

DECEMBER 2008

The December 2008 issue of the KUMC Research Institute newsletter will be the last monthly issue of the newsletter. Beginning in 2009, the newsletter will be distributed bi-monthly.

THE DEPARTMENT OF OPHTHALMOLOGY/ KU EYE

BY REBECCA BOTHWELL

The Department of Ophthalmology / KU Eye at the University of Kansas moved into their new 17, 000 sq. ft. facility at 7400 State Line Road in Prairie Village, Kansas in June, 2007. This larger facility is about four miles south of the main campus and was selected to provide better patient access for the growing parts of Johnson County. KU Eye provides outpatient care across the spectrum of ophthalmology, including cornea and refractive surgery, neuro-ophthalmology, uveitis, optometry, ocular plastics, retina, glaucoma, and general ophthalmology. Many subspecialty services are offered such as low vision, contact lenses, confocal microscopy, corneal topography, fluorescein angiography, complete video and photography services, and electroretinography.

Surgeries continue to be done either at the University of Kansas Hospital in the Same-Day Unit or at the KU Med West Ambulatory Surgery Center. Refractive surgery procedures, a recent addition to the department's services, are done in the Durrie Vision offices on College Boulevard in Overland Park.

Under the new leadership of John Sutphin, MD, Chair of Ophthalmology since December 2006, the department has experienced a renewed commitment to research. Dr. Sutphin brings his evidence-based expertise in cornea and refractive surgery to the KUMC community after initiating refractive surgery in the US Navy and building a strong research program and refractive surgery practice at the University of Iowa. This area of research adds a new facet to the department's long-standing history of scientific contributions in low vision and collagen cross-linking for corneal healing by George Timberlake, PhD, and in retinal biophysics and imaging, macular disease, laser instrumentation, ocular light hazards, and physiological optics by Martin Mainster, MD, PhD.

Commitment to advancing the department's research programs is evident in the recent addition of a new faculty member, Andrew Symons, MD, PhD, who brings clinical and research expertise in the area of retinal disease management. The department is also seeking new faculty for an ophthalmic bio-engineering program and faculty for research in glaucoma and orbital diseases. A clinical research coordinator recently joined the team and will manage the regulatory and administrative aspects of the department's growing research programs.

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The offices of KU Eye at 7400 State Line Road, Prairie Village, Ks.

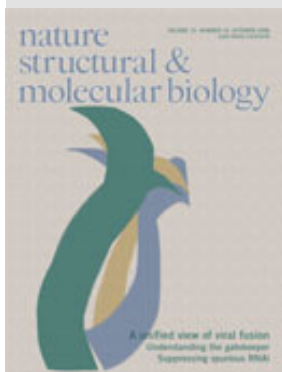


TODD HOLYOAK, PhD ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Dr. Todd Holyoak and Sarah Sullivan's paper "Enzymes with lid-gated active sites must operate by an induced fit mechanism instead of conformational selection", published in *PNAS, Proceedings of the National Academies of Sciences* in September, caught the attention of *Nature Structural & Molecular Biology*.

One of the areas of interest to the Holyoak Lab is to develop an understanding of the importance that the dynamic behavior of enzymes plays in an enzymes' ability to function as a biological catalyst. In the literature there are two primary models that have been presented to describe the linking of protein conformational dynamics with enzyme function and substrate recognition. These are the classic induced-fit model and the more recently proposed conformational selection model. The work described in the PNAS paper by Sullivan and Holyoak demonstrates that, contrary to popular opinion, the induced fit model is alive and well. Supporting this conclusion are their structural studies of complexes of the gluconeogenic enzyme phosphoenolpyruvate carboxykinase (PEPCK) that mimic catalytically relevant states of the enzyme during the catalytic cycle. These high-resolution crystallographic structures demonstrate that substrate association with the enzyme induces the enzyme to transition from a catalytically inactive conformation in which the 'lid' over the active site is open, to the 'lid-closed', active conformation once all substrates of the reaction are present at the active site. Further, the presence of both the active 'lid-closed' and inactive 'lid-open' conformations in the crystals used in the studies provide the first structural conformation of the encounter complex. The encounter complex is an intrinsic feature of the induced fit model that is absent in the conformational selection model.

The Holyoak lab hopes to be able to exploit these essential conformational changes in the design of novel inhibitors of PEPCK as anti-hyperglycemic agents in the treatment of diabetes.



<http://www.pnas.org/content/105/37/13829>
<http://www.nature.com/nsmb/journal/v15/n10/full/nsmb1008-1006.html>



NEW AWARDS

CONGRATULATIONS!

Kellerman, Rickey: United Methodist Health Ministry Fund for Improve Access and Quality of Care in The Smoky Hill Family Medicine Residency Program, \$49,500

Wellever, Anthony: Kansas Assn for the Medically Underserved [Sunflower Foundation] for Data Collection, Analysis and Report for "Access for all Kansans", \$10,000

Notices posted for new awards commencing between 10/16-11/15/2008.

From the Divisions

SPONSORED PROGRAMS ADMINISTRATION

NSF Proposal and Award Policies and Procedures Guide. Effective for proposals submitted on or after January 5, 2009. In the interim, the guidelines contained in NSF 08-1 continue to apply. Proposers responding to a funding opportunity with a due date on or after January 5th must comply with the guidelines in NSF 09-1.

http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/nsf091.pdf

GRANTS.GOV ADOBE FORMS UPDATE

IMPORTANT SPECIFICS:

- **NIH is moving forward with the transition as scheduled and the Adobe-based application forms will become available after December 5, 2008.** Applicants should access the FOA for which they are applying and download the new application forms after December 5.
- Adobe based application forms will be updated again in March/April 2009. Applicants will need to access their respective FOAs at that time to download the latest version of the application forms for receipt dates in May 2009 and beyond.
- **Grants.gov requires a specific version of Adobe Reader in order to open, download, save, and submit an Adobe application.** Compatible versions are listed on the Grants.gov site and are updated as they are produced (see the Download Software page). To ensure a smooth transition, **everyone who will work on an application must download Adobe Reader version 8.1.3 or later** – available at no cost from Grants.gov – and use it to open and complete their application(s).
- **Funding Opportunity Announcements (FOAs) with non-standard and standard submission dates expiring on or before January 31, 2009 will use PureEdge until the expiration date.**

A listing of the FOAs expiring 1/1/2009-1/31/2009 using PureEdge can be found on the Electronic Submission Web-Site.

REMINDER: Although the software has changed, the electronic submission process has NOT. The Adobe forms will look very similar to Pure Edge forms, and applicants are reminded that the overall process of finding opportunities, preparing forms and submitting applications will remain the same.

Applicants may work on all of the PDF attachments for the Research Plan and other components of the application now. These components of the application are not affected by the new Adobe forms. Please see the full announcement at:

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-020.html>

A new **Checklist** for New or Renewable Applications has been posted to the RI Sponsored Programs Administration website. Beginning **Dec. 1**, please use this checklist for proposal submission to the Pre-Award Office. The form may be found after Dec 1 on the following website:

http://www2.kumc.edu/researchinstitute/spa/SPA_Forms/spa_forms_pre_post.pdf

Use Research.gov's new *Research Spending and Results Service* to search recent awards made by NSF and the National Aeronautics and Space Administration (NASA). This site provides fast-and easy, on-line access to funding information from multiple agencies in one place:

<http://www.research.gov/rgov/anonymous.portal>

- Research.gov offers detailed information on federal support of scientific research around the country for NSF and NASA.
- Research grant awards are easily searchable by state and congressional district, agency and institutions, and award amount and date. The site also provides grantee services.

Applicants and awardees can check on the status of their proposals and submit financial reports.

Deborah Maloney has joined Sponsored Programs Administration as a pre-award grants specialist. She also retains her duties as policy coordinator for the Research Institute, and may be reached at 588-6570.

From the Divisions

SPONSORED PROGRAMS ADMINISTRATION

The Dec. 3 Deadline is Approaching Quickly!
Apply Online for NIH Loan Repayment Awards of Up to \$35,000 Per Year.

Applications are due for the 2009 NIH Loan Repayment Programs (LRPs) on December 3, 2008. Highly-qualified health professionals who are or will be pursuing biomedical or behavioral research are invited to visit www.lrp.nih.gov to learn more about the Programs and apply online.

The NIH Loan Repayment Programs (LRPs) allow scientific investigators to remain in the research workforce, achieve research independence, and focus their efforts on advancing the health of the nation without regard to student loan debt. Each year, some 1,600 research scientists benefit from the more than \$70 million NIH invests in their careers through the LRPs. The extramural LRPs include Clinical Research, Pediatric Research, Health Disparities Research, Contraception and Infertility Research, and Clinical Research for Individuals from Disadvantaged Backgrounds.

BENEFITS: New LRP contracts are awarded for a two-year period and repay up to \$35,000 of qualified educational debt annually. Participants may apply for competitive renewals, which are issued for one or two years. Undergraduate, graduate, medical school and other health professional school loans qualify for repayment. An NIH grant or other NIH funding is not required to apply for or participate in the LRPs.

ELIGIBILITY: Applicants must possess a doctoral-level degree (except for the Contraception and Infertility Research LRP); be a U.S. citizen, national, or permanent resident; devote 20 hours or more per week to conducting qualified research funded by a university, domestic nonprofit organization, or federal, state, or local government entity; and have qualified educational loan debt equal to or exceeding 20 percent of their institutional base salary (New applicants only).

QUESTIONS? Visit the LRP website at <http://www.lrp.nih.gov> for more information and to access the online application. For additional assistance, call or e-mail the LRP Information Center at (866) 849-4047 or lrp@nih.gov.

CONTRACTS

The Division of Contracts welcomes Donna Palatas to the position of contracts specialist. Donna may be reached at 8-5448.

ADMINISTRATION

Research Advisory Council Members approved KUMC Research Institute Policy 6.1.04: Payments to Independent Contractors. The Executive Vice Chancellor has signed this policy into effect. The policy may be accessed at <http://www2.kumc.edu/researchinstitute/spa/spapoliciesdetail.html>.

Elena Reyes has transferred from Sponsored Programs Administration Pre-Award to Administrative Services. She is now serving as the effort reporting grants specialist and may be reached at 8-5361.

KU CENTER FOR TECHNOLOGY COMMERCIALIZATION

KUCTC welcomes marketing intern John Siedlik to the KUMC campus. John may be reached at 588-0422.

KUMC staff have moved into their new office at 5019 Wescoe Pavilion. Phone numbers remain the same.

CLINICAL RESEARCH ADMINISTRATION

CRA welcomes clinical research administrators Kristi Portley and Brenda Thomson. Kristi may be reached at 588-1267 and Brenda may be reached at 588-1322.

2008 FACULTY RESEARCH DAY and Poster Session



Chancellors Club Research Awardee:
Carol E Smith, RN, PhD, School of Nursing

Investigator's Awardees:
Shilpa Buch, PhD, School of Medicine
Patricia S Pohl, PT, PhD, School of Allied Health
Kristine Williams, RN, PhD, School of Nursing

K-INBRE Faculty Scholars:
Jeffrey M Burns, MD, Alzheimer and Memory Program
Bryan L Copple, PhD, Pharmacology, Toxicology and Therapeutics
Margaret G (Peggy) Petroff, PhD, Anatomy and Cell Biology

Research Administrators Award:
Joanne McNair, Preventive Medicine & Public Health
Lori Wade, External Affairs

Thomas L. Noffsinger Investigator Award:
Navneet K Dhillon, PhD, Molecular and Integrative Physiology



The last week of November...

Nov. 27 & 28: Thanksgiving Holiday; Offices Closed.

SUN	MON	TUE	WED	THU	FRI	SAT
23/ 30	24	25	26	27	28	29

December 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Research Institute Calendar

Dec. 5: RI Winter Event; RI offices will close at 12:00pm.

Dec. 9: NCURA Workshop: Good Customer Service for Research Administrators, 9am-1pm, B018 SoN.

Dec. 25 & 26: Holiday; Offices Closed.



The Research Institute would like to thank the following individuals for their contribution to the December newsletter: Rebecca Bothwell, Ivy Feng, Todd Holyoak, PhD, Kathy Schleeter, and John Sutphin, MD.

Meet the Staff: Vickie Eaton

For more than thirty-five years, Vickie has been supporting the faculty and staff at the KU Medical Center. Her first position with KUMC was in the Outpatient Pediatric Clinic. After a brief stint on main campus in Lawrence, she returned to Kansas City in 1975 with a position in the division of Endocrinology. In 1980, she joined the Office of Research Administration (ORA). ORA merged with Graduate Studies in the early 1990's and became known as The Office of Graduate Studies and Research, then once again reorganized and became the Research Institute. At that time, Vickie served as director of research administration. Today, Vickie is a pre-award grants specialist and the funding information coordinator.



Working with the faculty and staff at the Medical Center is what keeps Vickie going. She enjoys the interaction with the researchers, and shares with them their energy and their enthusiasm. Witnessing the successes of the researchers she has assisted is one of the most satisfying aspects of her job. Vickie proudly declares that she loves her job and can't imagine herself doing anything else.

Away from the office, Vickie and her husband, Jim, go "geocaching." Geocaching is a high-tech treasure hunting game that utilizes GPS to explore and seek treasure. The pair also enjoy traveling and their goal is to visit all 50 states. Jim and Vickie are also the proud grandparents of eight and three-quarters grandchildren.

Meet the Staff: Doug Harris



Nine years ago, Doug came to the Research Institute from the City of Prairie Village where he had been an accountant. He joined the RI as a senior accountant and was promoted to post-award manager when the RI merged with grant accounting and began to process federal grants.

As post-award manager, Doug oversees eight post-award administrators. He and his staff support the department administrators from the time a grant is awarded and established through its conclusion. The post-award office monitors all expenses against the grant for compliance, invoice the funding sources to ensure monies are received, and complete the final financial reporting to funding agencies. Anything that occurs after the award stage goes through this office, and it is Doug's responsibility to ensure that these are accomplished in a timely and accurate manner. His philosophy is that he and his staff are present to deal with the accounting so that the researcher can be freed up to do what they do best: research.

The youngest of five, Doug grew up in Prairie Village, Ks, and is a graduate of Rockhurst University. He enjoys following sports, especially football and the Jayhawks. He admits he doesn't have a lot of time for extracurricular activities because he seems to be occupied most weekends with remodeling his home. He also has talent, as RI employees are aware, as an accomplished pie-maker.

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The RI Newsletter is also available on the KUMC Research Institute Website:

<http://www2.kumc.edu/researchinstitute/ri/newsletter.html>



December 9, 2008

9:00 AM – 1:00 PM

**B018 School of Nursing at
The University of Kansas Medical Center**

Please register at - <https://www2.kumc.edu/PDFATraining/>

Good Customer Service for Research Administrators

How to Support the Research Endeavor at Your Institution

With new demands emerging from sponsors, faculty and institutional management on a daily basis, how do Research Administrators define Good Customer Service?

Our panel of experts will examine *who* is the Customer and *what* constitutes Good Customer Service. They will look at the roles of the Central Sponsored Programs office and the role of the Departmental Administrator. The faculty will explore the elements of customer service that works both ways between central and departmental research administrators, and how this relationship is critical to good service to the ultimate customer: the PI. They will discuss approaches as to how to communicate to your customers in a way that lets them know that you are both working toward a common goal.

Some of the elements of customer service that will be covered are:

- Speed
- Accuracy
- Transparency
- Politeness
- Compliance

The Sponsor as the Customer will also be examined as good communication is critical to insuring that this customer is best served – while keeping your researchers content.

Moderator:

Kim Moreland, Associate Vice Chancellor of Research Administration, University of Wisconsin – Madison

Faculty:

David Richardson, Assistant Vice President for Research and Director, Office of Sponsored Programs, Pennsylvania State University

Cynthia White, Director, Sponsored Programs, Belmont University

To register for this event please visit <https://www2.kumc.edu/PDFATraining/> or for inquiries contact Kelly Robertson at krobertson@kumc.edu, or 913/588-5436

* Two 15-minute breaks are included – Light refreshments will be available – You are welcome to bring a sack lunch

** This is a DVD of the NCURATV program that was aired via satellite on September 9, 2008

Kelly Robertson: krobertson@kumc.edu

<https://www2.kumc.edu/PDFATraining/>