



SCIENCE FOR THE BENEFIT OF HUMANITY

Center for Clinical and Translational Science e-NEWSLETTER

Center News

Center Establishes New Data Analysis Core Facility New Analysis Core Incorporates User Licenses for GeneSpring and Ingenuity

In response to the increasing need for advanced technology to analyze gene expression and associated data, the Rockefeller University Center for Clinical and Translational Science has created a new core facility. Led by Ed Barbour, Hospital Informatics Manager, and staffed by Natasha Levenkova and Nickolay Khazanov, the Center has obtained user licenses for GeneSpring GX and Ingenuity Pathways Analysis. Both of these products are now available to Center Investigators. GeneSpring GX is a powerful visualization and analysis solution tool designed for use with gene expression data. Regarded as the gold standard in desktop expression analysis, GeneSpring GX allows researchers to identify targets quickly and reliably. By providing statistically meaningful results, GeneSpring GX enables prediction of clinical outcomes and characterization of novel expression patterns. Ingenuity

Pathways Analysis (IPA) is a powerful tool for gaining biological insight from microarray or proteomics studies. It utilizes the world's largest curated database consisting of millions of individually modeled relationships among proteins, genes, complexes, cells, tissues, drugs, and diseases.

To facilitate efficient use of these powerful products, the new Analysis Core is also offering customized training programs that can be scheduled by contacting any of the core staff (see related article in this e-Newsletter). Individual advice about applying these tools is also available by contacting Natasha Levenkova directly at x8716 or nlevenkova@rockefeller.edu

For more information on these tools themselves contact www.genespring.com and www.ingenuity.com

Resources for Translational Research

Library Enhances Access to Resources for Translational Research

In response to the growing interest in translational research, the Rockefeller University library has begun a systematic review of its own holdings and its access to important electronic resources in translational research. A partial list of recently obtained resources follows.

The Association of American Medical Colleges (AAMC) produced a comprehensive monograph in 2006 on translational research, "Promoting translational and clinical science: the critical role of medical schools and teaching hospitals. Report of the AAMC's Task Force II on Clinical Research." It is available as a pdf

Recent books on clinical trial design and biostatistics include:

- Chow, Shein-Chung. ADAPTIVE DESIGN METHODS IN CLINICAL TRIALS. Chapman&Hall/ CRC Press. 2007 978-1584887768
- Dawson, Beth et al. BASIC AND CLINICAL BIOSTATISTICS. 4th ed. McGraw-Hill. 2004. 978-0071410175 (available at MSK and WCMC)
- Forthofer, Ron N. et al. BIOSTATISTICS:A GUIDE TO DESIGN, ANALYSIS, AND DISCOVERY. 2nd ed. Elsevier. 2007. 978-0123694928 (available at MSK)

Announcements

NCRR Cuts CTSA Budget

The National Institute of Health, National Center for Research Resources (NIH/NCRR) notified the 2006 CTSA recipient institutions of budget cuts. In addition to a 2007 cut of 2.9%, the Rockefeller University CTSA will receive a 5 percent budget reduction for the 2008 fiscal year. The new CTSA funding guidelines announced by NCRR on Tuesday September 18, 2007 will also affect the remaining years of the CTSA, as well as Rockefeller University's renewal application in 2011. The precise sizes of those future cuts have not yet been decided. The senior CTSA leadership is currently modifying its strategic plans for the implementation of new initiatives in Good Clinical Practice (GCP) and Information Technology in order to make the necessary budgetary adjustments. After these new strategic plans are completed, the Rockefeller University Advisory Committee for Clinical and Translational Science (ACCTS) will review the plans, make revisions, and approve a final plan for implementation.

CTSA Informatics Offers "Ingenuity" Workshop

Ingenuity Pathway Analysis (IPA) is a powerful tool for gaining biological insight from microarray or proteomics studies. It utilizes the world's largest curated database, consisting of millions of individually modeled relationships among proteins, genes, complexes, cells, tissues, drugs, and diseases. The "Introduction to Pathway Analysis with Ingenuity" workshop will provide introduction to basic and advanced IPA functionality and will feature a hands-on case study. It will offer participants time-saving tips on how to efficiently analyze their data by automatically integrating GeneSpring and Ingenuity.

Workshop: Introduction to Pathway Analysis With Ingenuity

Intended for: Life scientists new to Ingenuity who are planning to use it for microarray or proteomics data

When: January 22, 2008

For more information about this exciting workshop or to reserve your space, please contact Ms. Natasha Levenkova at ext. 8716 or nlevenkova@rockefeller.edu

New Staff Member Biographies

Mr. Laurent Laor joined the Center in September 2007 as the Manager of the Health Informations Systems department. Mr. Laor was the 2004 - 2006 recipient of a prestigious National Library of Medicine Fellowship in Health Science Informatics. He received his Bachelor of Arts in Computer Science from New York University and completed his training at Johns Hopkins University School of Medicine in July 2006. Previously, he consulted for and was later promoted to Chief Technology Officer at the Department of Urology for New York Presbyterian Hospital where he developed research and clinical information systems. Mr. Laor's goal is to migrate the hospital to an electronic medical record system. He will be redesigning the management of clinical information to meet the needs of investigators and to support the adoption of the principles of Good Clinical Practice. His contact information is: llaor@rockefeller.edu; (212)-327-7717

Mr. Justin O'Connor joined the University as Coordinator for Clinical and Translational Science Training on September 24, 2007. He is currently pursuing his Master's Degree in Public Administration at Baruch University. Prior to joining Rockefeller, Mr. O'Connor received a Bachelor of Arts in English in 2002 from Saint Francis College where his academic interests concentrated on studies of professional writing, psychology, and effective communication. At Rockefeller, he will aid in the administration of the Clinical Scholars program, including the KL2 program. In particular he will insure that Clinical Scholars have fulfilled all of the requirements for the Master's degree in Clinical and Translational Science. His contact information is: joconnor@rockefeller.edu; (212)-327-8709

Ms. Selima Taylor joined the Center's Clinical Research Support Office (CRSO) on September 4, 2007 as Assistant to the CRSO. Ms. Taylor has a Bachelor of Science in Health Policy and Administration from The Pennsylvania State University, where she was a Ronald McNair research fellow and a participant in an international research and training opportunity that enabled her to live in Cape Town, South Africa studying both HIV/AIDS interventions and smoking prevalence in Sub-Saharan Africa. Ms. Taylor is currently pursuing her Master's of Public Administration at NYU's Robert F. Wagner School of Public Service. As a graduate student, she has participated in the restructuring of the prestigious Annie E. Casey Foundation's Children and Family Fellowship, where she utilized her social science background to meet the unique needs of senior executives, within both the non-profit and public sectors. In the dual roles of CRSO Assistant, and Recruitment Assistant, her duties include facilitating the implementation of recruitment strategies developed by investigators and the Recruitment Staff, maintaining the screening and recruitment database, and helping to conduct the centralized screening and recruitment of research volunteers for timely enrollment into Rockefeller University clinical studies. Her contact information is: taylor@rockefeller.edu; (212)-327-7709

Ms. Suyan Tian joined the Center on July 9, 2007 as a Biostatistician. Ms. Tian received a Master's of Science in Biostatistics from Johns Hopkins University in 2007. During her time at Johns Hopkins she

New Clinical Scholars Elective in Pharmaceutical Research and Development

In order to provide Rockefeller University Clinical Scholars with an educational experience about pharmaceutical research and development, a new elective has been developed in collaboration with GlaxoSmithKline (GSK). Dr. Barry Coller and Dr. Jay Edelberg, Director, Cardiovascular Biomarkers, Clinical Pharmacology and Discovery Medicine at GlaxoSmithKline (GSK) have developed a one week course for the Clinical Scholars. The elective will be offered from June 23 - 27, 2008 in some combination at GSK North America headquarters in Philadelphia, PA and their facility in King of Prussia, PA.

The formal course objectives are to provide trainees with an understanding of pharmaceutical R&D, to improve the directed research efforts of academic clinical investigators and to promote more productive public-private collaborations in drug development. Clinical Scholars will prepare for the elective by reading specially designed materials prepared by GSK utilizing a case-based approach involving recently approved GSK drugs. The sessions will be interactive, with the GSK leaders directing the discussions. The topics that will be covered are:

- Early and Late Phase Clinical Trial Design
- Preclinical Development and Toxicology
- Regulatory Affairs
- Manufacturing Scaling and Production
- Medicinal Chemistry
- Biotatistics of Large Clinical Trials
- Team Building
- Timeline Management

Resources for Translational Research (continued from page 1)

- Glantz, Stanton A. PRIMER OF BIOSTATISTICS. 6th ed. McGraw-Hill. 2005. 978-0071447812 (available at WCMC)

Recent texts of interest include:

- Runge, Marschall and Cam Patterson. PRINCIPLES OF MOLECULAR MEDICINE. Humana Press. 2006 978-1588292025

- Schuster, Daniel P. and William J. Powers. TRANSLATIONAL AND EXPERIMENTAL CLINICAL RESEARCH. Lippincott Williams and Wilkens. 2005 978-0781755658 (available at WCMC and MSK)

Web resources of interest include:

- NCBI Bookshelf

This is a collection medical books that

are full text searchable on the NCBI website (<http://www.ncbi.nlm.nih.gov/sites/entrez?db=Books>)

- The Early Detection Research Network (EDRN) of the National Cancer Institute located at <http://edrn.nci.nih.gov/>

Journals

- Clinical and Translational Science (Blackwell)

- Journal of Investigative Medicine (available at WCMC)

- Journal of Clinical Investigation (available at Rockefeller)

- Journal of Translational Medicine (BioMedCentral)

- Molecular Medicine (Rockefeller has volumes 1-10 bound in storage.)

- Translational Research (Elsevier) (available at WCMC, But must go there for electronic full text)

- Nature Medicine

The library is prepared to purchase book titles that are not already available through MSK or Cornell. Journal articles from all the titles are available “on-demand” from the library’s interlibrary loan services and the library will consider subscribing to new titles as demand for them dictates.

New Staff Member Biographies (continued from page 2)

was a Research Assistant, working on multiple projects such as, collaborating with Dr. Rosa Crum on the Epidemiologic Catchment Area study and working with researchers from the PneumoADIP center and the Department of International Health to exam the world burden of childhood pneumococcal disease. Ms. Tian graduated from the University of Utah in 2003 with a Master’s of Science in Statistics where she worked on a Cystic Fibrosis Registry. Prior to that, she studied in China, receiving a Bachelors of Science in Mechanical Engineering from the East China University of Science and Technology in 1996. In her role as Biostatistician at the Center, Ms. Tian’s responsibilities will include collaborating with investigators in the design, planning and analysis of clinical trials and biomedical research, training investigators in statistical methods and software, and serving as a consultant on data analysis. Her contact information is: stian@rockefeller.edu; (212)-327-8119

Ms. Rachael Yoo joined the Clinical Research and Translation Facilitation

Office on September 17, 2007 as a Clinical Research Coordinator. She was previously in Mount Sinai Hospital in New York where she was involved with research in breast cancer. Ms. Yoo received a Master of Arts in Psychology in 2004 from Pace University. During her graduate studies, her research interests were in different learning and thinking styles. She has many years of clinical research experience in both industry and academic settings. In addition, she has a background in Business Administration/Marketing from the State University of New York at Buffalo. At the Center for Clinical and Translational Science, Ms. Yoo will focus on working with Clinical Scholars to facilitate new and ongoing research studies. Her contact information is: ryoo@rockefeller.edu; (212)-327-7978

Center Participates in Community Health Education

was a Research Assistant, working on multiple projects such as, collaborating with Dr. Rosa Crum on the Epidemiologic Catchment Area study and working with researchers from the PneumoADIP center and the Department of International Health to exam the world burden of childhood pneumococcal disease. Ms. Tian graduated from the University of Utah in 2003 with a Master’s of Science in Statistics where she worked on a Cystic Fibrosis Registry. Prior to that, she studied in China, receiving a Bachelors of Science in Mechanical Engineering from the East China University of Science and Technology in 1996. In her role as Biostatistician at the Center, Ms. Tian’s responsibilities will include collaborating with investigators in the design, planning and analysis of clinical trials and biomedical research, training investigators in statistical methods and software, and serving as a consultant on data analysis. Her contact information is: stian@rockefeller.edu; (212)-327-8119

Ms. Rachael Yoo joined the Clinical Research and Translation Facilitation Office on September 17, 2007 as a