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PROGRESSING TOWARD KUMC'S 10-YEAR VISION

Every month, this Research Institute Newsletter will feature Centers or Institutes of the University of Kansas Medical Center, highlighting successes or enhancements as the Centers and Institutes evolve and offer another venue to increase publicity of the programs. This month, the RI would like to draw attention to The Liver Center and The Great Plains Diabetes Institute.

The recently inaugurated Liver Center includes over 40 researchers from several institutions in the Kansas City region who focus on many aspects of liver disease and dysfunction. The root of the Center's mission is to bridge basic science research with clinical investigations and doctor/patient interactions in order to prevent, detect, and treat liver disease and its complications. The past year, several programs have been initiated to enhance interdisciplinary collaboration in the liver research program. The Liver Club is a weekly seminar held during the fall and spring semesters to encourage dialogue between clinical physicians and basic research scientists. It also fosters a rich environment for junior researchers and established researchers to develop grant ideas and opportunities.

Dr. Yvonne Wan and the Liver Center Internal Advisory Committee have put

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NIH PUBLIC ACCESS POLICY IN EFFECT

The NIH Public Access Policy is now in effect. Peer-reviewed articles accepted for publication that resulted in whole or in part from NIH-funded research must be submitted to PubMed Central, the National Library of Medicine's digital archive.

More details: <http://publicaccess.nih.gov/>



Kansas Life Science Innovation Center / Maloney

Gregory S Kopf, PhD

Gregory S. Kopf, PhD, has taken the position of Executive Director of the Research Institute and Associate Vice Chancellor for Research Administration. Dr. Kopf brings an extensive and highly-regarded background in both the academic and business sectors. He obtained his PhD from Vanderbilt University and post doctoral fellowship at Scripps Institution of Oceanography in La Jolla, California. He then moved to the University of Pennsylvania where he rose through the academic ranks to a tenured full professorship and was later awarded an Endowed Professorship. From there, he continued on to Wyeth, a large pharmaceutical firm, where he assumed a leadership role and rose to the level of Assistant Vice President. His path now brings him to the University of Kansas Medical Center Research Institute.

"I am pleased and excited to be here at KUMC and I look forward to working with the faculty, administration and staff to enhance the biomedical research enterprise and to help achieve the goals set out in the 10-year vision of KUMC," said Dr. Kopf.

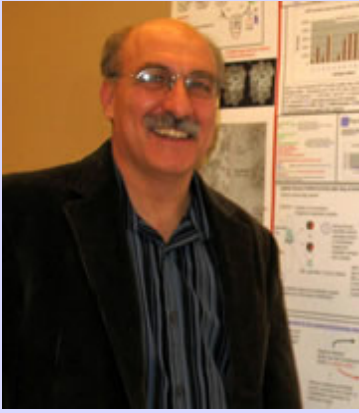
Please join the RI in welcoming Dr. Kopf to the KUMC community.



Gregory S. Kopf, PhD, Executive Director of the Research Institute and Associate Vice Chancellor for Research Administration

Mark T. Fisher, PhD, Professor

Department of Biochemistry and Molecular Biology



The Research Institute would like to recognize and congratulate Dr. Mark T. Fisher, along with his collaborators, Dr. R. John Collier and Blythe Janowiak from Harvard University ; Dr. Edward Gogol from University of Missouri—Kansas City; former student of Dr. Fisher and current Assistant Professor at William Jewell College, Scott Falke; graduate student Hiroo Katayama, who contributed all of the structural work; and the undergraduate researchers Marek Brzozowski and Jordan Jurcyk, for their publication in the prestigious *Nature Structural & Molecular Biology*. Available in full text and PDF form online (see link below), the Technical Report summarizes, in Dr. Fisher's words, "the first observation of the structure of the major anthrax toxin pore. This protein is the key delivery system that is responsible for transporting the other anthrax toxin proteins into cells where they elicit their toxic effects on cell viability. We used the chaperonin protein GroEL as a tool to stabilize and visualize toxin pore structure—commonly referred to as the Protective Antigen—using electron microscopy and single particle imaging using in-house computational methods."

Read more at <http://www.nature.com/nsmb/journal/v15/n7/pdf/nsmb.1422.pdf>

The 2007 journal impact factor (IF) of *Nature Structural & Molecular Biology*, published by Nature Publishing Group, ranks at 11.085 per ISI Journal Citation Reports. The IF of a journal measures the frequency a journal has been cited in a given year. This information allows for analysis of a particular journal's repute in its respective field. A ranking of 11.085 places *Nature Structural & Molecular Biology* among the top research journals in biochemistry and molecular biology.



Katayama H., Janowiak B.E., Brzozowski M., Jurcyk J., Falke S., Gogol E.P., Collier R.J., and Fisher M.T. (2008) "GroEL as a molecular scaffold for structural analysis of the anthrax toxin pore" *Nat. Struc. and Mol. Biol.* July Issue DOI 10.1038/nsmb.1442

PROGRESSING TOWARD KUMC'S 10-YEAR VISION

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together a stellar External Advisory Board made up of experts in various fields of liver research. The first annual Liver Symposium was held this past March, showcasing the talent in the Center. To learn more about The Liver Center, please go to <http://www.kumc.edu/livercenter/>. (B. Brede)

The establishment of The Great Plains Diabetes Institute (GPDI) is being led by Director David Robbins, MD, Scientific Director Lisa Stehno-Bittel, PhD, PT, and Executive Director Virginia Lewis. To date, the Institute has obtained offices renovated by KUMC and has appointed a National Scientific Advisory Committee to provide scientific leadership, aid in recruitment, and establish a local board that will offer fund-raising and awareness campaigns. The GPDI is also continuing in their goal of establishing an internal grant program that eventually would provide up to four grants per year for GPDI members.

A particular goal of the Institute is to form local partnerships in order to foster collaboration, promote awareness, attract new talent, advance clinical research and improve patient care. The Institute has already found support from the Kansas City Area Life Sciences Institute and the Stowers Institute for Medical Research. Children's Mercy Hospital has committed to the "expansion of existing collaborative effort in diabetes by the addition of faculty positions with focus on diabetes research, partial support for the first eminent scholar, contributions to collaborative research, expansion of clinical research, and determining the feasibility of a transition clinic for young adults with type 1 diabetes. It is likely that some of the faculty to be hired will have joint appointments—and laboratory space—at KUMC", said Dr. David Robbins. (GPDI Newsletter, Vol II, No 2, May 2008).

The GPDI has also established collaborative research groups and supports new grant submissions with pre-submission grant reviews. Please contact Dr. Lisa Stehno-Bittel at lbittel@kumc.edu for more information.

See the July 13 issue of Kansas City Star regarding the Kansas state-wide program to curb diabetes. In it, Dr. Robbins briefly addresses the university's goal of hiring additional staff in diabetes-related fields. You may read the article by clicking: <http://www.kansascity.com/115/story/702908.html>

Finally, The GPDI is currently working on creating a website. In the meantime, please feel free to contact Administrative Assistant Ben Duncan, bduncan@kumc.edu, or any of the directors for more information.

NEW AWARDS CONGRATULATIONS!

- * **Terranova, Paul:** Department of Commerce for *The Biomedical Entrepreneurial Research Incubator Renovation Project*, TOTAL AWARD \$3,000,000
- * **Andrews, Glen K:** NIH for *A Mouse Model of Acrodermatitis Enteropathica*, Direct \$1,062,500 / Indirect \$499,375 / TOTAL AWARD \$1,561,875
- * **Rongish, Brenda Jean:** NIH for *Computational Imaging of ECM During Avian Heart Morphogenesis*, Direct \$948,500 / Indirect \$376,000 / TOTAL AWARD \$1,324,500
- * **Quarles Jr, L. Darryl:** VasoGenix for *Determination of InVitro and ExVivo Bioactivity of three synthetic CGRP (vCGRP) analogs in comparison to human alpha CGRP*, Direct \$414,267 / Indirect \$194,705 / TOTAL AWARD \$608,705
- * **Timberlake, George T:** Veteran Affairs Medical Center for Manual Tasks, TOTAL AWARD \$165,314
- * **Williams, Rachel E:** NIH for *HIV-Encephalitis: Mechanisms for CXCL10 Induction in Astrocytes*, TOTAL AWARD \$55,533
- * **Rapoff, Michael A:** NIH for *Jointstrong Intervention for Juvenile Arthritis*, Direct \$220,000 / Indirect \$103,400 / TOTAL AWARD \$323,400
- * **Pierce, Janet D:** Department of Defense for *Lung and Diaphragm Damage at Varying Oxygen Levels and Ventilator Modes Post Hemorrhagic Shock*, Direct \$306,123 / Indirect \$143,877 / TOTAL AWARD \$450,000
- * **Shireman, Theresa I:** Kansas Health Policy Authority for *Medicaid Prescription Drug Expenditures: Trends and Details FY2005, FY2006 & FY2007*, Direct \$18,925 / Indirect \$8,895 / TOTAL AWARD \$27,820
- * **Delisle, Robert C:** Cystic Fibrosis Foundation for *Mucus Accumulation and Bacterial Overgrowth in the Small Intestine*, Direct \$90,000 / Indirect \$7,200 / TOTAL AWARD \$97,200
- * **Choi, In Young:** NIH for *Quantitative In Vivo Biomarkers of Oxidative Stress in Diabetes*, Direct \$275,000 / Indirect \$129,250 / TOTAL AWARD \$404,250
- * **Fields, Patrick E:** NIH for *Regulation of Gene Expression in the Th2 Cytokine Locus*, Direct \$275,000 / Indirect \$129,250 / TOTAL AWARD \$404,250
- * **Heitzman-Powell, Linda:** KS Social Rehabilitation Services for The Autism Training Program, TOTAL AWARD \$388,823
- * **Kumar, Tunuguntla Rajendra:** NIH for *Genes Regulated by Activin Receptor II Signaling in Gonadotropes*, Direct \$100,000 / Indirect \$47,000 / TOTAL AWARD \$147,000
- * **Barohn, Richard J:** Food and Drug Administration for *Phase II Therapeutic Trial of Mexiletine*, Direct \$248,145 / Indirect \$100,976 / TOTAL AWARD \$349,130
- * **Levine, Steven M:** Apotex Inc for *Responses to Deferiprone by T Cells from EAE and MS Subjects*, Direct \$27,000 / Indirect \$12,690 / TOTAL AWARD \$39,690
- * **Kimminau, Kim Schneider:** Sunflower Foundation for *What keeps you up at night*, Direct \$7,628 / Indirect \$763 / TOTAL AWARD \$8,391
- * **Kimminau, Kim Schneider:** Sunflower Foundation for Summer Internship, Direct \$10,500 / Indirect \$1,050 / TOTAL AWARD \$11,550
- * **Neuberger, John S:** Kansas City MO Health Department for *Evaluation of the Food Handler Training Program—Phase II*, TOTAL AWARD \$6,131
- * **Buch, Shilpa J:** National Institute of Mental Health for *Mechanism and Therapy of SHIV Encephalitis in Macaques*, Direct \$1,155,000 / Indirect \$542,852 / TOTAL AWARD \$1,697,852
- * **Prochasson, Phillippe S:** The Leukemia and Lymphoma Society for *Dynamic Interactions between the HIR and the SWI/SNF Complexes in the Transcriptional Regulation of the Histone Genes*, TOTAL AWARD \$95,000
- * **Moser, Scott E:** Assn of American Medical Colleges for Jaydoc Community Clinic Enhancement, TOTAL AWARD \$20,000
- * **Sittampalam, Gurusingham Sitta:** KUEA for Start-Up Account, TOTAL AWARD \$25,000
- * **McDowd, Joan M:** University of Nebraska-Lincoln for *Visual Attention in Aging: Bridging Experimental and Psychometric Approaches*, Direct \$150,685 / Indirect \$70,822 / TOTAL AWARD \$221,507
- * **Guo, Liejun:** NIH for *Tissue specific mechanism of FXR in suppressing bile-acid synthesis*, Direct \$850,000 / Indirect \$399,500 / TOTAL AWARD \$1,249,500
- * **Paschal, Angelia Marie Sanders:** E.C. Tyree Health and Dental Clinic for EC Tyree Healthy Smiles Program, TOTAL AWARD \$9,930
- * **Little Jr, Charles D:** National Heart, Lung, and Blood Institute for *Computational Biology of Vascular Cell Behavior*, Direct \$284,727 / Indirect \$117,500 / TOTAL AWARD \$402,227
- * **Berman, Nancy :** 2008 American Headache Society/Merck US Human Health Migraine & Women's Research Award for *A Rodent Behavioral Model of Menstrual Migraine*. TOTAL AWARD \$20,000

(Continued on page 4)

NEW AWARDS CONGRATULATIONS!

(Continued from page 3)

- * **Daley, Christine:** Health Care Foundation of Greater Kansas City for *Addressing health disparities among American Indians through primary care screening*, Direct 68,172 / Indirect \$68,172 / TOTAL AWARD \$74,989
- * **Clifford, R K:** Department of Health and Human Services for Advanced Education Nursing Traineeship (AENT) Program, TOTAL AWARD \$39,473
- * **Burns, Jeffrey M:** Kansas City Area Life Sciences Institute for *Parkinson's and Parkinson's Disease Dementia*, Direct \$22,727 / Indirect \$2,273 / TOTAL AWARD \$25,000
- * **Staker, Martha D:** KS Social Rehabilitation Services for Kansas Early Head Start (FY2009), Direct \$714,117 / Indirect \$116,708 / TOTAL AWARD \$830,825
- * **Nyght, Donna Susan:** Department of Health and Human Services for the Nurse Anesthetist Traineeship Program, TOTAL AWARD \$16,248
- * **Staker, Martha D:** Department of Health and Human Services for Project Eagle Early Head Start (FY2007), Direct \$1,572,178 / Indirect \$176,442 / TOTAL AWARD \$1,748,620
- * **Staker, Martha D:** KS Department of Health and Environment for Project HOPE Teen Pregnancy Cast Management Program FY09, TOTAL AWARD \$98,034
- * **Pinto, Cibele Secundino:** Polycystic Kidney Research Foundation for *Role of 14-3-3 and A-kinase Anchoring Proteins on cAMP-dependent B-Raf Signaling and Proliferation of ADPKD Cells*, Direct \$45,455 / Indirect \$4,545 / TOTAL AWARD \$50,000
- * **Luyendyk, James P :** American Heart Association for *Role of Tissue Factor and Coagulation in non-alcoholic Fatty Liver Disease*, Direct \$195,000 / Indirect \$19,500 / TOTAL AWARD \$214,500
- * **Honeck, Sararose:** Department of Health and Human Services for Scholarship for Disadvantaged Students - Allopathic Medicine, TOTAL AWARD \$32,667
- * **Yankee, Thomas M:** American Cancer Society for *Survival, Proliferation, and Differentiation in Early T Cell Development*, Direct \$600,000 / Indirect \$120,000 / TOTAL AWARD \$720,000
- * **Reese, Ronald M:** Department of Defense for *The Reliability and Validity of Autism Assessments and Diagnosis Using Telemedicine*, Direct \$75,000 / Indirect \$35,250 / TOTAL AWARD \$110,250
- * **Daley, Christine:** National Center on Minority Health and Health Disparities for *Using CBPR to Implement Smoking Cessation in an Urban American Indian Community*, Direct \$438,836 / Indirect \$149,704 / TOTAL AWARD \$588,540

AUGUST 2008

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24	25	26	27	28	29	30
31						

RESEARCH INSTITUTE CALENDAR

- * **August 1:** Research Grant Administrator Awards Request for Nominations Submission Deadline
- * **August 1:** Faculty Research Investigator Awards Request for Nominations Submission Deadline
- * **August 8:** Clinical Trials Financial Management for NEW Coordinators/ Administrative Personnel. Noon—1pm. Lunch is provided only if you pre-register; no walk-ins. Contact Patricia McFarland:
pmcfarla@kumc.edu

FROM THE DIVISIONS:

KU Center for Technology Commercialization

On July 1, The Research Institute's Division of Technology Transfer, Intellectual Property & Commercialization merged with KU-Lawrence's Office of Technology Transfer and Intellectual Property to form the KU Center for Technology Commercialization.

The newly formed Center will encourage the commercial development of intellectual property to enhance the research capability of the University to serve the public good. Although university research is not specifically undertaken to develop commercial products, important marketable discoveries can result from the research laboratory to the marketplace. Services include developing workshops and seminars on the technology transfer process for students, faculty and the public; identifying research inventions that may be developed into beneficial commercial products; working with inventors to protect inventions through the patenting, copyright, trade secret and trademark process; promoting collaborative research agreements with regional, national and international companies; working with inventors and commercial partners to transfer inventions to the public; fostering an entrepreneurial environment for faculty and students; developing opportunities for students to gain hands-on learning experiences; and supporting the University's mission of research, education and service.

KUCTC and the RI also welcome two licensing associates to the Center: Aswini Betha and Christopher Zien. Due to the unique role of the KUCTC, these gentlemen have phone numbers on both Kansas City and Lawrence campuses but the best way to contact them would be via e-mail: abetha@kumc.edu and czein@kumc.edu.

The Center has a newsletter that is distributed quarterly. Please contact ottip@ku.edu to be added to the subscription list, or go to www.ctc.ku.edu.

Sponsored Programs Administration: Pre-Award and Post-Award

The Pre-Award team would like you to be aware that Grants.gov is testing solutions

to the ongoing compatibility problems with Adobe Reader. As Adobe Reader 8.1.12 was released, it had been verified as compatible with Grants.gov; however, different versions of Adobe Reader are not compatible with each other and this has caused problems with Grants.gov. **To solve the Adobe Reader/Grants.gov problem, Grants.gov has placed a test application on its website:** <http://www.grants.gov/applicants/AdobeVersioningTestOnly.jsp>.

Testing for Adobe Reader 9.0 is complete and it is **now compatible with Grants.gov**. Applicants are required to have a compatible version of Adobe Reader installed to apply for grant applications. The compatible versions of Adobe Reader are available to download for free on the Grants.gov website at: http://www.grants.gov/help/download_software.jsp.

Application packages may now be posted in PureEdge and Adobe. The file extension is a way of distinguishing which application the proposer will be using -.xfd to identify PureEdge and .pdf for Adobe. Mandatory fields in PureEdge are in yellow; mandatory fields in Adobe are yellow inside of a red rectangle. The **target date** for agencies to be using Adobe is September 30. For those agencies unable to make the transition by that date, Grants.gov will continue to process PureEdge submissions through December 31.

Please welcome Barbara Lamoreaux to the position of SPA Administrative Assistant. Barbara may be reached at 8-1251 or blamoreaux@kumc.edu

FINANCE

The IRS has raised the mileage reimbursement rate to \$0.585 for travel beginning on or after July 1. This rate will be in effect beginning July 1, 2008 through December 31, 2008.

On July 31, the RI welcomed Vickie Mercer as the new Controller. Vickie comes to the RI from Big Brothers Big Sisters. You may contact Vickie at 8-5749.

Clinical Research Administration has a dedicated newsletter. Please contact mbuller@kumc.edu to be added to the e-mail distribution list.

ADMINISTRATION

The Division of Human Resources welcomes Brenda Dolan to the position of Human Resources Administrator. Brenda currently is located at the front desk of the RI and she may be contacted at the RI main number, 8-1261 or bdolan2@kumc.edu

All previously posted policies and procedures of the Research Institute have been updated, and more have been created or are in the process of being written. RI-generated policies affecting the Research Community are reviewed and approved by RAC (Research Advisory Council) and the Executive Vice Chancellor. These policies are at: <http://www2.kumc.edu/researchinstitute/spa/spapoliciesdetail.html>

ANNOUNCEMENTS

* **FY 2008—FY 2011 Facilities and Administrative (Indirect) Cost Rate**

KU Medial Center has received our new Facilities & Administrative Cost Rate (previously know as the Indirect Cost Rate). This rate agreement covers four years and applies to all rate categories. The first year applies to our current fiscal year 2008 and continues through fiscal year 2011. The following rates and categories have been awarded.

Organized Research

The Organized Research (OR) rate has been awarded at 50%. This rate replaces the previous 47% rate and should be applied to all current applicable award applications. Any awards made in Fiscal Year 2008 at the 47% rate will be reviewed on a case by case basis with the agency to see if an adjustment can be made.

Other Sponsored Activity

An Other Sponsored Activity (OSA) rate of 33% has been added to our rate agreement. This rate primarily includes Clinical Trials and Public Service type awards. However, it also includes miscellaneous awards not classified as Organized Research or Instructional. This rate replaces the previous 25% Clinical Trials rate and other various rates used for Public Service and miscellaneous awards. This rate should be applied to all current applicable award applications.

Instruction

The Instructional (INS) rate has been awarded at 41%. This rate replaces the previous 44.7% rate and should be applied to all current applicable award applications. Most federal instructional type grants are awarded at the predetermined 8%, however, some can be awarded at the full rate.

Any questions can be directed to Tim Siskey at 588-5313 or Mei-Shya Chen at 588-1259.

* **Research Grant Administrators Awards Request for Nominations**

Please submit **ORIGINAL AND 10 COPIES** of all supporting documents to Kelly Robertson, KUMC Research Institute, Mail Stop 1039, 6002 Wescoe, by **5:00pm, Friday, August 1**.

For details, go to the appropriate link at: http://www2.kumc.edu/researchinstitute/admin/funding_opportunities.html

* **Faculty Research Investigator Awards Request for Nominations**

Please submit **ORIGINAL AND 10 COPIES** of all supporting documents to your school's research committee, by **5:00pm, Friday, August 1**.

School of Medicine Research Committee, Doug Wright, PhD, MS 3050, 2087 KLSIC

School of Nursing Research Committee, Kristine Williams, RN, PhD, CS, FNP, MS 4043, 3049 SON

School of Allied Health Research Committee, Susan Carlson, PhD, MS 4013, 4019 Delp

For questions or additional information contact Kelly Robertson at 913/588-5436, krobertson@kumc.edu

For further instruction, go to the appropriate link at: http://www2.kumc.edu/researchinstitute/admin/funding_opportunities.html

* **2008 Faculty Research Day and Poster Session**

To participate in the Poster Session we ask that you please send your poster title, list of authors with departments represented **on or before September 15** to Kelly Robertson, KUMC Research Institute, Mail Stop 1039, 6002 Wescoe. For details, go to the appropriate link at: http://www2.kumc.edu/researchinstitute/admin/funding_opportunities.html

* **INTERNAL FACULTY BRIDGING FUNDING PROGRAM (FY 2009)**

Program Type: Bridging

Purpose: To provide interim support to those who have previously submitted grant applications to national organizations but were not awarded funding. The support would assist in providing the data needed to improve the proposal and enhance the succession rate of the application upon re-submission to the external agency.

Fall Bridging Deadline: September 8. For additional information, please go to:

http://www2.kumc.edu/researchinstitute/admin/funding_opportunities.html

Or contact Kimberly Barksdale at kbarksdale@kumc.edu



The Research Institute would like to thank the following individuals for their assistance and contribution to the August 2008 KUMC RI Newsletter: Barbara Brede, Ben Duncan, Dr. Mark Fisher, Amy Jordan Wooden, Virginia Lewis, Dr. Lisa Stehno-Bittel, Sarah Van Dalsem, and Dr. Yvonne Wan.

Questions, comments, submissions, subscribe/unsubscribe, please contact Deborah Maloney at dmaloney@kumc.edu. The RI Newsletter is also posted online in PDF at:

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