

the cell



UPCOMING EVENTS

BMBCB Departmental Seminar Series: Faculty Search

12:30 PM
Pancoe Auditorium
2205 Campus Drive
For updates visit: [http://
biochem.northwestern.edu/news.html](http://biochem.northwestern.edu/news.html)

Thursday, March 3
Protein Interactions
Dr. Stanley Fields
University of Washington

Monday, March 14
time TBA
*Armed bacteria: Structural Insights into
the assembly of the type III protein
secretion machinery revealed by three-
dimensional electron cryomicroscopy*
Dr. Tom Marlovits
Yale University

Thursday, March 17
*Homology-directed genetic surveillance
mechanisms*
Dr. Andrew Fire
Stanford University

Friday, March 18
2:00 PM, Cook 3118
*Molecular chaperones - cellular machines
for protein folding*
Dr. Johannes Buchner Technische
Universität München

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IBIS WELCOMES A NEW ASSISTANT DIRECTOR

Nick Woell
Editor

The Interdepartmental Biological Sciences (IBiS) program welcomes its new assistant director: Dr. Alexandra "Sacha" Patera.

Dr. Patera has contributed to science at Northwestern University for over a decade. After receiving her PhD in Chemistry from Brandeis University in 1994 researching protein structure by NMR, she worked as a post doctoral fellow in the Mondragon Lab and later as a research associate in the Department of Molecular Pharmacology at the Medical School. She has been a professor of biological sciences at the School of Continuing Studies since 1998.



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ROBOTICS FACILITY APPOINTS DIRECTOR



The new Facility for Automated High Throughput Analysis announces its first director: Dr. Joseph Rich.

Rich has been crafting his expertise in high throughput analysis since he received his doctorate in chemical and biochemical engineering from the University of Iowa in 1996. He was one of the first employees of a startup company, EnzyMed, founded by his thesis advisor, that focused on using enzymes to generate novel derivatives of pharmaceutical lead compounds. After

EnzyMed was acquired by Albany Molecular Research, Rich was given the position of section head, where he was responsible for biocatalytic synthesis, lab automation and analytical chemistry.

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New IBiS Assistant Director

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Familiar with the goals and concerns of all participants in an academic setting, her experience in both teaching and research makes Patera especially well suited to act as a liaison for IBiS faculty, students and staff. "This is an ideal environment with colleagues that I know and respect," says Patera. "Besides having the opportunity to use my background in science and mentor students, I will actively participate in developing a grander vision for the program, adding to the already strong commitment that Northwestern is putting toward excellence in research."

Patera stresses that her primary goal is to attract exceptional students and generate superior graduates who will be shining examples of the program's quality. "At the top of my list is to make the program the best it can be, focusing on input and output," Patera notes. "We can advertise the program as much as we want, but we must continue to raise the excellence of our alumni if we want to be successful in attracting the next generation of top students."

In addition to her research experience at Northwestern, Patera had the rare opportunity to work on a protein crystallization experiment that was sent to the Soviet space station MIR in 1989. Fluent in Russian, Patera served as a translator on a delegation that traveled to Kazakhstan to prepare an unmanned rocket that took off from the same launch pad used by Yuri Gagarin, the first man in space.

To hear more of Sacha's adventures, please welcome her in her new office in Hogan 2-100. Or feel free to contact her at a-patera@northwestern.edu, (847) 467-0451.

New Robotics Facility Director

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As director of the NU's robotics facility Rich's role is to assist researchers in applying automation to their projects. "High throughput dramatically increases the speed of research allowing you to do many more experiments in less time," Rich explains. "Letting robots do the mundane tasks also allows students and faculty to spend more time on the creative aspects of research."

Rich's first goal is make the recently purchased equipment operational as quickly as possible. In doing so he has begun working with a few researchers who have helped him determine which robots are in the highest demand. Eventually Rich hopes to acquire more equipment and expand the facility's capacity to provide not only high throughput screening but also high content screening, which allows for the same throughput but with higher quality information.

"Conceivably it will apply to almost every science department on campus," Rich adds, underscoring the facility's universality. "I welcome the challenge of starting this facility and collaborating with many different researchers from several departments."

Please welcome Joe at the Facility for High Throughput Analysis in Hogan 4-140, (847) 491-5960, or in his office in Pancoe 3-405, (847) 491-5643, j-rich@northwestern.edu.

UPCOMING EVENTS

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Tuesday, March 29

3:45 PM

Mouse Models and Molecular Targeted Therapies: Eliminating Brain Tumors with Sonic Hedgehog Pathway Inhibitors

Dr. Tom Curran

St. Jude Children's Research Hospital

Thursday, March 31

TBA

Dr. Greg Hannon

Cold Spring Harbor

Pathway to the Professoriate

The Tenure Process

David Ferster & Ishwar Radhakrishnan

Thursday, March 24

12:00-1:25PM

Pancoe 3103

Hormone Action and Signal Transduction Section Mini-Symposium

Regulatory Mechanisms in Signal Transduction

Thursday, March 10

8:00-9:30AM

Vanderwicken Library Olson Bldg. 8260

Chicago Campus

ISO ANNOUNCEMENTS



ISO Student Seminar

Friday, March 11

11:30 am, Cook 3118

Bagel Break

Friday, March 18

3:30 pm, Cook 3118

NEW PEOPLE



Please extend a warm welcome to these individuals who have recently joined our department:


Janet Hermez is a new Administrative Assistant in the Horvath Lab.

Alexandra "Sacha" Patera is the new Assistant Director of the IBIS Program.

Joseph Rich is the new Director of the Facility for Automated High Throughput Analysis.

Kerith Thomas is a new Administrative Assistant in the Bass Lab.

SUBMISSIONS

 **The Cell** is published monthly by the Department of Biochemistry, Molecular Biology and Cell Biology at Northwestern University.

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The Cell

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EMPLOYMENT OPPORTUNITIES



A list of available and desired jobs relevant to the Department of Biochemistry, Molecular Biology and Cell Biology.

Post-doctoral Position

University of Texas Health Sciences Center – San Antonio, Texas

The Infectious Diseases Laboratory at the University of Texas Health Sciences Center at San Antonio seeks post-doctoral fellow to study *Candida* fungal pathogenesis using molecular biology, cell biology, genomic, and proteomic approaches as part of an active mycology research group. The laboratory is studying the secretion of virulence-associated proteins in *C. albicans*, identification of novel secretory proteins involved in pathogenesis, and novel markers of invasive fungal infections. A Ph.D in biological sciences and a strong research background, preferably with yeast cell biology and/or functional genomics, is required. The San Antonio Center for Medical Mycology is a collaborative group of more than 11 investigators with a diverse and broad expertise in mycology and more than \$16 million in active support. UTHSCA and the Audie Murphy VA Medical Center is an equal opportunity employer. For more information contact:

Samuel Lee
Samuel.Lee@yale.edu

Medical Writer

Access Medical Group, Ltd. – Chicago, IL

ACCESS Medical Group, Ltd., a medical communications and education company in Chicago, is seeking a Medical Writer to develop marketing and medical education materials. Candidates should have a demonstrated ability to analyze and interpret scientific and clinical data, excellent written communication skills, organized thought and work habits, and be detail and deadline oriented. PhD or PharmD required. Working knowledge of AMA style, Microsoft Word, and PowerPoint essential; Pharma experience a plus. Interested candidates should send their resume by fax or email to:

Jeff Stockton
jstockton@access-medical.com
Fax: (847) 392-2257

Non-Tenure Research Assistant Professor Biochemistry and Biophysics
University of Pennsylvania School of Medicine – Philadelphia, PA

The Department of Biochemistry and Biophysics at the University of Pennsylvania School of Medicine seeks candidates for a Research Assistant Professor position in the non-tenure track. The successful

applicant must have a Ph.D. and will have worked in the field of protein physical chemistry. Experience in recombinant protein expression, isolation and purification; protein stability and folding; and protein structure analysis using fluorescence and NMR spectroscopy is required. Five or more years of postdoctoral experience and demonstrated expertise and publications in the area of protein physical chemistry are required. The effective date of the appointment will be June 1, 2005. Please submit a letter of interest, curriculum vitae, research efforts statement and have three letters of reference sent to:

Ruth Keris
Staff Assistant
Department of Biochemistry and Biophysics
University of Pennsylvania School of medicine
245A Anatomy-Chemistry Building
Philadelphia, PA 19104-6509

Cell Biologist or Protein Chemist

Alzheimer's disease Research Lab – Evanston IL

Under the general supervision of the principal investigator, the candidate should be able to conduct independent research in the area of neurodegenerative disease. The candidate should have a PhD (or 5+ years as a research associate) in cell biology, biochemistry or related field and knowledge of the field of neurodegeneration. The qualified candidate will be required to contribute to the conception and execution of experiments, prepare presentations and manuscripts for publication, write relevant sections of grant applications, participate in divisional seminars, Journal club and meetings and supervise research assistants and students.

1: Cell (molecular) Biologist. The project requires the candidate to be proficient in the following lab techniques: culture of mammalian cell lines, dissection and culture of primary glia and neurons (mouse), transfection of mammalian cells, cellular fractionation, receptor-mediated uptake and intracellular trafficking (gel electrophoresis and Western blotting, cell viability assays, RT-PCR, and general cloning procedures).

2: Protein Chemist. The project focuses on protein/protein interactions. Experience with one or more of the following areas: atomic force microscopy or transmission electron microscopy, protein isolation by HPLC and FPLC, assay development, monoclonal antibody production and characterization, fluorescent or electrochemiluminescent or luminescent assay systems, Biacore, CD spectroscopy, dynamic or static laser light scattering, analytical ultracentrifugation, MALDI or LC/MS. Contact Lani Witt for more information:

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laniwitt@enhri.birl.nwu.edu



NORTHWESTERN UNIVERSITY

NOW ACCEPTING: EVENT ANNOUNCEMENTS, ARTICLE IDEAS, EMPLOYMENT OPPORTUNITIES, POSITIONS WANTED AND GENERAL ANNOUNCEMENTS.

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The Cell

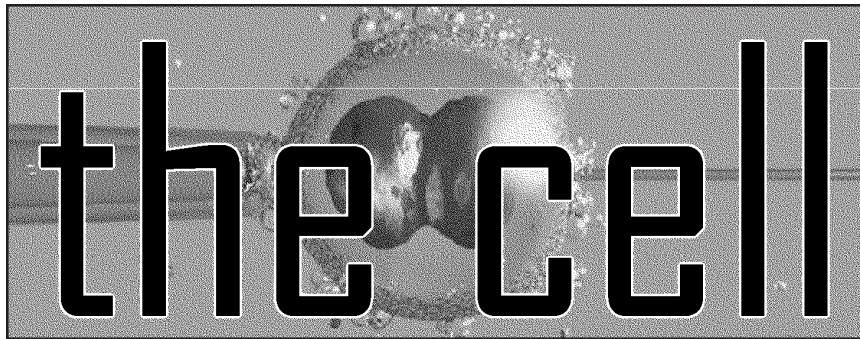
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