

SCHMID COLLEGE OF SCIENCE AND TECHNOLOGY

SCIENCE FORUM SERIES

The Science Forum Series is an opportunity for faculty and special guests to present their latest research to the campus community. Each presentation is approximately 45 minutes to one hour in length. Feel free to drop in and leave as your schedule permits. Light refreshments will be served.



Kirsten Hirneisen, Ph.D.

Developing a Universal Enrichment Broth for Foodborne Bacterial Pathogens

FEB.
12

Noon-1 p.m.
William Lyons Conference Center
(Arygros Forum 209A)

Foodborne bacterial pathogens have been the cause of high profile outbreaks lately that have resulted in serious illnesses, hospitalizations and deaths. The talk will address how successful prevention of foodborne pathogens, rapid and reliable detection methods need to be developed for testing of foods.



Michelle Digman, Ph.D.

Imaging the Molecular Dynamics of Focal Adhesion Proteins in Live Cells

MAR.
5

Noon-1 p.m.
Arygros Forum, AF 119B

Molecular interactions and mobility can be studied in live cells as well as map the interactions of key focal adhesion proteins in real time and space. The talk will address how confocal microscopy can be used to map these interactions in living biological systems.



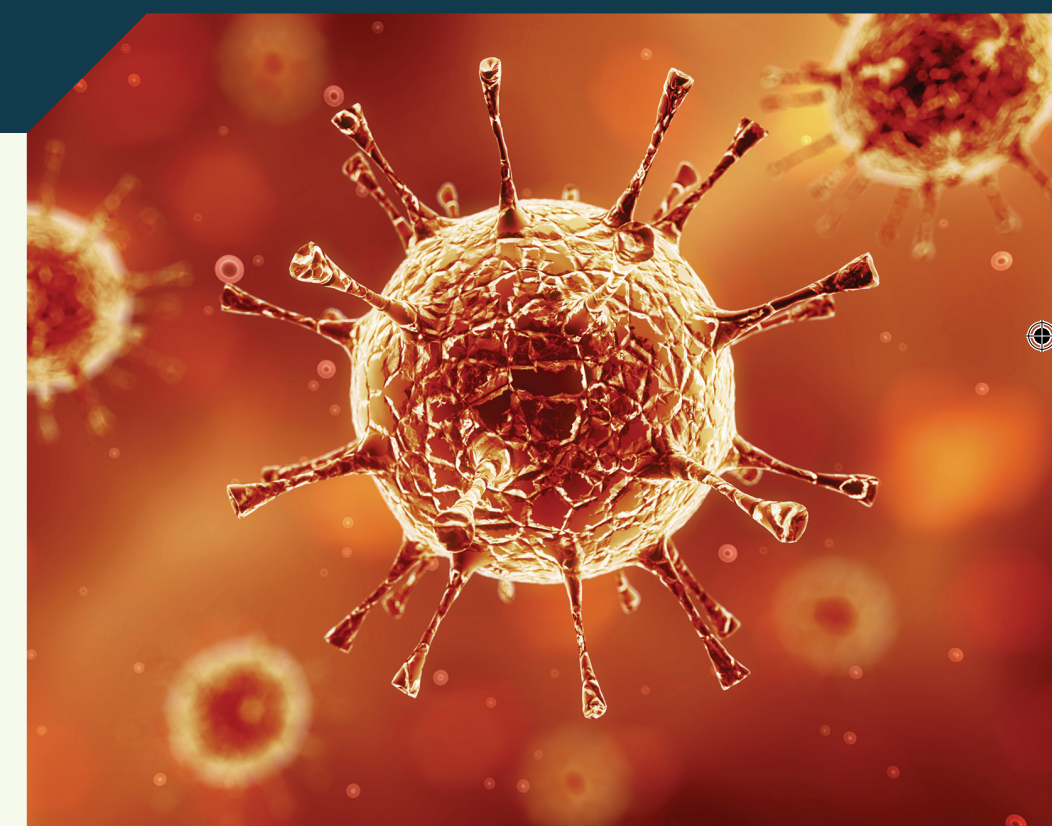
Katrine Whiteson, Ph.D.

Metabolites, Germs and People: Human-associated Microbial Communities in Health and Disease

MAR.
26

Noon-1 p.m.
Arygros Forum Student Ballroom, AF 119A

I am interested in understanding how individual and persistent human-associated microbial and viral communities affect health. The talk will address how infection with a bacterial pathogen, vaccination, immune development and even taking a Tylenol does not occur in a vacuum. Dynamic microbial and viral communities constantly inhabit our bodies, encoding the majority of the unique genes that alter these processes.



Julia Boehm, Ph.D.

The Heart's Content: Positive Psychological Well-Being and Cardiovascular Health

APR.
9

Noon-1 p.m.
Arygros Forum Student Ballroom, AF 119A

Associations between psychological health and physical health have long been recognized. However, most research to date has investigated the association between poor psychological functioning (e.g., depression, anxiety, and hostility) and physical health. The talk will address how positive psychological well-being (e.g., optimism, purpose in life, and happiness) may also be related to health independently of the effects of psychological ill-being.



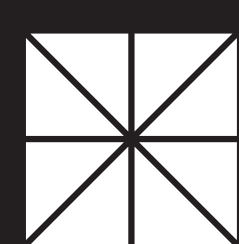
Marco Bisoffi, Ph.D.

Using Analogs of the Natural Product Curcumin to Combat Prostate Cancer Cells

MAY.
7

Noon-1 p.m.
Arygros Forum Student Ballroom, AF 119A

Prostate cancer cells rely on several molecular pathways for their growth and survival. These pathways have been identified as points of "oncogenic addiction." One such pathway is androgen signaling through the androgen receptor triggered by testosterone. The talk will address how curcumin analogs efficiently inhibit prostate cancer cell growth.



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