JOURNAL WATCH

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In “Journal Watch,” I provide articles on recent developments and new technology used in microbiology and related fields. I also post articles that may help you bring new information or techniques into your laboratory or classroom via case studies or lab exercises. I hope you find this information useful, and I encourage you to send suggestions, questions or comments to me at herzogja@herkimer.edu. I look forward to hearing from you!

Research Articles

Bassam, A., S. A. Marcus, S. K. Ward, P. C. Karakousis, H. Steinberg, and A. M. Talaat. 2011. Characterization of a novel heat shock protein (Hsp22.5) involved in the pathogenesis of *Mycobacterium tuberculosis*. *J. Bacteriol.* **193**:3497–3505. (doi:10.1128/JB.01536-10)

(A novel mycobacterial gene, *rv0990c*, plays a role in the modulation of virulence and the establishment of chronic infection in host cells.)

Schanzer, D., J. Vachon, and L. Pelletier. 2011. Age-specific differences in influenza A epidemic curves: Do children drive the spread of influenza epidemics? *Am. J. Epidemiol.* **174**:109–117. (doi:10.1093/aje/kwr037)

(Analysis of data from laboratory-confirmed influenza cases over more than 10 seasons to identify the age groups for which influenza activity peaks first in the community, information which will be used to establish effective protocols for use during a pandemic.)

Watkins, S. K., Z. Zhu, E. Riboldi, K. A. Shafer-Weaver, K. E. Stagliano, M. M. Sklavos, et al. 2011. FOXO3 programs tumor-associated DCs to become tolerogenic in human and murine prostate cancer. *J. Clin. Invest.* **121**:1361–72. (doi:10.1172/JCI44325.)

(Targeting FOXO3 expression on tumor-associated dendritic cells suppresses the loss antigen-specific T cell activity [CTL tolerance], thereby enhancing immune destruction of cancer cells.)

Pedagogy

Henderson, F., N. Nunez-Rodriguez, and W. Casasri. 2011. Enhancing research skills and information literacy in community college science students. *Am. Biol. Teacher* **73**:270–75.

(Overview and results of a two-semester General Biology course for Majors designed to improve students' cognitive and research abilities in the sciences through activities targeting core GenEd competencies assessed at the institution.)

Markel H. 2011. The extraordinary Dr. Biggs. *JAMA* **305**:2473–2474. (doi:10.1001/jama.2011.815)

(Perspective piece on Dr. Hermann Biggs, former head of the Health Department of the City of New York and later Commissioner of the New York State Department of Health, and his role in shaping public health policy. Refer to <http://www.nyc.gov/html/doh/downloads/pdf/bicentennial/historical-booklet-1886-1913.pdf> for additional information.)

Palmieri, J. R., S. F. Elswaifi, and K. K. Fried. 2011. Emerging need for parasitology education: training to identify and diagnose parasitic infections. *Am. J. Trop. Med. Hyg.* **84**:845–846.

(The resurrection of parasitology instruction is warranted in many medical school and public health programs, in light of emerging infectious diseases — new and old.)

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