

School of Biological Sciences

Spring 2016



THE LECTURE SERIES AND ITS PURPOSE

The R. Omar and Evelyn Rilett Family Life Sciences Lecture Series was established in April 2007. It recognizes Dr. Rilett's vision and leadership, which built a Department of Biological Sciences at Illinois State University that advanced education in the natural sciences, fostered scholarly endeavors, and nurtured the development of research to the benefit of all who chose to teach and learn at this institution. The purpose is to bring outstanding life scientists and lectures to Illinois State University to benefit academic and local communities.

School of Biological Sciences

presents

The R. Omar and Evelyn Rilett Family Life Sciences Lecture Series

Co-Sponsored by the
School of Biological Sciences, Phi Sigma, and
Provost Office at Illinois State University

Dr. David Schneider



**Associate Professor
Department of Microbiology & Immunology
Stanford University**

**April 14, 2016 at 6:00pm
Prairie Room, Bone Student Center
Illinois State University**

LECTURE SERIES PROGRAM

WELCOME AND HISTORY OF LECTURE SERIES

Dr. Craig Gatto

Director, School of Biological Sciences

INTRODUCTION OF SPEAKER

Dr. Nate Mortimer

School of Biological Sciences

PRESENTATION

Warping disease space to improve recovery from infections

When we get sick, we long for recovery; thus a major goal of medicine is to promote resilience – the ability of a host to return to its original health following an infection. While in the laboratory we can study the response to infection with precise knowledge of inoculation time and dose, sick patients in the clinic do not have this information. This creates a problem because we can't easily differentiate between patients who are in the early stages of infections that will develop severe disease from more disease-tolerant patients who present later in the infection. To determine where patients lie along the infection timeline, we chart "disease maps" that trace a patient's route through "disease space. We are trying to develop these maps as ways of both teaching us which patients might do poorly and to show us why those patients are doing poorly.

Dr. David Schneider

Dr. Schneider's group concentrates on the quantitative analysis of sickness during infections. They try to find correlations between pathogen growth, the immune response and health that lead to the discovery of new parameters that can be used to manipulate outcomes. They are particularly interested in defining the path we take as we recover from infections.

Academic Appointments:

- Associate Chair, Department of Microbiology & Immunology, Stanford University, 2013-current.
- Associate Professor, Stanford University, 2008-current.
- Graduate Program Director, Stanford University, 2007-2013.
- Assistant Professor, Stanford University, 2001-2008.

Education:

- B.S., University of Toronto, 1986.
- Ph.D., University of California, Berkeley, 1992.

Awards and Honors:

- Mangelsdorf Distinguished Lecture Speaker, University of North Carolina, 1999.
- Award for New Scholars in Global Infectious Disease, Ellison Medical Foundation, 2002.
- Award for Senior Scholars in Aging, Ellison Medical Foundation, 2008.
- NIH Director's Pioneer Award, NIH, 2011.
- Faculty Mentor of the Year, Stanford Immunology Program, 2011.
- Altemeir Lecture, Surgical Infection Society, 2014.
- Excellence in Teaching Award, Stanford School of Medicine, 2014.
- Associate Editor: PLOS Biology, PLOS Pathogens, Journal of Innate Immunity, Cell Reports.