

introduction

Roger Kornberg, PhD
2006 Nobel Laureate
Mrs. George A. Winzer Professor in 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 Barakett 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 ★ **Rhiju Das, PhD** | Associate Professor of Biochemistry

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.

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**

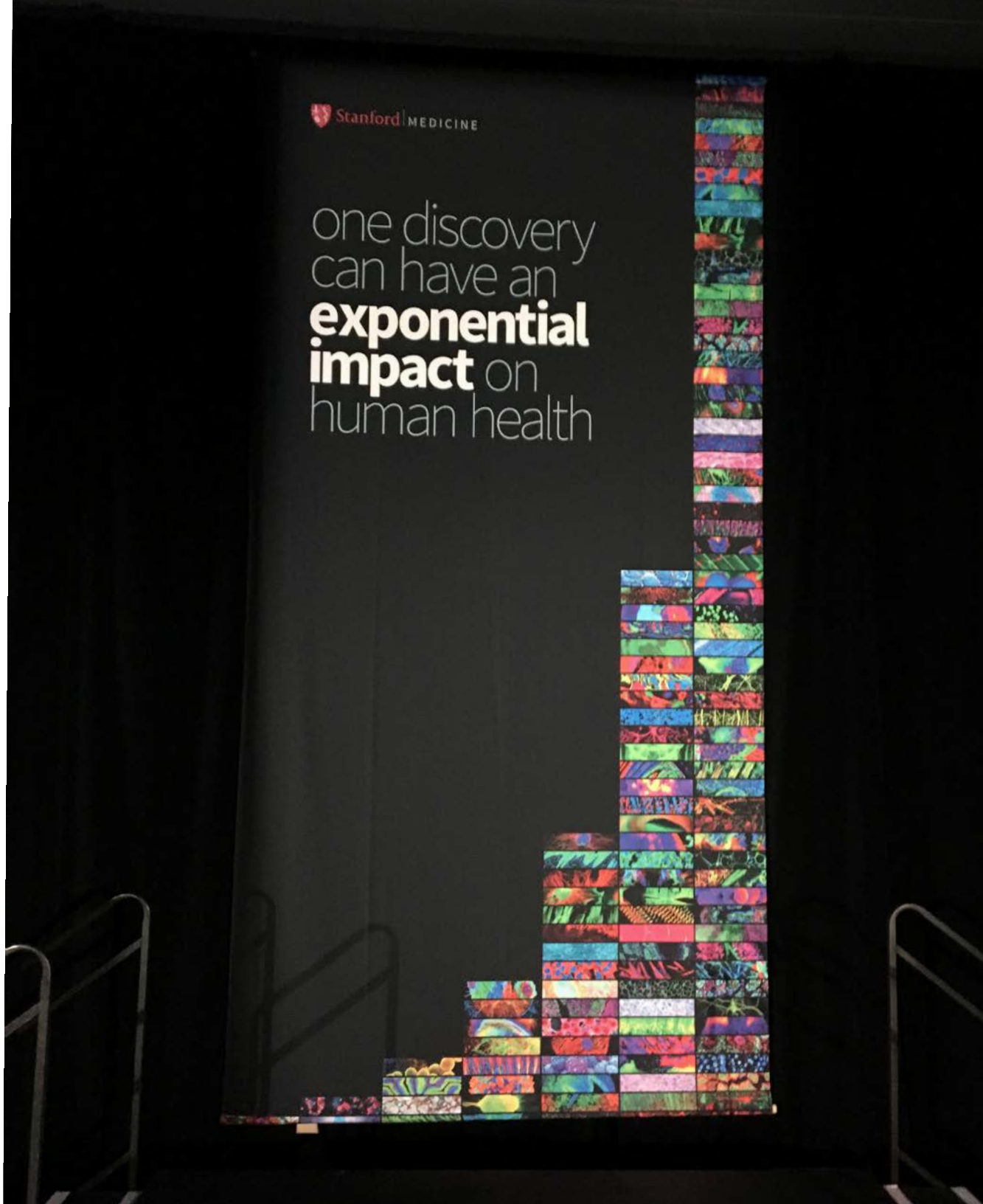
Visit station nine to meet this year's winners and learn about their winning projects.

program back

lanyards


2017 WINNER
+ STATION 9
Tobias Meyer
PhD
Aaron Straight
PhD
Jin Billy Li
PhD
Julia Fridman Simard
ScD
Ted Jardetzky
PhD
Laurence Baker
PhD
Michael Lin
MD PhD
Stephen Felt
DVM

stage backdrop



keynote


Roger Kornberg, PhD
Mrs. George A. Winzer Professor of Medicine
Nobel Laureate, Chemistry 2006
one discovery
can have an
exponential
impact on
human health

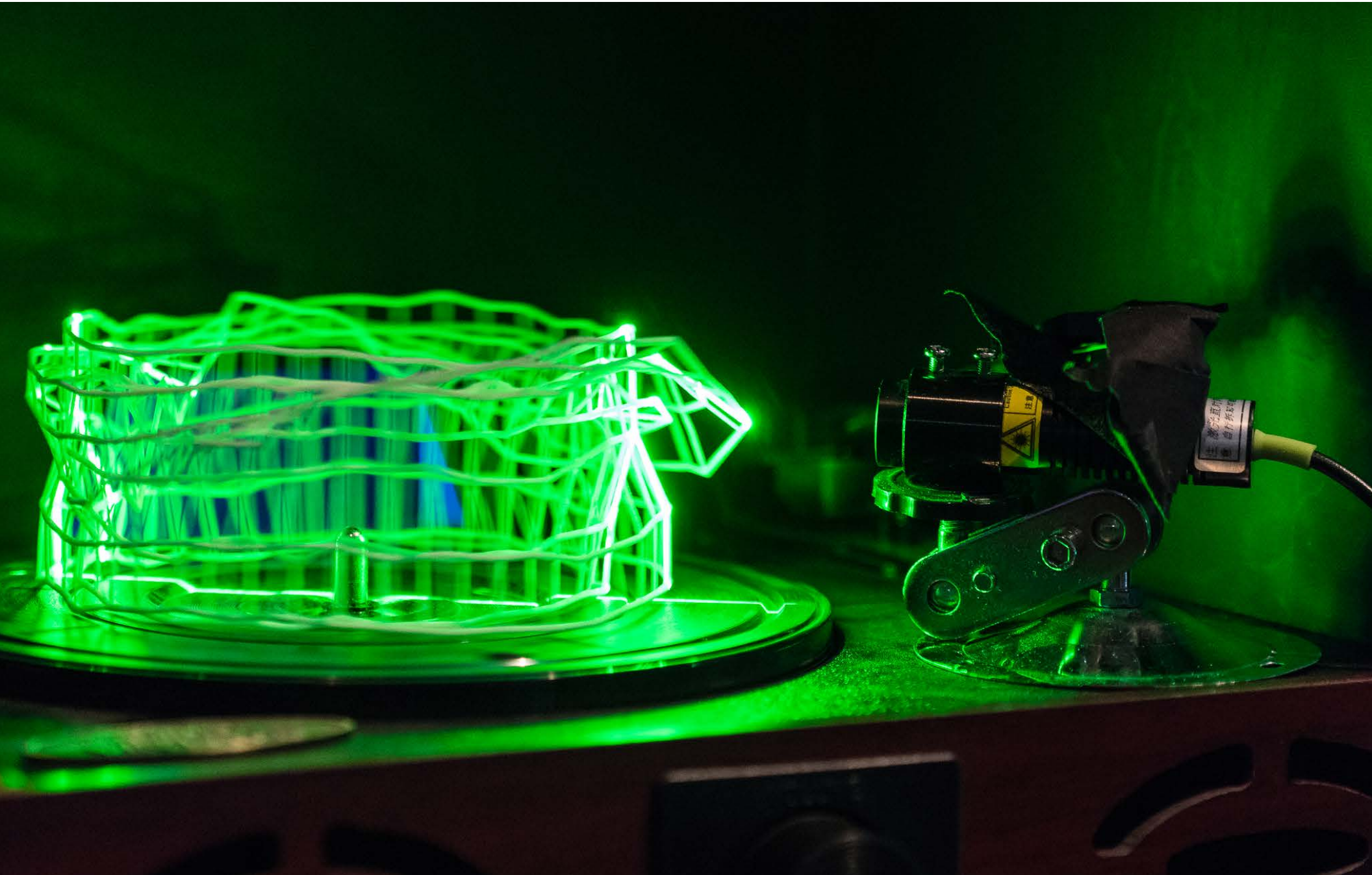
audience

catering

flash talks

innovation stations

innovation station



innovation station

innovation station

our faculty lead (with zebrafish)