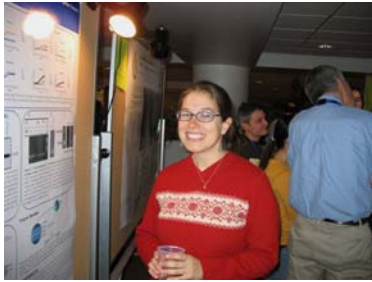
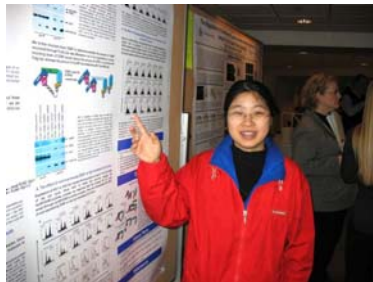


## CIMD Winners at Graduate Studies Poster Day 2007



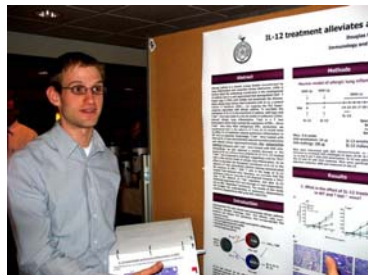
1st & 2nd Year Students  
**Amanda Melillo** - 2nd Place  
(Mentor: **J. Andrés Melendez, Ph.D.**)

"The Role of *Francisella tularensis* Intracellular Growth Locus C (IglC), Superoxide Dismutase and Catalase in Regulating Reactive Oxygen and Nitrogen Species Toxicity"



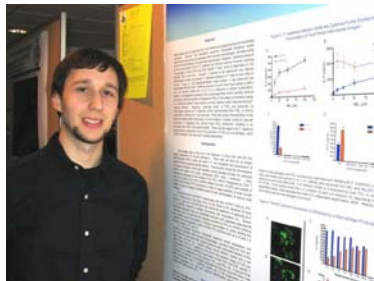
3rd Year Students  
**Xiaoyun Wen** - 1st Place\*  
(Mentor: **Carlos de Noronha, Sc.D.**)

"HIV1 Protein Vpr Causes G2 Cell Cycle Arrest by Recruiting Host Ubiquitin Ligase Complex"



3rd Year Students  
**Douglas Durrant** - 2nd Place  
(Mentor: **Dennis W. Metzger, Ph.D.**)

"IL-12 Treatment Alleviates Allergic Lung Inflammation in T-bet<sup>-/-</sup> Mice"



4th Year Students  
**Justin Wilson** - 2nd Place\*  
(Mentor: **James R. Drake, Ph.D.**)

"*Francisella tularensis* Infected Macrophages Produce Prostaglandin E2 that Skews T cell Responses"

\*Invited to give an oral presentation on Awards Day

***Congratulations to all graduate students for their hard work and participation!***

## 28th Annual Graduate Student Research & Awards Day

Graduate Student Research & Awards Day will honor and recognize the achievements of AMC Graduate Students. Oral research presentations will be made and awards given on Thursday, April 5, 2007 at 2:00 p.m. in ME-700.



## Dr. Gosselin Receives NIH Grant

Edmund J. Gosselin, Ph.D., Associate Professor, was awarded a \$275,000 two-year grant from the National Institutes of Health for his research entitled, "Protective Activity of a Multi-Functional Immunogen."



Theobald Smith, M.D.

### Albany Medical College 2007 Theobald Smith Annual Lecture

Presented by the  
Center for Immunology & Microbial Disease

## "Regulation of Inflammation and Immunity by Cytokines"

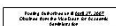
**Richard Flavell, Ph.D., FRS**

Chairman and Sterling Professor of Immunobiology  
Member, National Academy of Sciences  
Member, Institute of Medicine  
Investigator, Howard Hughes Medical Institute  
Yale University School of Medicine

Thursday, April 26, 2007  
12:00 noon

Room ME-700, Wiggers Auditorium  
Albany Medical College

Host: Dennis W. Metzger, Ph.D., Professor and Theobald Smith Alumni Chair Director,  
Center for Immunology & Microbial Disease  
(518) 262-6750



## Study Sections & Review Panels

**Dennis W. Metzger, Ph.D.**, was recently re-appointed a member of the External Advisory Board of NIH's Center of Biomedical Research Excellence (COBRE) at Dartmouth Medical School to review the school's research programs on March 15-16, 2007 in Lebanon, NH.

**J. Andrés Melendez, Ph.D.**, served on the NIH, National Cancer Institute's "Cancer Etiology Study Section" in Bethesda, MD on February 12-13, 2007.

**Edmund J. Gosselin, Ph.D.**, was asked to review grants for the Lupus Research Institute during the month of February 2007.

**Dennis W. Metzger, Ph.D.**, served on the National Institutes of Health "Systems Approach to Immunity and Inflammation Study Section" in Washington, DC on February 12-13, 2007.

**Edmund J. Gosselin, Ph.D.**, served on the NIH Study Section "Microbial Vaccine Development" on February 26, 2007 in Washington, D.C.



Congratulations to **Xiaoyun Wen** and her husband, Sheng Luo, as they celebrate the birth of their daughter, Erinn Luo. Erinn weighed 7 lbs. and was 19 inches tall.

## Paper Noted in the "Spotlight" Section of *Infection and Immunity*

A recent published paper, authored by **Keer Sun, Ph.D.**, was spotlighted in "Articles of Significant Interest Selected from This Issue by the Editors" in the March 2007 issue of *Infection and Immunity*. (Mentor: **Dennis W. Metzger, Ph.D.**)

The review appears below.

### Protective Role of Interleukin-12 in Host Defense against Pneumococcal Infection

Current vaccines against *Streptococcus pneumoniae* provide only limited protection to selected serotypes, and procedures to induce effective innate immunity are hampered by the lack of information regarding the cells required for defense against this pathogen. **Sun et al.** (p. 1196-1202) now demonstrate that intranasal interleukin-12 (IL-12) treatment of mice can significantly improve protection against pneumococcal respiratory infection. Their findings show that IL-12 induces gamma interferon production in the lung, which in turn promotes recruitment of neutrophils and, ultimately, bacterial clearance. These results indicate that protection against extracellular bacterial pathogens in the lung represents another important function of IL-12.

## Publications

**Sun K, Salmon SL, Lotz SA and Metzger DW.** Interleukin-12 Promotes Gamma Interferon-Dependent Neutrophil Recruitment in the Lung and Improves Protection against Respiratory *Streptococcus pneumoniae* Infection. *Infect Immun.* 2007, 75(3):1196-1202.

**Ma Z and Zhang JR.** RR06 Activates Transcription of spr1996 and cbpA in *Streptococcus pneumoniae*. *J Bacteriol.* 2007, 189(6):2497-2509.

**Malik M, Bakshi CS, McCabe K, Catlett SV, Shah A, Singh R, Jackson RL, Gaggar A, Metzger DW, Melendez JA, Blalock JE and Sellati TJ.** Matrix metalloproteinase 9 activity enhances host susceptibility to pulmonary infection with type A and B strains of *Francisella tularensis*. *J Immunol.* 2007, 178(2):1013-20.

**Banas JA, Fountain TL, Mazurkiewicz JE, Sun K and Vickerman MM.** *Streptococcus mutans* glucan-binding protein-A affects *Streptococcus gordonii* biofilm architecture" *FEMS Microbio. Lett.* 2007, 267(1):80-88.

**Prado M, Melendez JA and Tirosh O.** Manganese superoxide dismutase inactivation during Fas (CD95)-mediated apoptosis in Jurkat T cells. *Free Radic Biol Med.* 2006, 41(12):1795-806.

**Bedoya F, Sandler LL and Harton JA.** Pyrin-Only Protein 2 Modulates NF-B and Disrupts ASC:CLR Interactions. *J Immunol.* 2007, 178(6):3837-45.



## Conferences and Invited Seminars

**J. Andrés Melendez, Ph.D.**, presented a poster entitled, "Redox-Activation of c-Jun N-terminal Kinase Drives Stromal and Tumor-Derived Matrix Melloproteinase-1 Expression" at the Keystone Meeting "Host Cell Interaction and Response to the Cancer Cell" in Keystone, CO on January 21-26, 2007.

**Timothy J. Sellati, Ph.D.**, gave a presentation entitled, "Chronic Lyme Disease: When the Inflammatory On/Off Switch is Broken" at the Rensselaer Polytechnic Institute in Troy, NY on February 12, 2007.

**Jing-Ren Zhang, Ph.D.**, was asked to present at the Rensselaer Polytechnic Institute in Troy, NY on February 12, 2007. Dr. Zhang's presentation was titled, "*Francisella tularensis*—the genetic basis of its extreme infectivity."

**Timothy J. Sellati, Ph.D.**, was invited by the Department of Microbiology and Immunology at New York Medical College in Valhalla, NY on March 22, 2007 to give his presentation entitled, "Neutrophil Recruitment and Tularemia Pathogenesis: A Single-Edged Sword?"

**Albany Tulip Festival**

Fri-Sun 5/11/07-5/13/07

Washington Park Albany, NY

A celebration of arts & crafts, food, stages,  
music and childrens' activities.  
www.albanyevents.org

**Animals & Acrobats**

Sat-Mon 5/26/07-5/28/07

Van Cortlandt Manor Croton-on-Hudson, NY

Experience the early American traveling circus!  
www.hudsonvalley.org

**Fairport Canal Days**

Fri-Sun 6/1/07-6/3/07

6 North Main St. Fairport, NY

300 artisan booths, food, music and fun!  
www.fairportcanaldays.com

**Antique Machinery & Rural Life Festival**

Sat-Sun 6/9/07-6/10/07

Dutchess County Fairgrounds Rhinebeck, NY

Old-time engines, Century Museum, motorcycle swap!  
www.CMVCA.org

**Hudson Valley Wine & Food Fest**

Sat-Sun 9/7/07-9/9/07

The Greig Farm Redhook, NY

Sample regional wines and food; gifts and music.  
www.hudsonvalleywinefest.com

These are just a few of the activities in New York State.  
Many are free!

**For more information, visit**  
**[www.iloverny.com](http://www.iloverny.com)**

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CIMD Administrative Staff

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Rich Filkins, IRC Coordinator  
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If you have an item you would like considered for the  
next Newsletter issue, please put it in my mail box or e-  
mail your item(s) to me at: [Bellvid@mail.amc.edu](mailto:Bellvid@mail.amc.edu)  
Thank you.

**Deadline for submission: 6/15/07**  
Next print date: July 2007

**Upcoming CIMD Seminars**

April 2, 2007

(12:00 p.m., MS-316)

*Biodefense Series***Martin S. Pavelka, Ph.D.**

Associate Professor  
Department of Microbiology and Immunology  
Director, BSL3 Facility  
University of Rochester Medical Center

***"Genetic Manipulation of Francisella tularensis"***

April 10, 2007

(11:00 a.m., Huyck Auditorium)

*Faculty Candidate***Makio Iwashima, Ph.D.**

Associate Professor  
Immunotherapy Center  
Medical College of Georgia

***"Selective Enrichment of Regulatory T cells by  
PLD Signal Inhibition"***

April 16, 2007

(12:00 p.m., MS-316)

*Biodefense Series***Thomas R. Kozel, Ph.D.**

Professor and Chair  
Department of Microbiology, School of Medicine  
University of Nevada

***"Targeting the Clostridium neoformans and  
Bacillus anthracis Capsules for Immunoprotection"***

April 23, 2007

(12:00 p.m., MS-316)

*Biodefense Series***J. Edwin Blalock, Ph.D.**

Professor  
Department of Physiology and Biophysics  
University of Alabama, Birmingham

***"TBA "***

May 7, 2007

(12:00 p.m., MS-316)

**Jian-Dong Li, M.D., Ph.D.**

Professor  
Department of Microbiology and Immunology  
University of Rochester

***"Bacteria-Induced Host Cell Signaling Networks  
in Airway Infection"***

May 14, 2007

(12:00 p.m., MS-316)

**Irfan Rahman, Ph.D.**

Assistant Professor  
Department of Environmental Medicine, Lung Biology Program  
University of Rochester Medical Center

***" Oxidative Stress and Redox Regulation of Histone  
Acetylation/Deacetylation in Lung Inflammation"***

**For more information, please check our website.**