

# Residents and Fellows Research Day 2015

A Program of the Theresa and Eugene M. Lang Center  
For Research and Education

May 20 Keynote Address

## Thoughts on the Origin of Microbial Virulence

**Arturo Casadevall, M.D., Ph.D., has been named keynote speaker for Resident and Fellows Research Day 2015.**

Currently Chair of the Department of Molecular Microbiology and Immunology at the Johns Hopkins Bloomberg School of Public Health, Dr. Casadevall will discuss the rise of invasive fungal diseases as a major medical problem and the effect of global warming on fungal thermal tolerance, as fungal species adapt to higher ambient temperatures. He will also speak about the search for new therapeutics and about fungal thermal tolerance, a poorly understood complex trait, which is a promising new area for basic science research.

Dr. Casadevall's major research interests are in fungal pathogenesis and the mechanism of antibody action. He also has an active research program in the area of biodefense to understand the mechanisms of antibody-mediated neutralization of *Bacillus anthracis* toxins.

Currently, Dr. Casadevall is a member of the National Science Advisory Board for Biosecurity and co-chairs the NIAID Board of Scientific Counselors. He is the editor-in-chief of *mBio*, the first open-access general journal of the American Society of Microbiology, and he is on the editorial board of the *Journal of Clinical Investigation* and the *Journal of Experimental Medicine*.

The author of more than 620 scientific



Dr. Arturo Casadevall

papers, Dr. Casadevall became interested in problems with scientific enterprise and has shown, with his collaborators, that misconduct accounts for the majority of retracted publications. He has suggested a variety of reforms to the way science is done.

From 2006-2014, Dr. Casadevall served as chair of the Department of Microbiology and Immunology at Montefiore Medical Center, the University Hospital and academic medical center for

Einstein, and as director of the Division of Infectious Diseases from 2000-2006.

He has also served on numerous NIH committees including those that drafted the NIAID Strategic Plan and the Blue Ribbon Panel on Biodefense Research. In 2008, he was recognized by the American Society of Microbiology with the William Hinton Award for mentoring scientists from under-represented groups. He has been elected to the AAAS Fellowship, the American Society for Clinical Investigation, the American Academy of Microbiology, the American Association of Physicians and the Institute of Medicine.

Dr. Casadevall received both his M.D. and Ph.D. (biochemistry) degrees from New York University. Subsequently, he completed his internship and residency in internal medicine at Bellevue Hospital in New York. He then completed subspecialty training in infectious diseases at Montefiore and Einstein.



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