



2005 Bowman Award Dinner



The Hulman River House at White River Gardens poised on the White River Canal and showcasing the Indianapolis skyline provided a scenic venue for the 2005 Bowman Award Dinner on Friday, February 25, 2005. Biochemistry faculty, post-docs and their mentors gathered there to honor the 13 candidates who submitted papers either published or in press for the bi-annual competition. The Bowman Award, a prize for excellence in research in biochemistry by a postdoctoral fellow at the IU School of Medicine, is named in honor of Dr. Donald E. Bowman, the Department's first chairman. Bowman Awards competitions have been held since 1981.

The **2005 Bowman Award Candidates** represented an array of IU School of Medicine departments and wide-ranging biochemistry research:

Hanying Chen, Wells Research Center, Weinian Shou is the sponsor. *BMP10 is essential for maintaining cardiac growth during murine cardiogenesis*

Hui-Ju Chen, Biochemistry, Howard Edenberg is the sponsor. *Natural Haplotypes in the Regulatory Sequences Affect Human Alcohol Dehydrogenase 1C (ADH1C) Gene Expression*

Monika Fischer, Medicine, David Crabb is the sponsor. *Peroxisome Proliferator-activated Receptor (PPAR α) Agonist Treatment Reverses PPAR α Dysfunction and Abnormalities in Hepatic Lipid Metabolism in Ethanol-fed Mice*

Helen Jiang, Biochemistry, Ron Wek is the sponsor. *Phosphorylation of the α Subunit of Eukaryotic Initiation Factor 2 Is Required for Activation of NF- κ B in Response to Diverse Cellular Stress*

Hyung-Joo Kwon, Biochemistry, Maureen Harrington is the sponsor. *Tumor Necrosis Factor Alpha Induction of NF- κ B Requires the Novel Coactivator SIMPL*

Bart Pederson, Biochemistry, Peter Roach is the sponsor. *Abnormal Cardiac Development in the Absence of Heart Glycogen*

Jalees Rehman, Cardiology, Keith March is the sponsor. *Peripheral Blood "Endothelial Progenitor Cells" Are Derived From Monocyte/Macrophages and Secrete Angiogenic Growth Factors*

John Sandoval, Hematology/Oncology, Linda Malkas is the sponsor. *Isolation and Characterization of a DNA Synthesome from a Neuroblastoma Cell Line*

Alexander Smolensky, Cardiology, Lincoln Ford is the sponsor. *Length-dependent filament formation assessed from birefringence increases during activation of porcine tracheal muscle*

(Continued on p 3)

March Seminars

Biochemistry Seminars Mondays 4 pm, MS B26

3/14 Dr. Channing Der,
Professor of Pharmacology,
Member, Lineberger Compre-
hensive Cancer Center, Univer-
sity of North Carolina at Chapel
Hill, Chapel Hill, NC. *Ras and
Rho GTPases, Signaling and
Cancer.*

3/21 Dr. Marietta Harrison,
Professor of Medicinal Chemis-
try and Molecular Pharmacol-
ogy, Associate Director, Purdue
Cancer Center, Purdue Univer-
sity, West Lafayette, IN. *Signal
Transduction in T Lymphocytes.*

3/28 Dr. Michael Weinstein,
Assistant Professor, Molecular
Genetics and Division of Hu-
man Cancer Genetics, Ohio
State University, Columbus, OH.
*Functions of TGF-beta signal-
ing in mammalian develop-
ment, disease, and cancer.*

Biochemistry and Molecular Biology Research Seminar Series Every other Thursday, 12:00 noon MS B16

March 3 Suzanne Young.
*CpG binding Protein is required
for successful cellular differen-
tiation.*

**March 17 Jyothi Thundi-
madathil.** *Folding of beta sheet
peptides in membranes.*

March 31 Haoyuan Jiang.
*eIF2 kinase and stress response
pathway.*

Biochemistry Student Seminars Wednesdays, 12 Noon, MS B16

3/2 Brandy Budzynski
3/9 Ban Ke
3/23 Christopher Lux
3/30 Donghui Zhou

Center for Diabetes Research Seminars, Tuesdays, 4:00 pm, Daly Student Ctr. 122A

3/1 Dr. Janice S. Blum,
Professor Microbiology and
Immunology and Member of the
Walther Oncology Center,
Indiana University School of
Medicine, Indianapolis, IN.
*Interaction of Heat Shock
Proteins with the Type I Diabe-
tes Autoantigen, GAD.*

3/15 Dr. M. Sue Kirkman,
Associate Professor of Medicine
and Director, Endocrinology
and Metabolism Fellowship
Training Program, Indiana
University School of Medicine,
Indianapolis, IN. *Does control-
ling post-prandial hyperglyce-
mia delay beta cell failure in
type 2 DM.*

3/29 Dr. Helmut Steinberg,
Associate Professor of Medi-
cine, Division of Endocrinology,
Indiana University School of
Medicine, Indianapolis, IN.
*Vascular Dysfunction and
Insulin Resistance.*

Other Seminars of Interest

3/8 The Department of
Medicine, Division of Biostatis-
tics; the Center for Medical
Genomics; and the Center for
Computational Biology and
Bioinformatics present Faculty
Candidate Speaker **Li-Xuan
Qin, Ph.D.** *The Clustering of
Regression Models Method
with Applications in Gene
Expression Data.* 2:00 – 3:00
PM, Regenstrief Fourth Floor
Classroom, RG R4147.

Proteomics Workshop: Sample Preparation for Proteomic Studies

Wednesday, March 23,
2005, 2:00 – 4:00 pm
Fesler Hall Room 315
(Hurty Hall)

Sample prep and experimental
design are keys for successful
proteomic studies. In this
workshop, participants will
discuss sample prep protocols
for different sample types
including serum, plasma, tissues,
and cells. In addition, statistical
issues of proteomic studies will
also be discussed. No registra-
tion is required.

Recent Publications

Tell G, Damante G, Caldwell D, **Kelley MR**. The Intracellular Localization of APE1/Ref-1: More than a Passive Phenomenon? *Antioxid Redox Signal*. 7(3-4):367-84.

Park SJ, Armstrong S, Kim CH, Yu M, Robertson K, **Kelley MR**, Lee SH. Lack of EGF receptor contributes to drug sensitivity of human germline cells. *Br J Cancer*. ;92(2):334-41.

New Faces in Biochemistry



Scheri-Lyn Green
new Research Technician in
Sonal Sanghani's lab

Congratulations!

Mark Kelley was notified that his paper "Review of Mammalian DNA Repair and Translational Implications" (*JPET, PIPS*, 2000, 295: 1-9) was accessed via internet 19,925 times during 2004, making it the most frequently accessed article in the *Journal of Pharmacology and Experimental Therapeutics*.

Bowman Award Dinner, (continued from p1)

Feng Yin, Cellular and Integrative Physiology, Paul Herring is the sponsor. *GATA-6 Can Act as a Positive or Negative Regulator of Smooth Muscle-specific Gene Expression*

Benyue Zhang, Microbiology/Immunology, Ann Roman is the sponsor. *Human papillomavirus type 16 E7 protein increases acetylation of histone H3 in human foreskin keratinocytes*

Yonghua Zhang, Biochemistry, Hiremagalur Jayaram is the sponsor. *Pteroyl- γ -glutamate-cysteine synthesis and its application in folate receptor-mediated cancer cell targeting using folate-tethered liposomes*

Jiliang Zhou, Cellular and Integrative Physiology, Paul Herring is the sponsor. *Mechanisms Responsible for the Promoter-specific Effects of Myocardin*.

Guests were greeted with hors d'oeuvres, cocktails, and the floating notes from an acoustic guitar in the facility's grand hall. The Hulman River House's expansive wall of windows gave diners an extraordinary view while enjoying succulent beef and salmon.

Interim Chair Tom Hurley, Ph.D. remarked on Dr. Bowman's pioneering efforts as the sole lecturer in the medical biochemistry course for 17 years, capped by his tenure as the first chair of the newly formed Biochemistry Department in 1958. He served in that capacity till 1971 and retired in 1979. Dr. Bowman maintained a keen interest in support of new and ongoing investigative projects, regularly engaging investigators in lively hallway discussions of their trials, tribulations, and triumphs in research.

(Continued on p 4)

Bowman Award Dinner, *(continued from p3)*

As speaker for the event, David Crabb, M.D. shared his memories of Dr. Bowman, of the excellent post-doctoral mentoring he received at IUSOM, and his recollection of winning (and not winning!) a previous Bowman Award competition. Our heartfelt thanks go out to him for a thoughtful and entertaining glimpse into the postdoctoral experience.

As chair of this year's award selection committee, Debbie Thurmond, Ph.D. acknowledged the committee's difficulty of choosing between so many highly qualified applications. She thanked the committee members, Drs. Nuria Morral, Lawrence Quilliam, and David Skalnik, for their participation and efforts on behalf of the competition. Dr. Thurmond presented the **2nd Place Award** of \$500 to **Hanying Chen**. The 2005 **First Place Award** of \$1,000 went to **Helen Jiang**.

The event can be labeled a success mostly due to the post-docs' research efforts and their continuing quests of scientific discoveries. The Department honors all of the post-docs for their countless hours of lab work, recognizes the families of post-docs for their sacrifices and understanding, and acknowledges the time and resources provided by the numerous mentors who pay it forward for continuing post-doctoral research.

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Dr. Thurmond presents the First Place Award to Dr. Helen Jiang



Dr. Hanying Chen receives the Second Place Award from Dr. Thurmond



The Grand Hall at White River Gardens



Hulman River House Dining Room