

Rockefeller University

**Digital Commons @ RU**

---

News and Notes 2000

The Rockefeller University News and Notes

---

11-17-2000

## **NEWS AND NOTES 2000, VOL.12, NO.9**

The Rockefeller University

Follow this and additional works at: [https://digitalcommons.rockefeller.edu/news\\_and\\_notes\\_2000](https://digitalcommons.rockefeller.edu/news_and_notes_2000)

---



# news & notes

THE NEWSLETTER OF THE ROCKEFELLER UNIVERSITY

FRIDAY LECTURE

## Lindquist to discuss evolution at the molecular level

Susan Lindquist, the Albert D. Lasker Professor of Medical Science at the University of Chicago and an investigator at the Howard Hughes Medical Institute, will give the Friday lecture today (Nov. 10). Lindquist's topic will be "Molecular Capacitors for Evolutionary Change."

Changes in protein conformation and assembly govern most processes in cell biology; correspondingly, defects in conformation and assembly are responsible for many pathologies. Lindquist's laboratory studies protein conformational changes, their biological consequences and the cellular mechanisms that control them.

Proteins are composed of long chains of amino acids in many different combinations. For proteins to function properly, it is essential that they fold into just the right structure. Some proteins also need to change their structures at just the right time, in just the right place. In the concentrated environment of the cell, however, sticky amino acids readily associate with the wrong partners, making it difficult for proteins to fold and to change conformations appropriately.

To cope with this problem, all cells produce a special group of proteins dedicated to helping other proteins assume their proper conformations. These are called molecular chaperones by

*continued on page 2*



Hand copy

Today's speaker, Susan Lindquist, is the Albert D. Lasker Professor of Medical Science at the University of Chicago and an HHMI investigator.

## Trustees promote two faculty members

Two faculty members were promoted at the most recent meeting of the Board of Trustees on Wed., Nov. 8. Sanford Simon, head of the Laboratory of Cellular Biophysics, was promoted from associate professor to professor. Tom Muir, head of the Selma and Lawrence Ruben Laboratory of Synthetic Protein Chemistry, was promoted from assistant professor to associate professor.

### Sanford Simon

All cells and their organelles are enveloped by a membrane. These membranes function as barriers that separate a cell from its environment, an organelle from the cytosol. However, cells cannot exist in isolation of their environment; they must be able to take

up various nutrients and discard wastes. Simon and the members of his lab study how cells modify the permeability of their membranes to allow only select molecules to pass.

It has been known for many years that small ions cross membranes through water-filled channels, such as the potassium channel studied by Professor and HHMI Investigator Roderick MacKinnon. Simon and his colleagues try to elucidate the mechanisms by which other molecules either cross or are sewn into the membranes. The researchers are interested in the general principles that regulate membrane permeability. Thus, the subjects of their study include

the small chemotherapeutics that are used in cancer treatment, proteins that cross the membranes of the endoplasmic reticulum (required for secretion in all cells), proteins that integrate into membranes (required for assembling all receptors on the surface of our cells), the transport of large macromolecular complexes across membranes (involved in export of filamentous bacteriophage and bacterial toxins) and the mechanisms by which vesicles fuse to a membrane to transport many molecules across in one large delivery (involved in hormone release and transmission between nerve cells).

*continued on page 2*



#00-009



#99-096

Sanford Simon (top) was promoted to professor. Tom Muir was promoted to associate professor.

## Cohn forum to address role of regulation on research

At the next Cohn Forum, on Mon., Nov. 27, Michael A. Friedman, senior vice president for clinical affairs at Searle Research and Development and a former deputy commissioner for operations at the U.S. Food and Drug Administration, will discuss "How a Formal Regulatory Environment Affects Biomedical Research."

"As a society, we are barely managing to incorporate new biomedical science into our daily lives, and we are on the threshold of even greater opportunities and challenges," says Friedman. In a formal regulatory environment, the legal culture and the scien-

tific culture are in a complex relationship. Friedman will discuss how government regulations affect biomedical research.

Friedman joined Searle in July 1999. Responsible for directing strategy and implementation of clinical activities, he supports the management of Searle's portfolio of clinical research products and expedites the development of nutritional product candidates within the Monsanto Life Sciences program.

Friedman served as deputy commissioner at the FDA from 1995 to 1999, and he was acting commissioner and lead deputy com-

missioner of food and drugs from 1997 to 1998. Before joining the FDA, he was associate director of the Cancer Therapy Evaluation Program from 1988 to 1995, and from 1985 to 1988 served as chief of the Clinical Investigation Branch of the Cancer Treatment Division at the National Cancer Institute. A career Public Health Service Commissioned Corps member, he held the rank of assistant surgeon general.

Friedman received his medical degree from the University of Texas Southwestern Medical Center and completed postgraduate medical training at Stanford University and the National

Cancer Institute. He is board certified in internal medicine and in medical oncology.

The Rockefeller University's Zanvil A. Cohn Forum on Health Affairs is a series of colloquia on issues in health and biomedicine. Friedman's lecture will take place in the Abby Aldrich Rockefeller Dining Room at 5:30 p.m. and will be preceded by a reception at 5:00 p.m. All are welcome.

The Cohn Forum's Web site is <http://www.rockefeller.edu/pubinfo.cohn.html>.

## Centennial lecture focuses on "68th & York"

A Centennial Lecture on Science and Society entitled "The Future of Research at 68th & York" was part of the Archive Center's history conference this week. The lecture was given by (from right to left) Rockefeller University President Arnold J. Levine, Herbert Pardes, president of NewYork-Presbyterian Hospital; Harold Varmus, president of the Memorial Sloan-Kettering Cancer Center; and Antonio Gotto, dean of Weill Medical College of Cornell University.



#00-054 D

Many scientists from Rockefeller and other institutions attended the lecture. Below: Rockefeller Professor Mary Jeanne Kreek (left) speaks with Columbia University Professor Nancy Wexler.



#00-053 B



Left: A reception was held at the President's House before the lecture.

#00-053 B

- 2 AROUND CAMPUS
- 3 IN THE LAB
- 4 CALENDAR

**Benefits enrollment**

It's that time of year again. Open Enrollment will be from Wed., Nov. 1, to Thurs., Nov. 30. You may join or make changes to your health insurance as well as to your Voluntary Accidental Death and Dismemberment Insurance.

This is the only time to sign up for the 2001 Flexible Spending Accounts (FSA). In addition, you may also sign up for the 2001 Transportation Reimbursement Incentive Program (T.R.I.P.). Previous elections will not rollover into 2001. You must re-enroll every year. All enrollments and changes will be effective Jan. 1, 2001.

If you have any questions, please call Human Resources, x8300.

**CFC applications available now**

Applications are now available for the 2001-2002 academic year at the Child and Family Center. The center serves children from infancy to age five. For an application, please contact Marjorie Goldsmith, x8580.

**Papers and talks**

If you are about to publish a paper or give a scientific talk, *News&Notes* would like to know about it. Please send your information by campus mail to Box 68, by E-mail to newsno or by fax to x7876.

## Centennial quiz

President Arnold Levine presented the following "pop quiz" to guests at a recent dinner celebrating infectious disease research at the university. Special mention goes to Professor Emeritus Maclyn McCarty who came up with a surprise fourth answer\* to the bonus question. Match the scientist with the statement:

- 1) Sole founding director of The Rockefeller Institute who wasn't born in New York or Connecticut, also the second-youngest of the original eight.
- 2) Classified streptococci into groups and types.

3) Played cornet so well that he won a scholarship to the National Conservatory of Music; his nickname also turned up in 1995 as the title of a popular children's film.

4) Deputy director of the Office of Science and Technology under JFK.

5) Formed the "Amateur Research Chemists' Club" with high school friends to do experiments in their basement labs.

6) Winner of the Pulitzer Prize for General Non-Fiction in 1969.

7) Unique among the Institute's members in 1925, this scientist also served as a public-health officer in Denver.

8) First director of the Rockefeller Institute Hospital.

9) Identified A B A B O.

10) Died of yellow fever while studying it in West Africa.

Choices are:

Florence Sabin

Rufus Cole

Karl Landsteiner

Hideyo Noguchi

René Dubos

Maclyn McCarty

Simon Flexner

Colin MacLeod

Oswald Avery

Rebecca Lancefield

**Bonus Question**

Three RU faculty started as technicians and worked their way up to full professors. Who were/are they?

For answers, see box at the bottom of the page.

## Promotions continued

Part of the effort in the Simon lab is dedicated to designing new assays for addressing basic problems in cell biology, part is directed to designing new equipment to address these questions, and part is devoted to the clinical implications of their work. Work published from the lab over the past two years has addressed the cellular mechanisms of the anti-tumor drug tamoxifen, the mechanisms of drug-resistance in human cancer cells, and current studies include the cell biology of the malarial parasite and the mechanisms by which retinitis pigmentosa causes progressive blindness.

Simon came to Rockefeller in 1984 after completing his Ph.D.

in physiology and biophysics at New York University Medical Center. He was a postdoctoral fellow in Professor Günter Blobel's laboratory before becoming a head of lab himself.

**Tom Muir**

Muir's laboratory investigates the physicochemical basis of protein function. He and his colleagues believe that by combining the tools of organic chemistry with those of physical biochemistry and cell biology, it will be possible to gain fundamental insights into how proteins work within the context of complex biological systems of biomedical interest.

Over the last few years, his lab has developed a suite of chemistry-

driven technologies that provide unique opportunities for studying biological processes and which, he and his colleagues believe, will have wide-spread application in the postgenomic era. With a technique developed in his lab, researchers can take chunks of proteins and stack them together; these building blocks are interchangeable, so scientists can replace natural molecules with synthetic ones in a variety of combinations.

Muir's lab is using these generic approaches to study molecular recognition processes in several areas ranging from eukaryotic signal transduction to the regulation of virulence in *Staphylococcus aureus*. The techniques, however,

can be used in any biological process involving a protein.

Muir received his undergraduate and Ph.D. degrees from the University of Edinburgh and was a postdoctoral fellow and senior research associate at The Scripps Research Institute before joining Rockefeller in 1996. He has received several awards for his work at Rockefeller and is currently a Pew Scholar in the Biomedical Sciences, a Burroughs-Wellcome Fund New Investigator and Alfred P. Sloan Research Fellow. Muir's research is also supported by the National Institutes of Health.

## Friday lecture continued

analogy with human chaperones: They interact transiently with highly reactive immature proteins to prevent them from making improper associations, rescue them from improper associations if they do occur, and leave mature proteins alone to perform their normal functions.

Lindquist's laboratory is investigating proteins that undergo interesting conformations and the chaperones that assist them.

This pursuit has taken the researchers into many different areas of biology, including the study of stress tolerance, human protein-folding diseases, evolutionary mechanisms and heredity.

One of the chaperones, Hsp90, is specialized to chaperone a distinct class of substrates, proteins that have unstable tertiary and quaternary structures. These include a wide variety of regulatory proteins, known as signal

transducers, that only acquire their final structure and achieve their active states in response to specific signals. Lindquist's lab hypothesizes that Hsp90 is a capacitor for morphogenetic evolution; it allows organisms to acquire many mutations that remain silent under optimal conditions and releases their effects in times of stress, when they might provide a survival advantage.

Lindquist received her Ph.D. in biology from Harvard University in 1976. She is a member of the National Academy of Sciences, the American Academy of Arts and Sciences and the American Academy of Microbiology.

Her talk begins at 3:45 p.m. in Caspary Auditorium and is preceded by a tea in Abby Aldrich Rockefeller lounge at 3:15 p.m. All are welcome.



**News & Notes** is published each Friday throughout the academic year by **The Rockefeller University**, 1230 York Avenue, New York, New York 10021-6399

Phone: 212.327.8967

www.rockefeller.edu/  
pubinfo/news\_notes.html

**Arnold J. Levine**, President

**Mariellen Gallagher**, Vice President of Communications and Public Affairs

**Joseph Bonner**, Director of Communications

**Lisa Stillman**, Assistant Director of Communications

**Jim Stallard**, Science Writer

Ideas and submissions can be sent interoffice (Box 68), by electronic mail (newsno) or by fax (212.327.7876). Copyright, 2000. The Rockefeller University

Answers to Pop Quiz  
 1) Simon Flexner, who was born in Louisville, Kentucky.  
 2) Rebecca Lancefield collected some 7,000 strains of streptococci during her career at Rockefeller. They all still live here.  
 3) Oswald Avery. "Babe" was Avery's nickname at Colgate.  
 4) Colin MacLeod was only 32 when he was named director of the Department of Microbiology at NYU Medical School.  
 5) Maclyn McCarty. You might ask him how many explosions were recorded during club's lifetime.  
 6) René Dubos. The book is *So Human an Animal*.  
 7) Florence Sabin was also the first woman professor at Johns Hopkins and the first woman elected to the National Academy of Sciences. She served as Deputy Director of the National Academy of Sciences.  
 8) Rufus Cole. The Hospital was inaugurated on October 17, 1910.  
 9) Karl Landsteiner. For his research on blood types, Landsteiner won the Nobel Prize in 1930.  
 10) Hideyo Noguchi took the vice Award for her efforts.  
 Answers to Bonus Question  
 1) Rebecca Lancefield  
 2) Vincent Alfrey  
 3) Vincent Fischetti  
 4) Moses Kunitz\*  
 trip in spite of his ill health to get definitive answers after his findings were challenged.

## Core facilities enhance research capabilities

As part of the centennial academic plan, the university is expanding and strengthening its core research facilities. "We're very committed to a high level of support for laboratories," says William Beers, vice president for facilities and research support. "These core facilities, which are available to all researchers, provide high-tech equipment and expertise that don't have to be duplicated in individual labs."

Beers notes that many scientific institutions have found shared core facilities to be beneficial to scientists. "Duplicating the equipment from lab to lab is expensive," he says, "and if the technique isn't something you do often, you can get rusty. Some labs that concentrate on a certain technique will probably still want to do their own work, but we feel that by having these core facilities, we give researchers the flexibility they need."

The following core facilities are available to researchers in all laboratories:

### Laboratory Animal Research Center, x8525

The Laboratory Animal Research Center (LARC) provides a comprehensive program of animal care in support of the university's in vivo research. The goal of the LARC's staff is to provide investigators with the highest level of research support at the lowest cost while ensuring the welfare of the animals used in that research. The center is capable of maintaining a variety of common and unique laboratory animals in addition to providing a wide range of veterinary, diagnostic and research technical services. The center is fully accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC).

**Transgenic Service Laboratory:** This laboratory provides Rockefeller University investigators with a facility to produce genetically altered animals. A trained staff is available to perform pronuclear microinjection of DNA constructs, injection of embryonic stem (ES) cells into recipient blastocysts and cryopreservation of mouse ova.

**Gene Targeting Facility:** This facility provides embryonic stem cell technology for the Rockefeller University community on a fee-for-service basis. The facility performs specific genomic modifications in mouse embryonic stem cells. This expertise is mainly used in creating knockout or knockin mice that will allow research scientists to assess specific gene functions in intact mice. Current service includes

regular gene targeting by homologous recombination and Cre-mediated genomic engineering in ES cells.

### Protein/DNA Technology Center, x8487

The Rockefeller University Protein/DNA Technology Center (PDTC) is a shared core resource laboratory of the Rockefeller University and the Howard Hughes Medical Institute. The center provides protein and DNA related analytical services on a fee-for-service basis to both Rockefeller University and outside investigators.

Amino acid analysis employs pre-column derivatization chemistry

held throughout the year. Computing Services provides on-site support of hardware and software used by researchers in their laboratories. Complete facilities management is available by arrangement. The Computing Services Web site describes in more detail the above-mentioned services (cs.rockefeller.edu).

The application of electronics to research at the university includes the use of amplifiers, transducers, stimulators and analog or digital microprocessor-based instruments. Concerns include extending sensitivity; elimination of artifacts, noise and interference; signal sampling; feature extraction; and mathematical

Facility by designing, constructing and utilizing robotic devices for quantitative parallel assessment of gene expression patterns from thousands of genes in a single experiment. Highly parallel quantitative measurements of gene expression patterns are possible using different methods to produce DNA microarrays. Nucleic acid hybridization to DNA arrays using complex mixtures of probes derived from total cellular RNA represents a simple method to, in theory, measure every different RNA within the mixture. If detection methods are sensitive enough, quantitation of transcript levels for every gene in an organism is possible (if the genome has been sequenced and the identity of the genes are known).

One method that is being developed for high-throughput measurement of expression patterns of thousands of genes is the gridded cDNA microarray technology. This method utilizes a high-speed, high-precision robot to spot thousands of DNA samples onto glass slides. The slides are then simultaneously probed with fluorescent-labeled cDNAs that are generated from RNA isolated from cells or tissues in two different states. A different fluorescent dye is used to make the cDNAs for each physiological state, which allows direct comparisons on a single chip. At Rockefeller, Curtis Altman has built a high speed, ultra-high precision robot to make gridded cDNA microarrays on glass slides. The facility has obtained from Research Genetics 12,000 unique mouse cDNAs and in the future will obtain more libraries from Research Genetics. The facility will produce both human, mouse and other publicly available DNA chips for the quantitative measurement of mRNAs from a variety of model systems. Data from the hybridization reactions are collected using a two-color laser scanning confocal microscope from GSI Lumonics. Finally, informatics for the analysis of databases generated from these experiments will be implemented.

### Other research facilities

In addition, the university also has facilities for spectroscopy, mass spectrometry and flow cytometry, which are directed by Professors Stephen Burley, Brian Chait and Michel Nussenzweig, respectively. Burley and Nussenzweig are HHMI investigators.

The Rockefeller University has started the DNA Gene Array

**"CORE FACILITIES, WHICH ARE AVAILABLE TO ALL RESEARCHERS, PROVIDE HIGH-TECH EQUIPMENT AND EXPERTISE THAT DON'T HAVE TO BE DUPLICATED IN INDIVIDUAL LABORATORIES."**

for the quantitation and identification of amino acids from purified proteins and peptides. This is a quick and inexpensive method to both quantitate and confirm the chemical composition of proteins and peptides. Samples can be submitted in a variety of forms.

### Information and Computing Services, x8925

The goal of Information and Computing Services is to provide the best information resources and services, traditional and electronic, to the Rockefeller University community. The unit comprises Computing Services (including the Electronics Shop), and Telecommunications. Computing Services offers access to electronic mail, research databases, sequencing programs and databases, statistical packages, mathematical analysis, molecular modeling and visualization. In addition to workstations for molecular modeling and graphic visualization, there are Macintoshes and PCs available for general use that have word processing, spreadsheet, statistical and graphics software. All computers are available 24 hours per day, seven days a week. A Call Center attendant is on duty Monday through Friday from 8:30 a.m. to 5:30 p.m. to address users' needs and service requests. The department offers advice about the purchase of computers and software as well. Instructional workshops on particular topics, with hands-on experience, are

processing. A model shop is available to fabricate and maintain electronic and computer equipment. Formal and informal instruction in electronics and the programming of laboratory applications also are available.

### DNA Gene Array Facility, x7064

The human genome project has been the catalyst for the development of several high-throughput technologies that have made it possible to map and sequence complex genomes. At this time, several bacterial genomes as well as the genome of *Saccharomyces cerevisiae* have been sequenced. Within the next several years the entire human genomic sequence will be completed, and this will represent the end of the structural genomics segment of the human genome project. It is clear, however, that the identification of every gene within the genomes of model organisms is only the initial step in the quest to understand what these genes do and how their expression impacts our health. Understanding the functions of the 50,000 to 100,000 genes comprising mammalian genomes, their implication in disease states, variations within the population and roles in normal development will represent a task at least as difficult as the mapping and sequencing efforts currently underway.

### Alison North joins Rockefeller as Director of BioImaging



Alison North will help researchers find the right microscopic tools and techniques for their research needs.

"People don't think of microscopy as being artistic, but it is. I could stare into microscopes all day," says Alison North, who gets to do just that in her new role as director of the university's BioImaging Facility. This core facility was established to provide members of the university with a wide spectrum of state-of-the-art microscopy equipment and high-quality training in its use.

North's role is to help researchers find the right tools and techniques to examine their samples. "If people bring in a specimen, I'll examine it with them and help them find the best microscopy solution," says North, who has a D.Phil. in cell biology from Oxford University. "We show people how to use the equipment if they need help, and then we let them take off on their own."

North is in the process of purchasing new equipment for the facility. Already in place or on the way are two confocal microscopes (one for fixed cells and tissues, one for live cell work); a DeltaVision image restoration microscope, which is optimized for revealing fine, intricate sub-cellular structures; and an upright fluorescence microscope with deconvolution. North is also considering various equipment that would allow researchers to do real-time confocal microscopy and handle particularly thick samples.

The BioImaging Facility also offers electron microscopy as a service; researchers bring in their samples, and technicians process and examine them. North would like to see the two halves of the facility work together. "People tend to separate light microscopy and electron microscopy, but some things being imaged on light microscopy really require the resolution of electron microscopy. I'd like to help people see how they can use both methods as appropriate."



# calendar

N O V E M B E R 1 7 T H R O U G H D E C E M B E R 3

E V E N T S

## Friday Lectures and Thesis Presentations

THESE EVENTS ARE HELD IN CASPARY AUDITORIUM AT 3:45 P.M. AND PRECEDED BY TEA AT 3:15 P.M. IN ABBY ALDRICH ROCKEFELLER LOUNGE. ALL ARE WELCOME.

FRIDAY, NOVEMBER 17

**Molecular Capacitors for Evolutionary Change.** Susan Lindquist, Albert D. Lasker Professor of Medical Sciences, Dept. of Molecular Genetics and Cell Biology, U. of Chicago.

FRIDAY, DECEMBER 1

**Recruitment of End Protection and Replication Complexes to the Telomere.** Victoria Lundblad, Associate Professor, Depts. of Molecular and Human Genetics and Biochemistry, Baylor College of Medicine.

FRIDAY, NOVEMBER 17

9:00 A.M. **Towards an Adjuvant Immunotherapy for HIV-1 Infection.** Andrew Lee, RU. Clinical Scholar's Grand Rounds. 110B NURSES RESIDENCE. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

9:00 A.M. **Qiagen 2000 Seminar.** Vendor Demonstration. 305 WEISS.

12:00 P.M. **T-box Genes: Critical Genes in Mammalian Development.** Virginia Papaioannou, Professor, Dept. of Genetics and Development, Columbia U. Molecular Biology Seminar. 116 ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. REFRESHMENTS AT 11:45 A.M. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

4:30 P.M. **Tri-institution Nutrition.** Meeting. WEISS 17TH FLOOR. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

MONDAY, NOVEMBER 20

1:30 P.M. **Mechanisms of Control of Mucosal Inflammation.** Lloyd Mayer, Professor and Chairman, Immunology Center, Mt. Sinai Medical Center. Immunology Seminar. 2ND FLOOR CONFERENCE ROOM, HSS, 535 E. 70TH ST.

TUESDAY, NOVEMBER 21

12:00 P.M. **Identification of Genes Relevant to the Control of Growth and Differentiation in Myeloid Leukemia Cells.** Yvon Cayre, Professor, Centre INSERM Saint-Antoine. Student-sponsored Seminar. 301 WEISS. PIZZA LUNCHEON AT 1:00 P.M. IN THE WEISS 17TH FLOOR. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

3:00 P.M. **Somatic Cell Genetic Variation in Vivo.** Jay Tischfield, Professor of Pediatrics and Psychiatry; Duncan and Nancy MacMillan Professor of Genetics; Chair, Genetics Dept., Robert Wood Johnson College of Medicine, Rutgers University. Starr Center for Human Genetics Seminar. 301 WEISS. CONTACT EMILY HUFFMAN, 327-7387.

4:00 P.M. **Abnormal Gene Networks behind CNS Disorder Studied in Genetic Mouse Models.** Miklos Toth, Assistant Professor of Pharmacology, WMCCU. Pharmacology Seminar. WEILL AUDITORIUM, WMCCU, 1300 YORK AVE. COFFEE AT 3:45 P.M. CONTACT LISSETT CHECO, 746-6250.

4:00 P.M. **Essential Nonlinearities in Hearing.** Marcelo Magnasco, Associate Professor, RU. Center for Studies in Physics and Biology Seminar. B LEVEL CONFERENCE ROOM, SMITH HALL ANNEX. TEA AT 3:30 P.M. CONTACT ERIK VAN NIMWEGEN, 327-8184.

4:00 P.M. **Novel Mithramycin Analogs by Combinatorial Biosynthesis: Potential Cancer and Bone Resorption Antagonists.** Jurgen Rohr, Associate Professor, Dept. of Pharmaceutical Sciences, Medical U. of South Carolina, Bio-Organic Chemistry Seminar. 116 ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. TEA AT 3:45 P.M.

10:30 A.M. **Biostatistics Course.** Knut Wittkowski, Biometrician, Senior Research Associate, RU Hospital. 128 HOSPITAL. CONTACT KNUT WITTKOWSKI, 327-7175. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

WEDNESDAY, NOVEMBER 22

12:00 P.M. **Microsatellites, Methylation and Mitochondria in Cancer Detection.** David Sidransky, Professor and Director, Head and Neck Cancer Research Division, Johns Hopkins U. School of Medicine. Seminars in Clinical Research. 110B NURSES RESIDENCE. CONTACT DALE MILLER, 327-8411.

12:00 P.M. **Antibodies, Dendritic Cells and HIV Vaccine Development.** John Mascola, Vaccine Research Center, National Institutes of Health. CFAR Seminar. SIXTH FLOOR CONFERENCE ROOM, ADARC, 455 FIRST AVE. CONTACT GARY GAILOR, 448-5163.

MONDAY, NOVEMBER 27

1:30 P.M. **The CD1 System: Presenting Lipid Antigens to T Cells.** Steven Porcelli, Rheumatology and Immunology, Brigham and Women's Hospital. Immunology Seminar. WEILL AUDITORIUM, WMCCU, 1300 YORK AVE.

4:30 P.M. **Molecular Anatomy of Blood Vessels.** Rita Pasqualini, Associate Professor of Medicine and Cancer Biology, Dept. of Medicine and Cancer Biology U. of Texas M.D. Anderson Cancer Center. Cell Biology and Genetics Seminar. PAPANICOLAOU LIBRARY, A-106, WMCCU, 1300 YORK AVE. COFFEE WILL BE SERVED. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

4:30 P.M. **Signaling to Potassium Channels through GTP-Binding Proteins.** Diomedes E. Logothetis, Associate Professor of Physiology, Mount Sinai School of Medicine. PBMM Research Seminar. WEILL AUDITORIUM, WMCCU, 1300 YORK AVE. COFFEE AT 4:15 P.M.

5:30 P.M. **How a Formal Regulatory Environment affects Biomedical Research.** Michael A. Friedman, Senior Vice President, Clinical Affairs, Searle Research and Development. Zanvil A. Cohn Forum on Health Affairs. ABBY DINING ROOM. SHERRY AND WINE AT 5:00 P.M. IN THE ABBY LOUNGE.

TUESDAY, NOVEMBER 28

4:00 P.M. **A Simple Scenario for Ultrafast Photoisomerization.** Daniel Aalberts, Williams College. Center for Studies in Physics and Biology Seminar. B LEVEL CONFERENCE ROOM, SMITH HALL ANNEX. TEA AT 3:30 P.M. CONTACT ERIK VAN NIMWEGEN, 327-8184.

5:30 P.M. **The Role of B-type Cyclin Proteolysis in the Regulation of Exit from Mitosis.** Ralph Wasch, RU. **Rethinking the Death-inducing Signaling Complex in Apoptosis.** Milton H. Werner, Assistant Professor, RU. Pels Family Center for Biochemistry and Structural Biology Seminar. 110B NURSES RESIDENCE. CONTACT ROSER BUSQUETS, 327-7050. PIZZAS AND DRINKS AT 5:00 P.M. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

WEDNESDAY, NOVEMBER 29

10:00 A.M.-12:00 P.M. **Female Songbirds Evaluate the Performance of Males by Eavesdropping on Their Vocal Exchanges.** Laurene Ratcliffe, Queens U. **Induction of Neurogenesis in the Neocortex of Adult Mice.** Jeffrey Macklis, Harvard U. Neural Plasticity and Learning Seminar. 305 WEISS. CONTACT CONSANCE SCHARFE, 327-8381. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

4:30 P.M. **Extrusion and Exclusion: Mechanisms of Multidrug Resistance in Cancer Cells.** Michael M. Gottesman, Chief, Laboratory of Cell Biology, National Cancer Institute, NIH. MSKCC President's Research Seminar. AUDITORIUM, ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. TEA AT 4:00 P.M.

7:30 P.M. **Psoriasis Support Group.** Meeting. 110B NURSES RESIDENCE. CONTACT PATRICIA GILLEAUDEAU, 327-8333.

THURSDAY, NOVEMBER 30

11:00 A.M. **Structural Changes in Cell Signaling Complexes Formed by 14-3-3, Small G Proteins and Calmodulin Transduction.** Guy Dodson, U. of York and MRC, London. Lecture. 302 WEISS. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

12:00 P.M. **Androgen Receptor Coregulators in the Testis.**

Frank French, Professor and Director, Laboratories for Reproductive Biology, U. of North Carolina, Chapel Hill. Endocrinology and Reproductive Biology Seminar. 301 WEISS.

1:00 P.M. **Pain, Standards and Research: Moving into the Future.** Carole Birdsall Associate Professor, and Coordinator, ANP Program, Hunter College, CUNY. Pain Management Seminar. 110B NURSES RESIDENCE. REFRESHMENTS WILL BE SERVED. CONTACT JEAN DOONER, 327-8405. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

3:00 P.M. **Plasticity in Blind and Deaf Persons.** Helen Neville, Professor of Psychology, U. of Oregon. Systems Neuroscience Seminar. 305 WEISS. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

4:00 P.M. **DIAAD, a New Drug Discovery Search-Engine.** Cohava Gelber, Chief Scientific Officer, Vacold L.L.C., Tarrytown, N.Y. LFKRI Research Seminar. LOWER LEVEL CONFERENCE ROOM, NEW YORK BLOOD CENTER, 310 EAST 67TH ST. TEA AT 3:45 P.M. CONTACT ROSANNA MARTINEZ, 570-3357.

## The Arts and Other Events

FRIDAY, NOVEMBER 17

12:00 P.M. **Tri-institutional Noon Recitals.** Andrew Kohji Taylor, violin; Judith Gordon, piano. Performing Faure's *Scherzo WoO2*; Brahms: *Sonata No. 2 in E minor*; Janacek: *Sonata for Violin and Piano*; Robert Russell Bennett: *Hexapoda, Five Studies in Jitteroptera*. CASPARY AUDITORIUM. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

SATURDAY, NOVEMBER 18

2:00 P.M. **Alfred W. Diamond Concert for the Young.** Joyce Yang, piano, 14-year-old winner, 1999 Sony Fellowship Grant; Catherine Manoukian, violin, young protege of world-renowned violinist Dorothy DeLay. Charlotte White's Salon de Virtuosi. CASPARY AUDITORIUM.

MONDAY, NOVEMBER 27

8:00 P.M. **Rockefeller University Film Series.** Independent film by Heidemarie. CASPARY AUDITORIUM. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

FIRST-CLASS  
US POSTAGE  
PAID  
NEW YORK, NY  
PERMIT NO. 7619

newsnotes

The Rockefeller University  
Box 68, 1230 York Avenue, New York, NY 10021  
Address Correction Requested