

# Graduate Affairs & Research

VOLUME I, ISSUE 4

DECEMBER, 2003



**COLLEGE OF PHARMACY**  
**UNIVERSITY OF OKLAHOMA**  
**HEALTH SCIENCES CENTER**

## Special points of interest:

- *Research handbook completed!*
- *Real time PCR now available!*
- *Lecture on Friday, January 16*
- *Announcement of BRIN summer program*

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## Research handbook completed!

The first edition of the Grants and Contracts Handbook for the College of Pharmacy has been completed and distributed to research faculty!

I developed a similar manual in my previous position as the co-director of the Parkinson and Movement Disorders Program at the University of California Irvine. I hope that the present document will be a useful resource for faculty here at the College of Pharmacy.

The handbook is designed to assist new investigators by providing step-by-step instructions on how to navigate the extramural funding process at OUHSC. In addition, the handbook provides helpful information on potential funding sources and research-related resources within the College and extended OUHSC campus. I hope that the information contained herein will benefit new and experienced investigators alike, and help us all achieve increased success.

*-Rae Matsumoto, Chair-Graduate Affairs and Research Committee.*



The OUHSC College of Pharmacy is clearly committed to the highest possible standards, aiming to achieve excellence in all that we do. Over the years, we have made significant contributions to the pharmacy profession and to our university. Our past accomplishments have set a firm foundation on which we can tackle with confidence the challenges of the future.

The importance of research in pharmacy continues to be emphasized by the American Association of Colleges of Pharmacy (AACP) and other professional and academic organizations. The 2002-2003 Report of the AACP Research and Graduate Affairs Committee reiterated the need for faculty members of colleges of pharmacy to be involved in interdisciplinary or multidisciplinary research programs, par-

ticularly those receiving funds from the National Institutes of Health.

Currently we are ranked 39th among US colleges of pharmacy in extramural research funding; even to be ranked in the top 25, we must at least triple the present level of outside support for our research. We can reach this admirable goal in the next five years only by increasing support for current research and by vigorous recruitment of new faculty who are already funded.

Hopefully, the information contained in this Research Handbook will help investigators at all levels to increase efforts to obtain and sustain extramural funding, which validates the quality of our performances through peer-review. Open scientific inquiry results in improvements in all academic and professional pursuits; maintaining a strong research environment is absolutely essential.

*- Douglas W. Voth, M.D.,  
Dean, College of Pharmacy*

## REAL TIME PCR NOW AVAILABLE AT PHARMACY

*Dr. Mike McShan just received a grant from the American Heart Association. His project is "The streptolysin regulator (sloR) of streptococcus pyogenes."*

Thanks to a Presbyterian Health Foundation Equipment Grant awarded to Dr. Rae Matsumoto, the College of Pharmacy now has a real time PCR within their core facilities. The ABI Prism 7000 Sequence Detection System from Applied Biosystems (Foster City, CA) is available to faculty and students in the College of Pharmacy. A completed users agreement and training is required prior to its usage.

The system is based on the proven and reliable ABI9700 thermal cycler, which uses peltier technology to heat and cool the reaction block. It uses standard size 200 ul PCR reaction tubes, or can accommodate a 96 well plate. The instrument is a complete "turn key" system, which can

accomplish all aspects of basic real time PCR. The system can support two homogeneous reaction chemistries, the fluorogenic 5' nuclease assay using TaqMan probes and the SYBR Green 1 double stranded DNA binding dye chemistry. It is supplied with emission filters that are optimized for FAM/SYBR Green 1, VIC/JOE, NED/TAMRA, and ROX dyes. The instrument is very sensitive and can distinguish between 5,000 and 10,000 template copies with an advertised 99.7% confidence level.

You can contact Dr. Randy Gallucci for details of the equipment and on procedures and training support at ext. 47188.

## 2003-2004 PHARMACY DISTINGUISHED LECTURE IN MOLECULAR SCIENCE IS JANUARY 16, 2004

Dr. Rodger McEver, Member, Cardiovascular Research Program at the Oklahoma Medical Research Foundation (OMRF), will be the 2003-2004 Pharmacology Molecular Science lecturer for the College of Pharmacy Dr. McEver's lecture is "Selectin-dependent leukocyte interactions with vascular surfaces."

The lecture is slated for Friday, January 16, 2004 at Noon at the College of Pharmacy in Rm. 103. It will also be broadcast live to the Schusterman Center in Tulsa, Classroom 1D33.

Dr. McEver joined the OMRF staff in

1987 and was recognized in 1997 with the NIH Merit Award and the Investigator Recognition Award. He serves on editorial boards for Journal of Clinical Investigation, Blood, Arteriosclerosis, Thrombosis and Vascular Biology and Journal of Biological Chemistry. He is a reviewer for several other journals and publications on review committee and study sections.

The lecture series was established by the college as a means of recognizing outstanding research in molecular science.

## NIH BRIN SUMMER UNDERGRADUATE RESEARCH PROGRAM ANNOUNCEMENT

### Call for Mentors

Oklahoma is the recipient of a major grant from the NIH Institutional Development Award (IDeA) Program to develop a Biomedical Research Infrastructure Network (BRIN). One of the BRIN initiatives is a summer undergraduate research program to expose promising students to the exciting world of research and as a mechanism for increasing the applicant pool for graduate programs in biomedical research at Oklahoma's comprehensive campuses. For the summer of 2004, we plan to support approximately 12 promising undergraduate students. The students will be selected from the three undergraduate institutions participating in the BRIN: Northeastern State University, Langston University, and Southwestern Oklahoma State University. The students may be placed with faculty mentors at these undergraduate institutions or at the BRIN graduate institutions: Oklahoma State University, the University of Tulsa, the Oklahoma Medical Research Foundation, OU Norman, and the OU Health Sciences Center.

Each student will receive a stipend of \$4,000 which should be more than adequate to pay living expenses over the 8 week summer research experience. In addition, each Mentor's laboratory will receive \$1,500 for lab supplies. An additional \$500 will be reserved for incidental expenses such as travel between the undergraduate and graduate campus during the Spring semester to visit the mentor and prepare for the summer research experience or for work study at the undergraduate campus before or after the summer experience.

If you are interested in serving as a faculty Mentor, please submit a one page description of your research including a brief description of the project envisioned for the summer student. In addition, please submit your current NIH-style Biographical Sketch. Please submit both documents via email in Word format to Erin Farish at [efarish@osrhe.edu](mailto:efarish@osrhe.edu) by January 30, 2004. Student selection and matching with Mentors will be completed by about March 15. Applications from prospective faculty mentors at the participating undergraduate campuses is strongly encouraged.

Please contact Frank Waxman, BRIN Director, at [fwaxman@osrhe.edu](mailto:fwaxman@osrhe.edu) or at 405-225-9459 if you have any questions.

## More News You Can Use Regarding Research

### OCAST DEADLINE APPROACHING FOR FY04 COMPETITION

Please note that the Letter of Intent deadline (which is required) is **Wednesday, January 7, 2004. The Application deadline is February 18, 2004.** You can obtain online information at:

<http://www.ocast.state.ok.us/PDF/OHRP-FY04.pdf>

Please keep in mind that the "Letter" of Intent is an actual form requesting specific information about your proposed research.

### CLINICAL OVERHEAD ASSESSMENT STARTED JULY 1, 2003

Effective July 1, 2003, central administration began assessing a 3% overhead charge against all clinical revenues, to include all PPP revenue. It was explained that the need for this assessment was identified through an audit and is necessary to assure support of expenses incurred in support of these activities by the University.

### EXCELLENT RECOMMENDATION OF A RESOURCE FOR WRITING GOOD GRANT PROPOSALS

Dr. Matsumoto would like to recommend an excellent resource book in referencing how to write good grant proposals.

The book is **Research Proposals: A Guide to Success** by Thomas E. Ogden and Israel A. Goldberg (3rd edition). Dr. Goldberg is President of Health Research Associates in Rockville, MD—an organization that consults with investigators on improving their grant writing skills. The Oklahoma Center for Neuroscience and the Center for

Toxicology have both utilized the services of this company in the past on behalf of their members.

### BUDGET JUSTIFICATIONS REQUIRED FOR ALL GRANT APPLICATIONS

Just a reminder—all grant applications must be reviewed by the ORA prior to submitting to the sponsoring agency. This procedure includes all electronic submissions as well.

It is also important to realize that all grant applications must have a budget justification sheet regardless of whether it is asked by the sponsoring agency—it is part of our university guidelines.

### REMINDER—ORA IS CLOSED FOR WINTER BREAK

ORA will be closed from Saturday, December 20<sup>th</sup> through Sunday, January 4<sup>th</sup> in accordance with the University's Winter Break schedule. Please submit all grant applications due during Winter Break to the Office of Research Administration before Friday, December 19<sup>th</sup>. Also, please allow time for internal routing within the College of Pharmacy.

### A QUESTION REGARDING % EFFORT AND SALARIES ON GRANTS

If in doubt regarding caps on the PI's % effort on a grant and the \$ amount, please refer to the RFA or PA. Most RO3s and R21s do not have a salary cap, but do have a total direct cost cap. Often, the cap will dictate how much you can plan for salaries. If you have a question, please contact Paula at ext. 47271.

### CONGRATULATIONS TO RAHUL PRADHAN

Rahul's master's thesis was entitled, "Population Pharmacokinetic Analysis of Propranolol Using a Simulated Clinical Trial." He defended on October 30, 2003.