

Letter from the Chair

By Dr. Kenneth Ramos

Our ability to fight human disease depends largely on advances in our understanding of the biochemical and molecular bases of health and disease. Molecular investigations of the inner workings of the cell, the genes that define complex biological networks, the proteins that regulate biological function, and the metabolic machinery that sets biological processes in motion, now dominate the landscape of science.

To that end, the Department of Biochemistry and Molecular Biology has embraced an aggressive biomedical research and educational agenda that promotes continued advances in our understanding of living systems. New recruitments and major upgrades in physical facilities, state-of-the-art equipment and centralized core facilities continue to propel the department to new highs. This is evidenced by the sustained quality of the teaching effort and funding of several multi-investigator initiatives in collaboration with our partners in the School of Medicine and the Belknap Campus.

I invite you to explore the exciting opportunities available in the Department. Join BMB students and faculty at the UofL Alumni and Friends reception held annually at the meeting of the American Society for Biochemistry and Molecular Biology or come join us at the 2006 BMB Research Retreat to be held General Butler State Resort Park on May 19-20.

Dr. Ramos is professor and chairman of the Department of Biochemistry and Molecular Biology and Director of the Center for Genetics and Molecular Medicine at the University of Louisville, Louisville, Kentucky. He was recruited to UofL in 2003 from Texas A&M University where he held a named professorship in Physiology and Pharmacology and directed a Center of Excellence in Environmental Health Sciences. His research focuses on transcriptional and post-transcriptional regulation of gene expression, genomic basis of environmental disease and inference of biological regulatory networks.

KB AND KD

(- all the news fit (or not) to print)

By Dr. Tom Geoghegan

Sharon Stack ('89 w Dr. Gray), Associate Professor of Cell and Molecular Biology at Northwestern



University's Feinberg School of Medicine, was recently featured in ASBMB news. Sharon was part of a four-member delegation headed by ASBMB president Judith Bond that traveled to the Peoples Republic of China to begin a dialog with biochemists and molecular biologists, and leaders in the Chinese life science societies.

Sharon is a member of the editorial board of JBC.

Mary Huff ('95 w Dr. Ellis), an Assistant Professor in the Biology Department at Bellarmine University, participated in this year's annual U of L Biomedical Sciences Career Forum for graduate students. The event has been organized since 1997 and introduces students to biomedical scientists who have developed successful careers in various fields from academics to industry and government. BMB graduates who have participated in past Career Forums are: Dave Ledden ('82 w Dr. Feldhoff - career forum 2000); Andrea Rose ('93 w Dr. Martin - career forum 1997); Hong Dang ('91 - w Dr. Ellis - career forum 2002); Pat Hess ('81 w Dr. Feldhoff - career forum 1997); and Steve Wagner ('86 w Dr. Gray - career forum 2002).

UNIVERSITY of LOUISVILLE
Health Sciences Center

Speaking of **Steve Wagner**, after working on amyloid proteins and Alzheimer's disease as a post-doc and research associate professor at UC Irvine, Steve started his first biotech company in 1991 (SIBIA Neurosciences) to develop markers of neurological disorders like Alzheimer's. In 1999 he sold that company, and co-founded his second company, TorreyPines Therapeutics (formally Neurogenetics Inc) in La Jolla CA. Steve is currently chief scientific officer at TorreyPines and continues to publish regularly (eight PubMed citations since 2000). In spite of a very busy schedule, Steve tries to return to Louisville at least once a year for - what else - the DERBY.

Evans Adunyah ('87 w Dr. Dean), has been Chair of Biochemistry and is now Chair of the newly formed Program in Cancer Biology at Meharry University School of Medicine. He is principle investigator on a \$15M NCI-funded Comprehensive Cancer Research Partnership with Vanderbilt University to study cancer incidence in minority populations. NCI recently awarded this grant to "help determine why African Americans are more likely to develop cancer and die from the disease. The study will enroll and follow 105,000 people, two-thirds of them African-American in six southeastern states". Evans received the U of L School of Medicine's alumni fellow of the year award in 2001. <http://www.louisville.edu/hsc/medmag/fw01/adunyah.html>. This fall he presented a seminar on "Human Interleukin-17 Signaling via PI-3Kinase/Akt and PKC-Dependent Mechanisms" in the Department as an invited guest of the Black Biomedical Graduate Student Association jointly sponsored by the Department of Biochemistry and Molecular Biology.



Kristi (Michael) Miller ('04 w Dr. Prough) is in her second year as Assistant Professor in the Department of Chemistry at the University of Evansville. After getting her feet wet last year, she says that the second year is going much more smoothly. Kristi is faculty advisor to the UE Chemistry Club and always looking for speakers to give talks (hint hint).

Jenne (Fitzpatrick) Fretland ('99 w Dr. Prough) is a scientist at Amgen in Thousand Oaks, CA. Reflecting back on her graduate training she recently wrote "... no matter what kind of job you take you must know the fundamentals of your field. Now that I work with such a diverse group of scientists (at Amgen) they all depend on me to know the biochemistry fundamentals: scatchard plots, enzyme kinetics, metabolic pathways, etc." We knew they would rely on Jenne!!

Tim Ramsey (MS '02 w Dr. Klinge) completed an MBA program at the Univ. of Chicago. He is currently at Eli Lilly, but in his "spare time" is acting as CEO helping Mark Brennan launch his new company, SureGene, developing genetic markers of schizophrenia (see other news and notes below).

Guo Jing Gao ('93 w Dr. Fonda - pictured with new BMB Chair Ken Ramos) and Dan Read ('02 w Dr. Gregg) visited with BMB faculty and students at a reception held at the 2004 ASBMB meet-



ings in Boston. The Department plans to host such a reception each year at the meetings and invites all alumni and friends to visit. For the upcoming ASBMB meeting in San Francisco (April 2006), Dr. Ramos is supporting a large contingent of graduate students to attend. So if your planning on being there, come on out and meet the new folks (and some old folks too).

Lt. Col. Stephen Davis, ('92 w Dr. Ellis) is with the National Guard in the Standardization & Evaluation Branch. He coordinates the Army National Guard's weapons of mass destruction terrorism response teams around the country and in his own words "translates the policies of Congress, the Department of Defense, and the National Guard Leadership into executable plans". Steve visited UofL on



October 17th and presented a talk on "Science-based assessment of Chemical, Biological, and Radiological Terrorist Events: The National Guard Weapons of Mass Destruction-Civil Support Teams". Steve was invited by BMB faculty member Dr. Eugenia Wang who recently spearheaded a drive to construct a regional BL3 facility with potential use in studies related to bio-defense (see other news and notes below).

Steve is not the only BMB graduate associated with the military, **Sr. Col. Dr. Suicha Tim Chitpatima** ('82 MS w Dr. R. Feldhoff) of the Thai Army (pictured above with US Gen. Joseph G. Webb, Jr., and U.S. Ambassador Darryl N. Johnson at the 13th Asia-Pacific Military Medical Conference) is in the Molecular Biology Laboratory at Phramongkutkiao College of Medicine. After completing his MS degree, Tim earned a Ph.D. from Tufts University with Dr. George Brawerman. Tim is director of the Office of International Affairs RTA Medical Department, and is interested in Technology and Telemedicine as it applies to health related problems in Thailand and Southeast Asia.

WELCOME HOME!

Four former students have returned to Faculty positions at UofL: Dennis Warner ('91 w Dr. Hoffman) is an Assistant Professor in the Department of Molecular, Cellular & Craniofacial Biology in the School of Dentistry's Birth Defects Center; Stephanie Johnson-Webb ('94 w Dr. Prough) is a Research Assistant Professor right here in Biochemistry and Molecular Biology. After post-doctoral work in Edinburgh, Scotland, Stephanie worked for KY State Government in the Office of the New Economy for several years before joining BMB; Dave Powell ('02 w Dr. McLeish) did post-doctoral work at Vanderbilt University with Andrew Link, and returned to U of L this summer as a Research Assistant Professor in Medicine involved in building and managing a clinical proteomics center. After post-doctoral stints in Genetics at Norton's Hospital and with Binks Wattenberg at the Brown Cancer Center, Amy (Tabb) Massey ('01 w

Dr. Ellis) joined the BMB faculty as Director of the newly formed BMB Office of Curriculum and Student Affairs. She will assume many of the duties previously handled by Glenda Hagan as well as new duties in teaching and curriculum development. As a fun part of her work, Amy is organizing this alumni newsletter.

Jackie Caffrey ('05 w Dr. Ellis) is a Clinical Chemistry Fellow in Dr. Roland Valdes' program. In addition to clinical responsibilities, Jackie's research involves studies related to resistance to Azathioprine in Crohn's disease and how this resistance is related to Rac1 polymorphisms.

If you have some other news about yourself or a fellowgraduate of the Department please email the information to tom.geoghegan@louisville.edu

CURRENT STUDENTS

The Department currently has 30 students in the Ph.D. program and 11 in the MS program. Recent graduates include: Jacqueline Caffrey (w Dr. Ellis), George Lominadze (w Dr. McLeish), Shi Gu (a.k.a. Sid) (w Dr. Geoghegan) Brian Clem (w Dr. Clark), Moazez Marian (w Dr. Borchman), Mary Costantino (w Dr. Brennan) and Awedis Kazanjian (w Dr. Grimes). Alicia Girvan (w Dr. Bates) can see "light at the end of the tunnel" and is expecting to finish up by the end of the year. Alicia recently gave birth to her second child Joshua; fourth-year student Kathleen Mattingly also gave birth to a daughter Rose, her first – Congratulations!!

New students in the Ph.D. program this year are: Allison Crosby (BS and DVM Auburn University) Maia Green (BS Allegheny University, MSThomas Jefferson University); Yoannis Imbert (BS University of Havana); Paul Johnson (BS Stonehill College, MA, Newton-Wellesley Hospital, MBA University of Illinois at Chicago); Joseph Moore (BS, UofL); Jill Pearing (BS, Boston University– pictured at right with Director of Curriculum and



Student Affairs, Amy Massey, during orientation); and in the MS program: Renate Cochrum (BS, UofL); Ermin Villa (BS, UofL); Huiyan Huang (BS, South China University of Technology; MS, University of Florida); Chongkham (Chrissy) Mekmaysy (BA, Centre College); Traci Kruer (BS, Purdue); and Pete Womack (BS, Indiana University).

AWARDS

Over the past several years BMB graduate students have competed successfully for pre-doctoral extramural fellowships. We congratulate current students with fellowship awards including: Adrian Nanez, NIH (Dr. Ramos lab); Matt West, AHA (Dr. Bhatnagar's lab); Brad Hill, AHA (Dr. Bhatnagar's lab); Erin Brock, AHA (Dr. Wattenberg's lab); and Alicia Girvan, Susan G. Komen Breast Cancer Research (Dr. Bates lab). In addition, the following students have been awarded competitive intramural fellowships: Krista (Robinson) Riggs, NIEHS training grant (Dr. Klinge's lab), Alan Kerr, IMD3 (Dr. Wttliff's lab). Alan Kerr also won first prize in 2005 Research Louisville's graduate student research day poster competition, Sarah Andres (Dr. Wttliff's lab) received an honorable mention.

FACULTY

The annual Fall picnic was held on September 30th (volleyball results are still pending official review and instant replay). It was good to see some of our retired faculty at the picnic including: Duncan Dallam, Jerry Hoffman (and Phyllis), Margaret Fonda (and George Herbner) and Mary Hilton (and Fritz). The Hoffmans traveled to Tampa with the UofL Football team in September, but were unable to cheer the Cards on to a win (the Cards lost 45-14 to South Florida). Jerry and Phyllis will be spending January back in Florida on Sanibel Island. Margaret and George will be visiting kids and grandkids in Salt Lake City and also traveling to Peru in the Fall. Duncan Dallam turns 80 this December, and is busy with his two grandchildren Jack (age nine) and Danielle (age sixteen). And speaking of grand kids, the Proughs have a new grandson, Emmett (age 20 months). Emmett and his parents (Jenny and Andy) live in Valparaiso, Indiana and teach at Valparaiso University.

NEW GRANT/CONTRACTS IN 2004-05-06

Paula Bates – Cancer Center (2004 – NIH R01) “A Role for Nucleolin in Malignant Transformation” 2004

Mark Brennan – Biochemistry (2005 – KSTC contract) to SureGene for R&D

Jason Chesney – Cancer Center (2005 – NIH R01) “Targeting of 6-Phosphofructo-2 kinase in Cancer”

Barbara Clark – Biochemistry (2005 – AHA) “JAK-2 signaling in angiotensin-II dependent adrenal steroids”

Doug Darling – Periodontics (2005 – NIH R21) “Identifying Periodontal Antigens By Protein Microarray”

Bill Dean – Biochemistry (2005 – AHA) “Mechanisms of inhibition of platelet activation by estrogen”

Steve Ellis - Biochemistry (2004 – NIH R01) “Ribosomal Function and Diamond-Blackfan Anemia”

Rick Feldhoff – Biochemistry (2004 – NSF) “The Evolution of Pheromone”

Ron Gregg - Biochemistry (2004 – NIH R01) “Zebrafish Mutant Mapping Facility”

Bob Gray – Biochemistry (2005 – KSTC contract) “Dispase for the Treatment of Diabetic Retinopathy”

Carrie Klinge – Biochemistry (2005 – AHA) “Mechanisms of Resveratrol and Estrogen Receptor Modulation”

Tom Knudson - Mol. Cell Craniofacial Biol. (2005 – NIH R21) “Response Signatures of Alcohol-Related Birth Defects”

Andrew Lane - Cancer Center (2005 – NIH R19) “Analytical Ultracentrifuge”

Bob Mitchell – Cancer Center (2004 – NIH R01) “Role of MIF in Rb inactivation and Tumorigenesis”

John Trent - Cancer Center (2005 – NIH R01) “Development of Nucleolin targeted Anticancer Compounds”

Eugenia Wang – Biochemistry (2005 – DARPA) “High Throughput Proteomic Profiling of Host-Resistance”

Binks Wattenberg - Cancer Center (2005 – NIH R01) “Sphingosine Kinase Compartmentalization in Tumorigenesis”

Jim Wttliff – Biochemistry (2004 – SBIR Phase III) “Estrogenic Compounds with hER-a and B” (2005 – Phi Beta Psi) “A Genomic Approach for Assessing Clinical Outcome of Breast Cancer”

Bill Young - Mol. Cell Craniofacial Biol. (2004 – NIH R03) “Ocular Surface Mucin ppGaNase Glycosyltransferases”

OTHER NEWS & NOTES

Nancy Martin and **Eugenia Wang** spearheaded an initiative to build an NIAI- funded BL3 facility on the Shelby Campus. The facility will be multi-user and house the Center for Predictive Medicine for Biodefense and Emerging Infectious Diseases. For more information go to:

<http://php.louisville.edu/community/biosafetylab/>

Paula Bates and **John Trent** recently sold their start-up biotech company, Aptamera, to the British based company, Antisoma. Aptamera had developed the use of GROs (G-rich oligonucleotides) for the treatment of cancer. A lead product, AGRO100, had gone through phase I clinical trials with no adverse effects. Antisoma will continue clinical trials on the drug. For more information go to: <http://www.antisoma.com/products/AS1411.asp>

Steve Ellis was named Research Director of the Diamond Blackfan Anemia Foundation. DBAF is a not-for-profit foundation whose mission is “to collectively and actively generate funds for the charitable and scientific purpose of furthering, by clinical study, laboratory research, publication and teaching, the knowledge of the disorder known as Diamond Blackfan Anemia (DBA)”. For more information about Steve's appointment go to: http://www.dbafoundation.org/DBA_05Spring.pdf

Mark Brennan has launched a new company, SureGene, whose initial goal is to bring to market a new genetic test for schizophrenia (the AssureGene™ schizophrenia test).

Lee Grimes has accepted a position at the University of Cincinnati. We are sad to see Lee leave but also happy for him and wish him luck in his new position. Lee was a joint faculty member associated with ICT and trained three Ph.D. students (Loretta Doan '04, Diego Montoya '05 and Awedis Kazanjian '05). He also taught in several Departmental courses including Molecular Biology, Biology of Cancer, and Laboratory Ethics.

LOOKING BACK- WORDS FROM A FORMER CHAIR

By Dr. Russell A. Prough

In assisting the Department in launching a newsletter, I agreed to review the successes and accomplishments of faculty who were recruited during my tenure as department chair. Each of these faculty members have been great additions to the Department and their accomplishments mean a lot to me. I will list them in the order they came to Louisville.

Steven R. Ellis: Steve has continued to be an outstanding teacher and researcher. In the last 5 years, he has won 3 Golden Apple Awards from the Medical Students and last year received the President's Award for Teaching in the Professional Category. I am always impressed by the way Steve uses his tough love approach to helping student achieve in the classroom and at the bench. He has also taken the plunge away from yeast to work on human bone marrow failure syndromes. His new 5-year NIH grant from the National Heart Lung and Blood Institute on ribosome defects related to Diamond-Blackfan Anemia has packed his laboratory to the ceiling with new people, new equipment, and new techniques. Steve even has his own transgenic mouse which has the LAMR1 (Sa ribosomal protein) gene deleted. The Department has recommended him for promotion to the rank of Professor and that triptych has been forwarded to the Promotions and Tenure Committee and Dean.

Nancy C. Martin: While we still see Nancy at seminars, faculty research conferences, and student defenses, she is heavily involved in her position as Senior Vice President for Research. Mind you, she asks the same penetrating questions as always! Many improvements in the research activities of the School and University have been seen due to her deep commitment to academic programs at UofL. She is the P.I. on the new grant to the University to develop a BL3 laboratory focusing on vaccine development. This represents a challenging and exciting new direction for the University, and I am certain she will continue to ask tough questions to

the new faculty and students associated with this new enterprise she will head up.

Mark D. Brennan: Mark took a sabbatical leave last year to launch a company, SureGene, LLC. Mark is leading a team of scientists employing quantitative genetics, in combination with bioinformatics, to identify genes influencing psychological diseases such as obsessive-compulsive disorder, bipolar disorder and schizophrenia. By genetically mapping genes that account for behavioral variation, they have been able to locate genes contributing to psychological abnormalities. He plans to license this information to pharmaceutical companies who can use it to aid in the development of new drugs as well for the accurate diagnosis and targeted treatment of psychological disorders. In addition, Mark's laboratory produced two Ph.D. students, Wei Wei and Mary Costantino, who had an outstanding dissertation on *Drosophila* genetics this fall.

Jaydev N. Dholakia: Jaydev has been working with graduate students in Ken Ramos' laboratory on some interesting oxidative stress projects. He also directs our Methods course, and yes the students love the new course as much as they love the old course. At least, he hasn't poured any precious student enzyme down the drain, like the former director did. He is also involved in the Dental Biochemistry course and the graduate Molecular Biology course.

Carrie M. Klinge: Yes, estrogen receptor is the center of the University and Carrie continues to find new forms of estrogen receptor and is studying the non-genomic regulation of genes by estrogen receptor. Her lab is quite full and well supported by the National Institutes of Diabetes and Digestive Diseases, the Susan B. Komen Foundation, and several state grants. Carrie's lab workers are all very busy keeping up with her. Carrie is also into developing training grants and appears to have successfully obtained a Summer Medical Student training grant and is turning her hand toward a NIDDK T32 Graduate Training grant. She was promoted to Professor on July 1, 2006, serves as a permanent member of a NIH Study Section, and remains her very busy, productive self.

Barbara J. Clark: Cholesterol transport and metabolism continues to be a difficult field to study and Barbara successfully stays ahead of the field looking at StAR protein and its functions. These are fund-

ed by the NIDDK and American Heart Association. Brian Clem completed his dissertation work with her and their work has received a lot of attention. Her lab is growing nearly as large as Carrie's!! Recently Barbara lead a team with Carrie Klinge, Zhen-mein Lei from Obstetrics & Gynecology, Chris States from Pharmacology & Toxicology, and Cindy Corbitt from Biology in a project focusing on the effects of arsenic on endocrine function. In fact, she recently won first prize at Research!Louisville 2005 for the Best Basic Research Project. Where will she put that huge crystal bowl in her tiny office?

Ronald G. Gregg: Ron's genetics expertise has allowed him to continue his outstanding research on the genetics of phototransducing mechanisms in the eye, funded by the National Eye Institute. Like Barbara and Carrie, his lab has become heavily populated and always busy with new molecular techniques, confocal microscopes, etc. He has also branched out into zebra fish genetics as a new animal models as part of a national consortium funded by the National Center for Research Resources. We soon will have the Biochemistry Aquarium on the 6th floor of the Tower to hold all these thousands of fish. Ron also oversees the Center for Genetics and Molecular Medicine Nucleic Acid core in the New Baxter 2 building.

Russell A. Prough: The Prough laboratory still focuses on P450s and other foreign compound metabolizing enzymes. Tom Geoghegan and Stephanie Webb remain important parts of our work, keeping us focused on new molecular technologies, cloning and the literature. Boaz Robinzon has returned for another sabbatical leave from Hebrew University in Jerusalem. The work on orphan receptors and dehydroepiandrosterone funded by the NIDDK continues to provide interesting mechanisms of transcriptional regulation, including estrogen receptor action with Carrie Klinge and other receptors with Barbara Clark. A new project has been established as part of an NIH Program Project grant from the National Institutes of Environmental Health Sciences with Aruni Bhatnagar, Daniel Conklin, Stanley D'Souza, Sumanth Prabhu, Bill Pierce and Sanjay Srivastava. This multi-investigator project grant focuses on the cardiovascular action of α,ω -unsaturated aldehydes formed as environmental pollution and endogenous processes such as lipid peroxidation. This project not only utilizes the molecular biology expertise of the laboratory, but has reestablished our chemical analysis

and protein expression/purification skills.

Eugenia Wang: Eugenia continues to expand the research faculty at the Gheens Center for Aging Research and pursuing her interests in biodefense research. Her projects span from the National Aeronautical and Space Administration, Defense Advanced Research Projects Agency, National Institute for Aging and the National Institute for Allergy and Infectious Diseases. She played a critical role in development of the proposal for the BL3 building grant with Nancy Martin and will oversee some of the proteomics research facility and development of a vaccine center. In addition, she is partnering with NASA Ames in preparing for the space flights to the Moon and Mars in the coming decade.

Faculty and Postdoctoral Fellows who have left: Gregory Schultz, Department of Obstetrics & Gynecology, University of Florida, Gainesville, Dr. Ronald Wiehle, Director of Research & Development, Zonagen, Inc., Woodlands, Texas; Salman M. Hyder, Zalk Missouri Professor of Tumor Angiogenesis, Dalton Cardiovascular Research Center Investigator and Associate Professor of Biomedical Sciences, University of Missouri

Prough Laboratory Postdocs.

Donald J. Tweedie, Ph.D., Director, Drug Metabolism and Pharmacokinetics, Boehringer-Ingelheim Pharmaceuticals, Inc., Danville, CN

Hui-Quiong Wu, Ph.D., Professor of Environmental Toxicology, Tongji Medical University, Wuhan, China

David Rodrigues, Ph.D., Director, Drug Metabolism and Pharmacokinetics, Bristol-Myers Squibb, Princeton, New Jersey

Xiang-Dong Lei, Ph.D.

Gong-Hua Xiao, Ph.D., Research Scientist, Health Canada, Ottawa, Canada

Keith Cameron Falkner, Ph.D., Assistant Professor of Biochemistry & Molecular Biology, U. Louisville.

Sharon L. Ripp, Senior Scientist, Pfizer Global Research & Development; Groton, CT

Viola Tamasi, Ph.D., Postdoctoral fellow with Urs Meyer, Biozentrum, Basel Schweitserland.

GRAD STUDENT CORNER

By Deanna Siow

Greetings to all Departmental Alumni and Friends! On behalf of the current graduate students, I am excited to have an opportunity to contribute to our new newsletter. I thought it might be fun to give you a brief overview of who we are and where we came from prior to making the Biochemistry department at U of L part of our academic journey. By the time you finish reading this, I think you will be pleasantly surprised with the level of diversity represented by the current student body.

At present, our department has 39 students enrolled in the graduate program. Of those, 11 are pursuing MS degrees while 28 are pursuing PhD. Our group of aspiring scientists is evenly divided in terms of gender, with 20 female and 19 male students sharing the long road of higher learning. Speaking of traveling on long roads...there seems to be a scarcity of 'Rest Area Ahead' signs on this particular pathway. Any ideas on when we might expect to see a few of these?

Collectively, we bring a rich background of undergraduate disciplines to the department, including Biology, Biochemistry, Chemistry, Genetic Engineering, Molecular Biology, Biotechnology, Medical Technology, Veterinary Medicine, Teratology, and Microbiology. These degrees have been awarded by colleges and universities both near and far. Within the state of Kentucky, students have attended University of Louisville, University of Kentucky, Bellarmine College, and Eastern Kentucky University. Kentucky's neighboring states are also well-represented with students earning degrees from Purdue and Indiana Universities; Fisk and Trevecca Nazarene Universities in Tennessee; Wittenberg University in Ohio; and University of Illinois. In addition, our department has drawn students from more distant locales like John Hopkins, Boston University, Clarion and Thomas Jefferson Universities in the Northeast, as well as smaller colleges from that area Keuka (upstate NY) and Stonehill (Massachusetts). Auburn University and Universities of Texas and Nebraska-Lincoln complete the USA connection. Our overseas connection comes from degrees awarded by the University of Zimbabwe, Nankai University

in China, University of Buea in Cameroon, and Ain Shams University in Cairo, Egypt.

Given the diversity of our backgrounds and the level of excitement we bring to our current research interests, rest assured we will make you proud to be part of the research history of the Biochemistry and Molecular Biology Department of the University of Louisville. We look forward to keeping you informed on what's new in the Department from the student perspective.

Faculty

Mark D. Brennan
Barbara J. Clark
William L. Dean
Jaydev N. Dholakia
Steven R. Ellis
K. Cameron Falkner
Richard C. Feldhoff
Pamela W. Feldhoff
Thomas E. Geoghegan
Robert D. Gray
Ronald G. Gregg
Carolyn M. Klinge
Yong Li
Nancy C. Martin
Amy T. Massey
Shin Murakami
Russell A. Prough
Kenneth S. Ramos (chair)
Vilius Stribinskis
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*You are cordially invited
to the U of L Alumni and Friends
Reception
at the American Society for Biochemistry
and Molecular Biology Annual Meeting.
Sunday, April 2
5-7 PM
Location-TBA
See program for details!*

We would love to hear from you! Please share news about where you are and what you are doing by filling out the postcard below or by sending an email to amy.massey@louisville.edu. We are also looking for photos (with annotation) to include in future newsletters and on our Department Homepage. Please send photos either by email or US mail to:

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