Department of Basic Medical Sciences
Highlights 2016

Publications – High profile publications by the BMS faculty in 2016 include the following:


*Featured article. Highlighted in “Editor’s Picks.”


*Publication and Cover Image for that Journal’s Issue. Dr. Herbst-Kralovetz led and coordinated one of seven articles detailing the proceedings of the 2015 NIH/NIAID Bacterial Vaginosis Expert Consultation. In addition, scanning electron microscopy work from her lab was featured on the cover of the Journal of Infectious Diseases issue detailing these proceedings.


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Mission:
Through discovery, education and service, the BMS faculty strive to be leaders in their areas of scholarship. Using interdisciplinary approaches, BMS faculty perform hypothesis-driven investigations to reveal mechanisms that underlie biological processes and human disease and collaborate with clinical researchers to facilitate the development of novel diagnostics, therapies and preventive measures. BMS faculty are also engaged in medical and graduate education by developing, delivering and assessing curricula, and conduct educational scholarship.

Paul E. Boehmer, PhD
Chair and Professor
Basic Medical Sciences

Publications Continued:


*Coauthor of two chapters in the book “Holes in the Head: trepanation in ancient Peru,” by John W. Verano. The book appeals to bioarchaeologists, neurosurgeons, and medical historians, and has had wonderful coverage and reviews.


Grants:

- Jian Gu, PhD, Associate Professor, ANB-M, received Defense Threat Reduction Agency, Department of Defense grant "Design rules for vertical paper-based immuno-diagnostic system" as co-I, and AHEC grant "Microfluidic enabled 3D in vitro model of osteosarcoma for drug development applications" as PI.

- *Rebecca Fisher, PhD, Associate Professor, BMS, awarded Office of Naval Research grant, “Octopus-Inspired Autonomous Arms for Soft Robots with Adaptive Motions.”

*Dr. Fisher’s role on this grant is to investigate the neuroanatomy of octopus arms via imaging and assist with live animal experiments to study sensation and motor control in octopus arms. These data will be used as the biological inspiration for a soft-armed, autonomous robot, designed by her collaborators at ASU and UCLA.

- Peter Jurutka, PhD, Professor, ASU, awarded Mayo Clinic Weight and Wellness Solutions Grant for a project entitled, “Obesity and Irritable Bowel Syndrome (IBS) - Assessment of Co-morbidity and Interactions with Gut Microbiota, Vitamin D and Serotonin Levels.”

- Jie Wu, MD, PhD, Research Professor, BNI, awarded Valley Research Partnership (VRP) P2 collaboration grant together with Ella Nikulina, PhD, Associate Professor, phoenixmed.arizona.edu/bms

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Outreach and Service:
- Karen Hastings, MD, PhD, Associate Professor, BMS, was session Chairperson, Abstract Reviewer and selected Conference Presentation on "GILT-mediated antigen processing in thymic epithelial cells diminishes T cell-mediated protection from melanoma through promoting thymic deletion and regulatory T cells" at the International Congress of Immunology in Melbourne Australia in August, 2016.

Honors:
- Frederic Zenhausern, PhD, MBA, Professor and Director of the Center for Applied NanoBioscience, elected Fellow, American Institute of Medical and Biological Engineering (AIMBE).

Other:
- The Department hosted twenty-four scientific presentations as part of the annual Basic Medical Sciences Seminar Series.

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