Discovery Talks

Bringing Research to the Community
Infectious diseases are a leading cause of mortality worldwide and a major threat to our food supply and natural resources. Ohio State has made the prevention, detection and management of infectious diseases a priority.

Here’s where we can help you...

Leading Ohio State researchers are available to explain how our research is contributing to discoveries and real-world solutions, and what you can do to help this cause.

Your organization pays nothing and we send our experts to give educational TED-style talks.

Schedule a speaker by contacting our team at discoverytalks@osu.edu.

Learn more by previewing a sampling of our speaker topics. See the attached biosketches or view a video clip montage at: go.osu.edu/discoverytalks.

Together, we can we can make an impact on this global challenge.

Sincerely,

Discovery Talks Administrator
Infectious Disease Discovery Theme
614.292.3981 l discoverytalks@osu.edu

This program is part of the Discovery Themes Initiative, Ohio State’s commitment to invest in the people and resources needed to address the critical issues of the 21st century, and a natural evolution of its land-grant tradition.
Our Talks

**When vaccines and drugs don’t work, what's next for influenza?**
*Ian Davis, BVSc (hons), PhD*

**How does the movement of cattle in Cameroon relate to the spread of the common cold?**
*Rebecca Garabed, VMD, MPVM, PhD*

**How dangerous is giving antibiotics just in case?**
*Debra A. Goff Pharm.D., FCCP*

**Bacterial biofilms, why some infections just won’t go away**
*Luanne Hall-Stoodley, PhD*

**How can we keep your mouth from making your heart sick?**
*Samantha J. King, PhD*

**How do we intervene on the farm to enhance the safety of our food supply?**
*Jeffrey T. LeJeune, PhD*

**What’s the next generation of vaccine development?**
*Stefan Niewiesk, DVM, PhD, DECLAM*

**How does understanding viruses and microbes help save the earth and cure your ailments?**
*Matthew B. Sullivan, Ph.D*

**Why are we more likely to find the cure when we’re not looking for it?**
*Joanne Turner, PhD*
When vaccines and drugs don’t work, what’s next for influenza?

If the 1918 influenza pandemic were to happen today, an estimated 200 million people could die. Vaccine manufacturers strive to determine how to prevent a global flu outbreak as viruses evolve every year. Learn the potential impact of a pandemic on our society, the challenges of our current vaccine distribution system and what’s next for influenza when vaccines and drugs don’t work. Explore with Dr. Davis how the flu affects our respiratory system, and ways his research may help the seriously-infected breathe easier without the need to go to the hospital. Discover how this research may assist in future flu treatment and possibly answer this global health problem.

About Ian Davis, BVSc (hons), PhD

Since 2001, Dr. Davis’ primary research focus has been on the pathophysiologic effects of pulmonary viral infections. Over the past 10 years he has extended these studies to focus on development of new therapeutics for viral acute lung injury, the pathogenesis of viral exacerbations of asthma and cystic fibrosis, and the effects of viral infections on lung mechanics and pulmonary responses to B-adrenergic agonists and glucocorticoids. This research program has resulted in funding awards from the Parker B. Francis Families Foundation, National Center for Research Resources, the American Lung Association, the American Heart Association, the Cystic Fibrosis Foundation, The National Institute of Allergy and Infectious Diseases, and The National Heart, Lung, and Blood Institute. Dr. Davis is actively involved in peer review for the American Heart Association, National Institutes of Health, and the Department of Defense. He currently serves on two journal editorial boards, and reviews for multiple other journals.

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More About Ian Davis, BVSc (hons), PhD

Education

- Bachelor of Anatomical Science (with honours), University of Bristol, Bristol, England (1989)
- Bachelor of Veterinary Science (with honours), University of Bristol, Bristol, England (1992)
- Ph.D., Pathology, University of Alabama at Birmingham, Birmingham, Alabama (2000)

Academic Appointments

- Predoctoral Fellow, Department of Comparative Medicine, University of Alabama at Birmingham, Birmingham, Alabama (1995 – 2000)
- Research Instructor, Department of Comparative Medicine, University of Alabama at Birmingham, Birmingham, Alabama (2000 – 2002)
- Research Instructor, Department of Anesthesiology, University of Alabama at Birmingham, Birmingham, Alabama (2002 – 2003)
- Research Assistant Professor, Department of Anesthesiology, University of Alabama at Birmingham, Birmingham, Alabama (2003 – 2006)
- Assistant Professor, Department of Veterinary Biosciences, The Ohio State University, Columbus, Ohio (2006 – 2012)
- Associate Professor, Department of Veterinary Biosciences, The Ohio State University, Columbus, Ohio (2012 – present)

Selected Publications


How does the movement of cattle in Cameroon relate to the spread of the common cold?

The relationship between the spread of infectious disease and traveling may seem far distant to us, but by understanding our travel patterns here and now may prevent illness in the future. Hear Dr. Garabed explain that through researching the characteristics of cattle movement, we can better forecast outbreaks of foot-and-mouth disease, a human pandemic and even the common cold. Visit the far north province of Cameroon and learn the results of Dr. Garabed’s 10 years of research on the categorized movement of cattle. See simulated computer mapping results on how disease travels in waves and what that means to our everyday life. Explore with Dr. Garabed how our transportation patterns of food, fuel and other materials can affect the spread of infectious disease, and by understanding these patterns how we can help prevent the common cold.
More About Rebecca Garabed, VMD, MPVM, PhD

Professional Training and Experience

- PhD, Epidemiology, University of California, Davis
- Master of Preventive Veterinary Medicine, University of California, Davis
- VMD, Food Animal Medicine, University of Pennsylvania
- BS, Animal Bioscience, Penn State University

Professional Service

- Member, American Veterinary Medical Association
- Member, American Association of Veterinary Laboratory Diagnosticians
- Member, Ohio Veterinary Medical Association

Publications

Peer Reviewed Articles (partial listing)


Discovery Talks

How dangerous is giving antibiotics “just in case”?

When Sir Alexander Fleming discovered the first antibiotic, penicillin, in 1942, he forewarned that if we misuse, overuse or abuse this miracle drug, bacteria would begin to mutate and become stronger. Today, if we continue to prescribe or take antibiotics “just in case,” it is projected that superbugs could kill 10 million people by 2050 — more than cancer and auto accidents combined. Travel with Dr. Goff to South America, Vietnam, Africa and Columbus, Ohio where she identifies real-life cases of death caused by antibiotic resistance. Learn how superbugs are spawned through antibiotics that kill susceptible bacteria, yet leave behind mutants that multiply and spread rapidly. 33% of antibiotics are prescribed in error. 30% are prescribed unnecessarily or “just in case.” Physicians, caregivers, pharmacists and laypersons alike will hear real-life scenarios on how they can become “antibiotic stewards” and be a part of the solution to help stop a superbug epidemic in the future.

Presented by:

Debra A. Goff, Pharm.D., FCCP
Clinical Associate Professor
College of Pharmacy
The Ohio State University

One Health Antibiotic Stewardship Program Director of Clinical Research
The Ohio State University Wexner Medical Center

Watch Debra’s Talk

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More About Debra A. Goff Pharm.D., FCCP

Academic Background

- Clinical Pharmacy Residency, University of Illinois at Chicago (1982-1983)
- Doctor of Pharmacy, University of Illinois at Chicago (1980-1982)
- Bachelor of Science in Pharmacy, University of Illinois at Chicago (1976-1980)

Presentations

Dr. Goff has presented at over 200 national & international conferences between 1984 to present. The following are conferences at which she presented during 2016:

- ASM Microbe 201. Boston MA: Meet-the-Experts Session. How to Change the Reporting of Microbiology Results to Improve Antibiotic Prescribing (June 17, 2016)

Publications

Peer Reviewed Articles (2016 only)


Pretoria, South Africa (Feb 9, 2016)
Safako Makgatho University International Collaboration between Colleges of Pharmacy and Antimicrobial Stewardship

Johannesburg, South Africa (Feb 6-7, 2016)
Infectious Diseases National Conference Management of C difficile infection

Lucca (Barga), Italy (March 13-18, 2016)

Sao Paulo, Brasil (April 2, 2016)
XVI Workshop de Resistência Bacteriana
Traduzindo a informação microbiológica para beira do leito.
Discovery Talks

Bacterial biofilms: why some infections just won’t go away

Five out of six children get an ear infection before the age of 5. Why do ear infections frequently return in spite of repeated antibiotic treatment? Join Dr. Hall-Stoodley as she explains how antibiotics primarily work against rapid growing cells and may fail against slow growing aggregates of cells known as bacterial biofilms. Discover how biofilms create infections that “won’t go away”, and the clinical reason behind it. Learn why antibiotic treatment alone is not the silver bullet we once thought. Explore how her research is approaching these infections in a different way by detecting molecular signals that control the growth rate of bacteria in biofilms to make antibiotic treatment more effective.

Presented by:
Luanne Hall-Stoodley, PhD
Associate Professor
Department of Microbial Infection and Immunity
The Ohio State University

Watch Luanne’s Talk

About Luanne Hall-Stoodley, PhD
Dr. Hall-Stoodley has published over 48 research articles, reviews and book chapters in both clinical and academic journals and has presented her work to a variety of academic and clinical international audiences. Her research focuses on translational approaches that improve diagnosis and treatment of long-lasting infections including chronic otitis media, rhinosinusitis and respiratory infections associated with lung diseases such as cystic fibrosis (CF). Recently she has focused on understanding biofilm development by two respiratory pathogens, Streptococcus pneumoniae and Mycobacterium abscessus and how they persist in individuals with chronic ear infections or in CF lung disease. With collaborators at Ohio State and Nationwide Children’s Hospital, she is investigating biofilm development to better understand the mechanisms of antibiotic resistance and host persistence to improve treatment strategies for these challenging infections.

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More About Luanne Hall-Stoodley, PhD

Professional Background

- Bachelor of Arts - History and Philosophy - St. Olaf College in Northfield, MN (1981)
- Doctorate - Department of Immunology and Microbiology - Montana State University—Bozeman (1995)
- Post-doctoral Fellowship - Wellcome Trust Research Department of Biological Sciences - Exeter University, UK (1999)

Publications

Peer Reviewed Articles (selected listing only)


Discovery Talks

How can we keep your mouth from making your heart sick?

Poor oral health can lead to many diseases including cancer, diabetes, osteoporosis, stroke and heart disease. Infective endocarditis is a bacterial infection on the lining of the heart, typically the heart valve. This infection causes a growth on the valve which makes it impossible for the heart to function properly. Join Dr. King as she explains how infective endocarditis is caused primarily by poor oral health, specifically gum disease, resulting in 40,000 – 100,000 of cases every year. Learn how bacteria attached to platelets act as a Trojan Horse to cause this serious heart disease. Explore with Dr. King how researching the molecules of Streptococcus oralis could be a key to solving the puzzle of how to treat infective endocarditis.

Presented by:
Samantha J. King, PhD
Associate Professor
Department of Pediatrics
College of Medicine
The Ohio State University
Principal Investigator
Center for Microbial Pathogenesis
Nationwide Children’s Hospital

Watch Samantha’s Talk

About Samantha J. King, PhD

Samantha King, PhD, is a Principal Investigator in the Center for Microbial Pathogenesis at Nationwide Children’s Hospital and an Associate Professor in the Department of Pediatrics at The Ohio State University College of Medicine.

Dr. King’s research program focuses on a category of bacteria called alpha-hemolytic streptococci and diseases that they cause. Dr. King’s laboratory studies how alpha-hemolytic streptococci modify and interact with host cell surface molecules (glycans), and how these interactions contribute to pathogenicity. Two major avenues of her work include: 1) defining how these bacteria can release carbohydrates from host glycans and utilize these free carbohydrates for growth, and 2) how interactions with host glycans can mediate bacterial binding to host surfaces.

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More About Samantha J. King, PhD

Education and Professional Experience

- Undergraduate School - University of Leicester, Leicester, UK (1994)
- Doctoral - University of Warwick, Coventry UK (1999)
- Post Doctoral - University of Warwick, Coventry, UK (2002)
- Assistant Professor - Department of Pediatrics, The Ohio State University College of Medicine (2005 – 2013)
- Associate Professor - Department of Pediatrics, The Ohio State University College of Medicine (2013 – present)

Publications

Peer Reviewed Articles (partial listing only)


Discovery Talks

How do we intervene on the farm to enhance the safety of our food supply?

One out of six people become sick from foodborne illnesses every year. Every phase of food processing from farm to plate is susceptible to food-borne disease such as salmonellosis and illness caused by E. coli. Learn from Dr. LeJeune how we can find innovative ways to prevent the spread of foodborne pathogens without the use of antibiotics. Take a virtual farm tour with Dr. LeJeune and investigate three potential sources of disease that can affect our food supply downstream. Witness real-life case studies that use epidemiology testing principles. Understand that by changing fundamental farm operational procedures involving cattle feed, bedding and interaction with other animals, we can make our food supply safer and prevent the spread of food-borne disease.

Presented by:

Jeffrey T. LeJeune, PhD
Diplomate ACVM, Diplomate ACVPM
Professor, Program Head
Food Animal Health Research Program
Ohio Agricultural Research & Development Center
The Ohio State University

Watch Jeffrey’s Talk

About Jeffrey LeJeune, DVM, PhD, Diplomate ACVM, Diplomate ACVPM

Dr. LeJeune’s signature areas of expertise are in food security, production and human health. His research is primarily focused on understanding the ecological mechanisms and epidemiological patterns associated with the transmission of zoonotic bacteria between animal and human populations, with special emphasis on Shigatoxin-producing E.coli (STEC) and antimicrobial resistant organisms. This work will lead to the discovery of strategies to prevent transmission of pathogens between reservoir species and water, wildlife, and edible crops. Other areas of expertise include veterinary epidemiology, bacteriology, foodborne diseases, antibiotic resistance and molecular mechanisms of E.coli O157.

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Jeffrey LeJeune, DVM, PhD, Diplomate ACVM, Diplomate ACVPM

Education and Professional Experience

• DVM University of Prince Edward Island, Canada
• PhD Washington State University, USA
• Board Certification, American College of Veterinary Microbiologists
• Board Certification, American College of Veterinary Preventative Medicine

Publications

Peer Reviewed Articles (partial listing only)


Discovery Talks

What’s the next generation of vaccine development?

In 1885, Louis Pasteur used a newly developed vaccine to immunize a little boy who was bitten by a rabid dog. At the time, rabies was a death sentence. Whereas Pasteur types of vaccines have protected humanity from viral infections for well over a century, viruses have been studying our immune system for millions and millions of years, and some do not respond to vaccination. Join Dr. Niewiesk as he presents how these invaders are getting around our immune system. Hear the scientific differences between measles vaccines that protect us long-term, and respiratory syncytial virus (RSV) infection that only confers short-term protection. Discover how researchers are using this knowledge to develop a long-term vaccine for RSV.

Presented by:

Stefan Niewiesk, DVM, PhD,
DECLAM
Professor and Chair Department of Veterinary Biosciences
College of Veterinary Medicine
The Ohio State University

Watch Stefan’s Talk

About Stefan Niewiesk, DVM, PhD

Stefan Niewiesk is interested (1) in how human respiratory viruses (respiratory syncytial virus, measles virus, influenza virus) cause disease and (2) in developing antiviral drugs and vaccines. His research involves vaccination in the presence of maternal antibodies and vaccination against respiratory syncytial virus. His team approach uses animal model development, specifically cotton rats and humanized mice, as animal models for infectious diseases and cancer. Dr. Niewiesk is teaching virology for Veterinary Medical Professional Curriculum and Graduate Education for The Ohio State University.

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More About Stefan Niewiesk, DVM, PhD

Professional Training and Experience

• DVM, Veterinary School, Hannover, Germany
• PhD The University of Würzburg, Germany
• Diplomate, European College of Laboratory Animal Medicine
• Habilitation, The University of Würzburg, Germany
• Fachtierarzt für Versuchstierkunde, Germany
• Fachtierarzt für Mikrobiologie, Germany

Publications from students of the Niewiesk laboratory


University Memberships

• Center for Retrovirus Research
• Center for Microbial Interface Biology
• Comparative Cancer Center at The Ohio State University
• Public Health Preparedness Program for Infectious Diseases
• Molecular, Cellular, and Developmental Biology Graduate Program
• Faculty Member, Department of Molecular Virology, Immunology, and Medical Genetics
Discovery Talks

How does understanding viruses and microbes help save the earth and cure your ailments?

Though there are 50 million viruses in a mouthful of seawater, 90% of these viral communities remained nameless until recently. Travel around the world’s oceans with Dr. Sullivan on the research vessel Tara as he and more than 200 international scientists set sail to catalogue viruses globally. This scientific group seeks to understand how viruses and other organisms affect the oceans and climate change. hear Dr. Sullivan extend these lessons from the oceans to better understand virus-host interactions in natural communities. Explore how a virus hidden inside a pathogen can adjust its toxicity to cause a pandemic. Learn how viruses can sink through the oceans and bury carbon that is likely helping to keep our planet cooler. Discover how studying ocean viruses provides a roadmap to better understand viral communities in the soil, air and human body.

Presented by:

Matthew B. Sullivan, Ph.D
Associate Professor
Department of Microbiology
College of Arts & Sciences; Department of Civil, Environmental, and Geodetic Engineering
College of Engineering
The Ohio State University

Watch Matthew’s Talk

About Matthew B. Sullivan, Ph.D

Dr. Sullivan’s research aims to understand how viruses impact microbes – in the oceans, soils, air and humans. His group has pioneered survey techniques to identify and characterize the influence of microbes and viruses on environmental populations, as well as the impact on global biogeochemistry. The Sullivan lab is also developing methods to investigate questions that are critical for modeling and predicting the impacts of virus-host interactions in the wild.

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More About Matthew B. Sullivan, Ph.D

Education

• Postdoctoral fellow, MIT, Department of Civil and Environmental Engineering, 2007
• Ph.D., Biology, MIT/WHOI: Joint Program in Biological Oceanography, 2004
• M.Phil., Biology, Queens University of Belfast, Northern Ireland, U.K., 1998
• B.S., Marine Science, Long Island University, Southampton College, NY, 1997

Academic Appointments

• Associate Professor, Department of Microbiology & Department of Civil, Environmental, and Geodetic Engineering, The Ohio State University, 2016-present
• Assistant Professor, Department of Microbiology & Department of Civil, Environmental, and Geodetic Engineering, The Ohio State University, 2015-2016
• Associate Professor, Department of Ecology & Evolutionary Biology, University of Arizona, 2014-2015
• Assistant Professor, Department of Ecology & Evolutionary Biology, University of Arizona, 2008-2014

Publications (partial list)


Howard-Varona et al. (2016). Regulation of infection efficiency in a globally abundant marine Bacteriodetes virus. ISME J. doi: 10.1038/ismej.2016.81


**Discovery Talks**

**Why are we more likely to find the cure when we’re not looking for it?**

Epidemics caused by Ebola, SARS, MRSA and most recently the Zika virus have been in the forefront of media headlines. Private and public funding is streamlined to drug developers to “find the cure.” These cures are typically developed based on earlier findings by research scientists who discover for discovery’s sake. Join Dr. Turner as she explains how we may be looking at the cure for tuberculosis and other infections the wrong way. Learn how current treatment for tuberculous involves a drug cocktail with major side effects resulting many times in recurrence, and even more, resistance to antibiotics. Explore how scientists are using a new approach that may result in reducing a 6-9-month treatment of tuberculous to 6 weeks.

**Presented by:**

**Joanne Turner, PhD**  
Professor  
Microbial Infection & Immunity  
The Ohio State University

**Watch Joanne’s Talk**

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**About Joanne Turner, PhD**

Dr Turner’s research focuses on understanding why some individuals are more likely to develop tuberculosis, and specifically on how changes in immune function can lead to susceptibility to tuberculosis. Studies include investigating how immune-suppressive cytokine production modifies long-term control of M. tuberculosis infection, vaccine efficacy and drug treatments. Additionally, Dr. Turner studies the changes that take place in the immune system during the natural aging process and the influence that this has on the capacity of the host to control infectious diseases.

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More About Joanne Turner, PhD

Education

• Postdoctoral fellow, Mycobacterial Research Laboratories, Colorado State University, 1997-2003
• Ph.D., Immunology, London School of Hygiene and Tropical Medicine, UK, 1993-1997
• BSc, Immunology and Biochemistry, University of London, UK, 1991-1993

Publications (partial list)


JC Cyktor, B Carruthers, RA Kominsky, GL Beamer, P Stromberg, and J Turner. 2013. Interleukin-10 inhibits mature, fibrotic granuloma formation during Mycobacterium tuberculosis infection. J. Immunol. 190: 2778-2790. **Recommended as being of special significance by the Faculty of 1000 (2 recommendations) and recommended on Pubadvanced. PMID: 23396944.


Appointments

• Program Director - Biosafety Level 3 (2010-present)
• Associate Director of Education - Center for Microbial Interface Biology (2014-present)
• Outgoing Chair - President and Provost's Council on Women (2016-2017)
• Director - Women's Academic Advancement, Center for Faculty Advancement, Mentoring and Engagement (2016-present)