Volume 8, Number 6 MEDICAL BIOTECHNOLOGY CENTER - UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE

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UMBI News

November-December, 2005

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# **Research Day/Convocation**

UMBI's Twentieth Anniversary celebration continued with a Convocation and Research Day, both held November 21. The Convocation recognized the contributions of all employees at every level. To eliminate the horrible prospect of driving to Rockville at rush hour, MBC's Pamela Wright organized bus service from Baltimore. A Terps emblazoned bus took on passengers at both the Columbus Center and MBC starting at the barely light hour of 6:30 am. Many staffers, who might not have come otherwise, welcomed the ride and the lively camaraderie on the trip. Many thanks to Mr. Dan Reznikov, Vice President for Operations and Finance, for letting UMBI Central pick up the tab!

> After a buffet breakfast and a welcome from Mr. Reznikov, President Jennie Hunter-Cevera, dressed in the official teal, black and gold UMBI academic regalia with the two UMBI maces displayed in front of her, addressed the group (see page 3 for picture). While her slide presentation had to be abandoned temporarily for technical difficulties, her words more than made up for the lack of pictures. She was inspiring and complementary to the whole of UMBI. After she spoke, President Hunter-Cevera, along with Ms. Kathy DeShong, Assistant Vice President for Human Resources, Mr. Reznikov, and Dr. Marian Jackson, Vice President of Academic

Affairs, presented awards for years of service. For many MBC employees, it was the first time their years of service had been recognized (see the table below). Both faculty and staff received certificates, noting 5, 10, 15 or more years of service.

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Hughes, Timothy P.	Assistant Director	15+ years
Collins, John	Professor	15+ years
McCrea, Michael E.	Facility Manager	15+ years
Monteiro, Mervyn J.	Professor	15+ years
Kao, Joseph P. Y.	Professor	15+ years
Graham, Mary C.	Accounting Associate	5+ years
Kasco, Jami M.	Business Manager	5+ years
Muralidharan, Sukumaran	Research Associate	5+ years
Hartmann, Hali A.	Assistant Professor	5+ years
Ni, Jiahong	Research Associate	5+ years



Education Stakeholders Day On Friday, November 11th, UMBI hosted the second in a series of events to celebrate its 20th Anniversary year. "Building a Competitive Workforce for the Bioscience Industry" was the topic of discussion, with both an industry and education focused panel presentation.

UMBI President joins TEDCO Board

UMBI's President Dr. Jennie Hunter-Cevera was sworn in as a new member of the Board of Directors for the Maryland Technology Development Corporation (TEDCO). See *Inside MBC*, vol. 8, No. 2 for more about TEDCO.

# **Baltimore Delegation**

The state delegates and senators from Baltimore City visited the MBC to look at what the three UMBI centers (MBC, IHV and COMB) within the city are doing. While not all members of the delegation could make it, UMBI President Jennie Hunter-Cevera and Center Directors, W. Jonathan Lederer from the MBC and Yanathan Zohar from COMB, welcomed Senator Lisa Gladden (an *ex officio* member of UMBI's Board of Visitors), Delegate Clarence Davis, Delegate Sandy Rosenberg, and Wiltina Bultman from Delegate Salima Marriott's office. Gary Coleman, UMBI's Assis-

tant Vice President for Education and Outreach, and Dr. Derik Spencer from the IHV also spoke to the delegation.





Left to right: MBC Director Dr. W. Jonathan Lederer, Senator Lisa Gladden, UMBI President Hunter-Cevera, Delegate Sandy Rosenberg, Delegate Clarence Davis, and UMBI Assistant Vice President Gary Coleman.

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## **Congratulations!**

Dr. Ilia Baskakov continues to be recognized for exciting work on prion proteins. He was invited to at the prestigious and invitation only annual sympos "Prion Biology: Puzzles and Paradoxes" held at Colo Spring Harbor on November 27-30, 2005. For son who is only four years out from a postdoctoral fello this is truly remarkable. Congratulations, again.

#### Convocation continued



President Hunter-Cevera also made two special awards, which she called the Shining Star Awards, to individuals who had not only been at UMBI for many years but who had demonstrated exceptional dedication and loyalty to UMBI. The first recipient was Ms. DeShong, the current Assistant Vice President for Human Resources. The second was MBC's own Assistant Director Tim Hughes. Mr. Hughes was MBC's first employee and had participated in many of the early events of UMBI. He is also UMBI's *de facto* archivist, having preserved most of the documents from the early years of UMBI.

The convocation was followed by the 2005 UMBI Research Day. It had been four years since the last time UMBI scientists from all the centers came together to talk about their research (*Inside MBC*, Vol. 4, No. 5). MBC Assistant Professor Bruce Vogel spoke on "Extracellular matrix proteins in development and disease," but a number of MBC faculty had posters up for the poster session that ended the day. As always, the range of research at UMBI is amazingly diverse and exciting.

With the day ending so late, the last Terps bus looked particularly welcoming by those heading back to Baltimore.

Top: President Jennie Hunter-Cevera in full academic regalia with UMBI maces in foreground. Left: MBC Assistant Director Tim Hughes receives the Shining Star award from President Hunter-Cevera

Right: MBC Business Manager, Jami Kasco (left) and Accounting Associate Mary Graham (right) enjoy the convocation.

Below: (left to right) Drs. Leonid Breydo, Yi Fu, Kadir Aslan and Chris Geddes in front of posters from Dr. Geddes' laboratory.





# **First Faculty Candidates Here**

The first faculty candidates have started to come through. Dr. Jennifer Deluca from the University of North Carolina spoke on "Achieving accurate chromosome segregation in mitosis: the role of the NDc80 complex in kinetochore function" on December 1. The following week on December 9, Dr. Benjamin Eaton from the University of California San Francisco spoke on "Cellular mechanisms of synaptic stability and neurodegeneration." These candidates came out of the first batch of applications. More candidates are expected after the first of the year. The number and quality of candidates continue to be exceptional, making the final decision gratifyingly difficult.

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## **MBC Happenings**

## **Comings and Goings**

**Dr. George Rodney** has joined the Institute of Molecular Cardiology as an Assistant Professor. **Dr. Brian Hagen** from the University of Nevada Reno has also joined the Institute of Molecular Cardiology as a Postdoctoral Fellow.

### Grants and Contracts

**Dr. George Rodney**, 11/1/2005, NIH, "Calmodulin & Calmodulin binding Domains in E-C Coupling" \$76,578, yr 1 of 5.

**Dr. W. Jonathan Lederer**, 12/1/2005, NIH, "Calcium Sparks in Heart Muscle," \$362,526, yr 3 of 4.

**Dr. Chris Geddes,** 12/16/2005, Glaxo/Smith/Kline, "Drug Screening," \$297,000, yr l of l.

### **Publications**

Kang TJ, Fenton MJ, Weiner MA, Hibbs S, Basu S, Baillie L, Cross AS. Murine macrophages kill the vegetative form of Bacillus anthracis. INFECTION AND IMMUNITY 73 (11): 7495-7501 NOV 2005

Hall G, Singh IS, Hester L, Hasday JD, Rogers TB. Inhibitorkappa B kinase-beta regulates LPS-induced TNF-alpha production in cardiac myocytes through modulation of NF-kappa B p65 subunit phosphorylation. AMERICAN JOURNAL OF PHYSIOL-OGY-HEART AND CIRCULATORY PHYSIOLOGY 289 (5): H2103-H2111 NOV 2005

Thompson SM, Kao JPY, Kramer RH, Poskanzer KE, Silver RA, Digregorio D, Wang SSH. Flashy science: Controlling neural function with light. JOURNAL OF NEUROSCIENCE 25 (45): 10358-10365 NOV 9 2005

Li HG, Li B, Song HJ, Breydo L, Baskakov IV, Wang LX. Chemoenzymatic synthesis of HIV-1V3 glycopeptides carrying two N-glycans and effects of glycosylation on the peptide domain. JOURNAL OF ORGANIC CHEMISTRY 70 (24): 9990-9996 NOV 25 2005

Breydo L, Bocharova OV, Makarava N, Salnikov VV, Anderson M, Baskakov IV. Methionine oxidation interferes with conversion of the prion protein into the fibrillar proteinase K-resistant conformation. BIOCHEMISTRY 44 (47): 15534-15543 NOV 29 2005

Huang YHH, Muralidharan S, Sinha SR, Kao JPY, Bergles DE. Ncm-D-aspartate: A novel caged D-aspartate suitable for activation of glutamate transporters and N-methyl-D-aspartate (NMDA) receptors in brain tissue. NEUROPHARMACOLOGY 49 (6): 831-842 NOV 2005

Massey LK, Mah AL, Monteiro MJ. Ubiquilin regulates presenilin endoproteolysis and modulates gamma-secretase components, Pen-2 and nicastrin. BIOCHEMICAL JOURNAL 391: 513-525 Part 3, NOV I 2005

Lou JY, Laezza F, Gerber BR, Xiao ML, Yamada KA, Hartmann H, Craig AM, Nerbonne JM, Ornitz DM. Fibroblast growth factor 14 is an intracellular modulator of voltage-gated sodium channels. JOURNAL OF PHYSIOLOGY-LONDON 569 (1): 179-193 NOV 15 2005

Zhang J, Lee MY, Cavalli M, Chen L, Berra-Romani R, Balke CW, Bianchi G, Ferrari P, Hamlyn JM, Iwamoto T, Lingrel JB, Matteson DR, Wier WG, Blaustein MP. Sodium pump alpha 2 subunits control myogenic tone and blood pressure in mice. JOURNAL OF PHYSIOLOGY-LONDON 569 (1): 243-256 NOV 15 2005

Weaver J, Porasuphatana S, Tsai P, Pou S, Roman LJ, Rosen GM. A comparative study of neuronal and inducible nitric oxide synthases: Generation of nitric oxide, superoxide, and hydrogen

## Grants.gov

The National Institutes of Health are rapidly moving to online submission of grants, as part of an overall federal government effort to reduce paper use. Various parts of this effort were implemented over a year ago, primarily the online submission of grant reviews and grant tracking using what NIH calls eCommons. The next step is the implementation of grants.gov. This portal does two things. The first is that it is supposed to be one source for finding all the government funding programs that are available, not just NIH. The second is that it is the entrance for obtaining the forms for online submission of grants. As of this newsletter, some funding programs are already requiring online submission.

To facilitate the implementation of online grant submissions, UMBI's Office of Research and Development (ORD) held an introductory workshop attended by MBC Assistant Director Tim Hughes and Research Coordinator Pamela Wright. They will help MBC faculty with online submissions if necessary. This was hands-on using UMBI's computerized classroom at the Columbus Center. ORD's Stan Jackson is UMBI's point man on grants.gov implementation.

Grants.gov is based on a proprietary software application called PureEdge Viewer. This application must be installed on a user's computer before form packages can be downloaded. At this time, only windows based machines are supported. Mac users are expected to be supported before NIH implements online submission of R01's, the basic grant mechanism most MBC faculty use. Online submission for R01's is expected to be mandatory by October 2006, with other grant mechanisms having been implemented earlier. Faculty members should keep abreast of all the latest developments, as NIH changes the rules regularly.

peroxide. BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS 1726 (3): 302-308 NOV 30 2005

Aslan K, Lakowicz JR, Geddes CD. Angular-dependent polarization-based plasmon light scattering for bioaffinity sensing. APPLIED PHYSICS LETTERS 87 (23): Art. No. 234108 DEC 5 2005

Smith DS, Kostov Y, Rao G, Gryczynski I, Malicka J, Gryczynski Z, Lakowicz JR. First observation of surface plasmon-coupled emission due to LED excitation. JOURNAL OF FLUORESCENCE 15 (6): 895-900 NOV 2005

Aslan K, Geddes CD. Microwave-accelerated metal-enhanced fluorescence: Platform technology for ultrafast and ultrabright assays. ANALYTICAL CHEMISTRY 77 (24): 8057-8067 DEC 15 2005

Kostov Y, Smith DS, Tolosa L, Rao G, Gryczynski I, Gryczynski Z, Malicka J, Lakowicz JR. Directional surface plasmon-coupled emission from a 3 nm green fluorescent protein monolayer. BIOTECHNOLOGY PROGRESS 21 (6): 1731-1735 NOV-DEC 2005