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News and Notes 1999

The Rockefeller University News and Notes

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## **NEWS AND NOTES 1999, VOL.10, NO.4**

The Rockefeller University

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## Heilbrunns establish fund for cancer research at RU

Professorship created in their honor to be held by President Levine

At last evening's fall meeting of the Rockefeller University Council, council members Robert and Harriet Heilbrunn were recognized for their recent commitment of \$6 million to support cancer research at the university. In announcing the gift, which will endow the Robert and Harriet Heilbrunn Fund for New Initiatives in Cancer Research, David Rockefeller spoke of the couple's "extraordinary friendship to the university and their magnificent contribution to science."

Rockefeller also announced that in grateful recognition of the Heilbrunns' outstanding generosity, the board of trustees has decided to establish, in perpetuity, the Robert and Harriet Heilbrunn Professorship in Cancer Biology, and to appoint President Arnold J. Levine as the first scientist to hold this chair.

"This gift is a linchpin in a major effort to expand and enhance cancer research at The Rockefeller University," Levine says. "The Heilbrunn Fund will help fuel both basic discoveries and their clinical applications. And on a personal level, I am extremely pleased and honored to have my name so closely associated with Robert and Harriet Heilbrunn. They are warm and deeply caring individuals, whose enlightened philanthropy has advanced medical



Robert and Harriet Heilbrunn (far right) with David Rockefeller and Assistant Professor Markus Stoffel, in 1997, at a celebration of the Heilbrunns' gift to endow a professorship for a young investigator working in the field of diabetes research. Stoffel is the university's Robert and Harriet Heilbrunn Professor in Diabetes Research. Photo by Robert Reichert

research and touched the lives of countless New Yorkers."

Scientists in more than a third of the university's 75 laboratories are pursuing studies aimed at gaining insights into cancer and developing new treatments. The Heilbrunn Fund will assist these efforts by providing a source of flexible support that can be directed to promising lines of investigation as they emerge. In addition, a portion of the gift will defray the cost of equipping and establishing the Levine laboratory on campus.

"The exceptional generosity of

Robert and Harriet Heilbrunn will be instrumental in advancing the scientific understanding of cancer," says Richard M. Furlaud, chairman of The Rockefeller University Council. "The entire university community is deeply grateful for their wonderful support."

The Heilbrunns have been members of the Council since 1997. They previously endowed a professorship for a junior faculty head of laboratory in the field of diabetes research. Assistant Professor Markus Stoffel currently holds that chair.

## Friday lecture: Konarska discusses pre-mRNA splicing

Associate Professor M. Magda Konarska will present the Friday lecture today (Oct. 8). Her topic will be "Mechanisms of pre-mRNA Splicing."

As head of the Laboratory of Molecular Biology and Biochemistry, Konarska studies catalytic reactions in spliceosomes, cellular complexes composed of RNA and proteins. Since these dynamic structures are too large to study in detail, Konarska's lab focuses on its selected components – molecules called small nuclear RNAs (snRNAs) and their associated proteins that are close to the catalytic center of the spliceosome.

Konarska zeroed in on a small portion of the substrate pre-mRNA called the 5' splice site (5'SS), a highly conserved sequence at the 5' end of the intron, which represents one of the substrates for splicing. The researchers employed a simple in vitro system using standard human HeLa cells to study this piece, allowing them to uncouple the individual steps of the spliceosome assembly. This simplified system bypasses early phases of the reaction that are only important for regulation of splicing and allows for a detailed analysis of spliceosomal components that are involved in formation of the catalytic center.

Konarska came to Rockefeller as a university fellow in 1990. She received a M.Sc. in genetics from the University of Warsaw in 1979, and a Ph.D. in biochemistry from the Polish Academy of Sciences, Institute of Biochemistry and Biophysics in 1983. From 1984 until 1990 she was affiliated with the Center for Cancer Research at the Massachusetts Institute of Technology, first as a post-doctoral fellow and then as a research associate. She received the Lucille P. Markey Scholar Award in 1987 and the Monique Weill-Caulier Career Scientist Award in 1992.

Konarska's talk begins at 3:45 p.m. in Caspary Auditorium and is preceded by tea at 3:15 p.m. in Abby Aldrich Rockefeller Lounge. All are welcome.



Associate Professor M. Magda Konarska will present the Friday lecture today (Oct. 8). Photo by Robert Reichert

## Early morning effort raises pedestrian bridge

In a pre-dawn maneuver illuminated by high intensity lights, a team of 24 iron workers raised the main section of the university's pedestrian bridge last Sunday morning (Oct. 3).

The work began just after 3 a.m., as a flatbed trailer brought the 118-foot-long main span of the bridge onto 63rd Street from a parking space beneath the Queensboro Bridge on York Avenue. Fabricated in Montreal, Canada, the main span was shipped via truck to South Plainsfield, N.J., where utilities, handrails and decking were added. On the morning of Fri., Oct. 1, the bridge section left New Jersey and headed for the toll plaza of the George Washington Bridge. Shortly after midnight, the oversized load crossed the GWB and was accompanied by a New York City police escort as it made its way down



RU's new pedestrian bridge was put into place last Sun., Oct. 3. Photo by Joseph Bonner

Broadway, across 57th Street and up York Avenue, arriving around 3 a.m. Sunday morning.

"This is the culmination of a three-year planning effort. It was exciting to see the bridge span move effortlessly through the air and fit neatly into place," says George Candler, director of Planning and Construction.

A 500-ton truck-mounted hydraulic crane was used to lift and hold the 40-ton bridge in place while the workers

attached the ends of the bridge to the structure of the Scholars Residence and the V-shaped tower support structure on campus.

Two 35-ton truck-mounted hydraulic cranes were used to sling the cables from the support to the mooring points on the bridge deck. In all, 10 galvanized steel stay cables support the main span, where they are attached to the deck at 23-foot intervals, passing upward through the main tower and down again to a pair of smaller tieback towers. The tieback towers are anchored into concrete footings that hold down the cantilever portion of the bridge. The crane released the bridge around 9 a.m. Sunday morning.

The construction drew a small crowd of spectators, including a few residents from Scholars, a reporter from *New York Magazine* and a *New York Times* photographer, and the occasional late-night dog walker. Also on-hand to witness the work were bridge designers Tian-Fang Jing and Gheng Gu of Weidlinger Associates and architect Wendy Evans Joseph, Planning and Construction's Candler and Project Manager Majid Jelveh, and Turner Construction, the construction manager for the university.

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## Another cast change for the Peggy Rockefeller Concerts

For the third time in the first two concerts this season, a cancellation has forced a change in the performers to be heard at the Peggy Rockefeller Concerts. The National Chamber Orchestra of Toulouse, France, scheduled to appear at the Wed., Oct. 20 concert in Caspary Auditorium, cancelled their American tour this fall. In their place, the Audubon String Quartet will appear with guest violist Marcus Thompson and guest cellist Jan Vogler. This combination of instruments will permit performances of the two seldom-heard string sextets of Johannes Brahms, along with a quartet to be announced later.

The Audubon Quartet was founded in 1974 and quickly achieved international recognition, winning three major competitions in its first four years. They perform regularly in major concert halls around the world and were the first American quartet to visit the Peoples'



The Audubon String Quartet will perform at the Wed., Oct. 20 concert. Photo courtesy of the artists.

Republic of China, in 1981. They have also performed at the White House for President Carter, and at major summer festivals. They regularly perform works by contemporary composers as well as the standard quartet classics. Guest violist Marcus Thompson, a native of the South Bronx, studied at Juilliard School and is currently on the faculties of the New England Conservatory of Music and MIT. Jan Vogler, born in Berlin, became principal cellist of the Dresden Staatskapelle Orchestra at the age of 20, but left that position in 1997 to devote full time to his solo career. He plays on a 1712 Guarneri cello.

## Potpourri

### Child and Family Center applications

The RU Child and Family Center is now accepting applications for the 2000-2001 school year. The center serves children from 3 months to 4 and a half years. Please call the educational director, Marjorie Goldsmith, x8580, for more information.

### Visa Lottery

Fifty thousand immigrant visas will be offered to the winners of a visa lottery run by the U.S. Department of State. The filing period is from noon Mon., Oct. 4, 1999 until noon Wed., Nov. 3, 1999 and is open to natives of most countries around the world. (Only 14 countries are excluded from the lottery.) For detailed instructions about the lottery, visit the Office of Human Resources, 103 Founder's Hall.

### Petty cash

Effective immediately, the reimbursement limit for petty cash has been increased from \$75 to \$100. As a reminder, the policy for petty cash reimbursement is that all vouchers must be signed by an authorized party and a receipt or other documentation is required for individual amounts exceeding \$25.

### Telecommunications

The latest edition of the Manhattan white pages is available at the Telecommunications office in B-1 Smith Hall between 9 a.m. and 5 p.m.

### Influenza vaccine

The Employee Health Office is offering influenza vaccination, free of charge, to any Rockefeller University employee or student who wishes to receive it. Influenza is a contagious viral respiratory illness that usually strikes during the winter months. It is usually a moderately severe disease for healthy adults and children, but it can be very serious for people over 65 years of age and for those with underlying illnesses. The disease can be prevented or reduced in severity by a vaccine designed to combat prevalent influenza virus strains. Annual vaccination using the current vaccine is necessary because immunity declines in the year following vaccination and because prevalent strains of influenza virus vary from year to year. It is strongly recommended that you be vaccinated if age or underlying illness puts you at risk or if you are in a position to spread the illness to someone who is at risk. Anyone who wishes to reduce the chance of becoming infected with influenza can be vaccinated, however, whether or not he or she is at risk for developing complications from the disease. The vaccine is made from inactivated, egg-grown viruses and cannot cause influenza. It contains no blood products. Flu vaccination is offered Monday through Friday from 10 a.m. to 4 p.m. in the Employee Health Office, Hospital 118. No appointment is necessary. If you have any questions, please call the Employee Health Office, x8414.

## The Molecular Flying Circus

And now for something completely different:

"Molecular Flying Circus" celebrates 25 years of mass spectrometry at RU

A day-long symposium entitled "The Molecular Flying Circus: Innovations in Biological Mass Spectrometry" will bring together some of the world's leading mass spectrometrists to Caspary Auditorium on Mon., Oct. 18, to celebrate the 25th anniversary of the National Institutes of Health's funding of RU's National Resource for the Mass Spectrometric Analysis of Biological Macromolecules. Originally directed by Professor Emeritus Frank Field and now headed by Professor Brian Chait, the mass spectrometry laboratory is a resource for scientists at the university who need

accurate weighings of molecules for their experiments.

The symposium begins at 9 a.m. with registration and coffee. From 9:30 to 10:30 a.m., introductory remarks will be made by RU President Arnold J. Levine, Chait, Professor and HHMI Investigator Stephen K. Burley, Field, Professor Emeritus and Past President Joshua Lederberg, and Marvin Cassman, director of the National Institute of General Medical Sciences at NIH. For a complete schedule of speakers and times, go to <http://www.rockefeller.edu/lectures/circus99.sym.html>.

## Friday lecture:

Richard A. Young will discuss "The New Genetics of Gene Expression" on Oct. 15

Professor Richard A. Young of the Whitehead Institute for Biomedical Research at MIT will present the Friday lecture next week (Oct. 15). His topic will be "The New Genetics of Gene Expression."

Young uses genetic and biochemical tools to study how gene expression is regulated in yeast and mammalian cells. These studies are revealing the nature of the complex apparatus that transcribes genes and the mechanisms involved in regulating expression of the genome. His lab is also investigating human pathogens that infect macrophages, including *Mycobacterium tuberculosis* and HIV, and their influence on host cell gene expression.

Much has been learned about the transcription apparatus and its regulation, but little is known about genome-wide expression circuitry. The regulatory circuitry of yeast and human cells is being deduced through the use of high density oligonucleotide arrays. Young's strategy is to identify genes whose expression is altered during the response to changes in the environment of cells and then to determine which genes are coregulated by specific signal transduction pathways and transcription factors. The study also involves deducing the role of individual components of the transcription apparatus in the response, and understanding the role of chromatin in regulation of genome expression.

Another long-term goal of Young's laboratory is to improve the understanding of host-pathogen interactions, the mechanisms involved in immunity to infection, and the tools available to fight infectious diseases. Macrophages are frequently the first line of immune defense against infection. They also become host cells for the etiologic agents of tuberculosis, leprosy, and AIDS (*Mycobacterium tuberculosis*, *Mycobacterium leprae*, and HIV). Young is investigating the changes in gene expression exhibited by the host

and the pathogen after infection to obtain clues to the nature of the interactions between mycobacterial and HIV pathogens and their host cells.

Young received his Ph.D. in biochemistry from Yale and his B.S. in biology from Indiana University. He was chair of the graduate program in biology at MIT from 1996 to 1997, and is on the editorial board of *Molecular and Cellular Biology*. He has received a National Institutes of Health MERIT Award and the Chiron Corporation Biotechnology Award. He is a fellow of the American Academy of Microbiology and is on a Blue Ribbon Panel on Microbial Genome Sequencing for the National Institute of Allergy and Infectious Diseases.

Young's talk begins at 3:45 p.m. in Caspary Auditorium and is preceded by tea in Abby Aldrich Rockefeller Lounge at 3:15 p.m. All are welcome.

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## Lasker Award celebrations



Professor Roderick MacKinnon, second from left, celebrates winning the 1999 Albert Lasker Award for Basic Medical Research with his two co-awardees and RU President Arnold Levine at a reception held at the President's house on Thurs., Sept. 30. Pictured from left are Levine, MacKinnon, head of Rockefeller's Laboratory of Molecular Neurobiology and Biophysics and investigator for the Howard Hughes Medical Institute, Clay Armstrong, a professor in the Department of Physiology at the University of Pennsylvania School of Medicine, and Bertil Hille, a professor of physiology and biophysics at the University of Washington and a Rockefeller alumnus. *Photo by Paul Schneck*



Rockefeller Professor Roderick MacKinnon, left, at the Lasker Awards luncheon on Fri., Oct. 1 with his mentor Christopher Miller, a professor of biochemistry at Brandeis University and an investigator with the Howard Hughes Medical Institute. MacKinnon worked in Miller's Brandeis laboratory as an undergraduate and later as a postdoctoral candidate and credits Miller with inspiring his interest in science. *Photo by Paul Schneck*

## Koshland addresses Cohn Forum

*Professor of Biochemistry and Molecular Biology at the University of California, Berkeley, and former editor of Science, Daniel E. Koshland, Jr., gave the first of the 1999 Academic year's Zanvil A. Cohn Forum lecture on Health Affairs on Wed., Sept. 29th. Dr. Koshland spoke about The Future in Biomedical Science – What We Will be Able to Do and What We Will be Allowed to Do. The following are excerpts from his talk.*

**S**cience policy has never been more important. Not only for the health of the scientific enterprise, which a lot of you young students are entering and even some of us older people still want to hold together, but also because the world depends on it. The problem of waste disposal, of taking care of billions of new people and feeding them is going to be increasingly worse in the next few years. And I think science is going to play the major role. Some of the politicians don't always realize this but the solution to the problem probably lies in science's hands.

The conclusion I've come to is that

we're going to be able to do everything.

Let's start with cloning. Cloning, as you know, is in the public domain now. Cloning is being allowed in private laboratories but it is not being subsidized by the NIH. As a scientist who's been involved a little bit in policy I thought, this time we scientists have gone too far. This will probably create a lot of bad feeling in the public and maybe we shouldn't do it. But it struck me that it's a little crazy to have a law against cloning. It's like a law against ballooning around the world. How much of a threat is that? As a threat against mankind, it seems to me it's not one of those things that's going to happen very much; and you can always pass a law if it happens.



Daniel E. Koshland addresses a capacity crowd at last Wednesday's Cohn Forum.

On the other hand, genetic engineering strikes me as something that really is going to take off. And it's going to be in great demand and there's going to be a lot of it.

As far as gene therapy, I think there's very little doubt. There's not going to be any kind of statement that you can't tamper with the human genome to restore a defective gene. But there's a sec-

ond field called gene enhancement and this is a little more complicated. Some of you read *The New York Times* front page story on the NMDA receptor. They've cloned it and put it in mice and run the mice through mazes and the mice did better than the mice that hadn't been genetically engineered. It was quite clear it made the mice smarter.

Newspapers get very nervous when you mention intelligence and any kind of heredity so they wrote that it's unlikely to be true in humans and so forth, but I think all of us know it is very likely to be true in humans. Therefore, what are the implications for society? Can you possibly say somebody shouldn't have more NMDA receptors which would make them much smarter? That's the kind of problem that's going to come up. But it seems to me, when you come down to it, it's going to happen. We're having an enormous impact on people. The net result is the public is concerned about us but they're really very happy that we're producing so many benefits.

The idea that we have hostility to science nowadays, that we're a group of people who are not understood and the Congress doesn't really cave in and do everything we ask them to do, is really ridiculous. If you ask people who they admire the most, scientists come out on top, in one poll after another. It's not surprising that we beat lawyers, but it is surprising that we beat M.D.s. Scientists are highly regarded but people really are afraid of change. They see the things we're doing but they're very concerned about the impact on society. But people are adjusting.

How are we going to avoid legislation that really causes big problems? In my opinion, scientists of the future, including people in this room, are going to have to spend some of their time explaining to the public what we're doing and how we're doing it. You can't do anything like that by depending on spontaneous volunteers. You have to have some structure. Scientific societies and others are going to have to hire people to be on the circuit, to be on television shows, to explain things.

Basically scientists like us are really doing very good things for humanity.

## At the next Cohn Forum: Stopping Science?

**H**arold T. Shapiro, president of Princeton University and chair of the National Bioethics Advisory Commission, will be the featured speaker at the next Zanvil A. Cohn Forum on Health Affairs, Mon., Oct. 25. His talk is entitled "Stopping Science?"

Shapiro argues that science and its stunning progress are at the core of a level of apprehension about the future that is unprecedented by any previous century. He discusses the roots of the sometimes popular argument for stopping the advance of science. "Scientific theories say nothing about what is right in a moral sense, but only speak of what is possible," he says. "The source of our values, therefore, must come from outside science."

In July 1996 Shapiro was appointed by President Clinton to chair the National Bioethics Advisory



Harold T. Shapiro will speak at the next Cohn Forum on Mon., Oct. 25

Commission, which issued the report "Cloning Human Beings" in June 1997. From 1990 to 1992, Shapiro served as a member of President Bush's Council of Advisors on Science and Technology.

Shapiro has been president of Princeton since 1988 and came to

Princeton from the University of Michigan, where he served on the faculty for 24 years as professor of economics and public policy and as president from 1980 to 1988.

Shapiro is a native of Montreal with dual American and Canadian citizenship. He is a trustee of the Alfred P. Sloan Foundation (where he serves as chairman of the board), the University of Pennsylvania Medical Center and the Educational Testing Service, and he serves as a director of the Dow Chemical Company. He received his Ph.D. in economics from Princeton in 1964.

The Cohn Forum is a series of colloquia on issues in health and biomedicine. The Cohn Forum's website is at: [www.rockefeller.edu/pubinfo/cohn.html](http://www.rockefeller.edu/pubinfo/cohn.html).

Admission is free. All are welcome. For additional information, please call Gloria Phipps, x8967.

<http://www.rockefeller.edu/rucal>

THE ROCKEFELLER UNIVERSITY—Please post

**FRIDAY, OCTOBER 8**

12 p.m. **CD 40 Signaling through TRAF Proteins: Biochemical Mechanisms & the Maintenance of Receptor Signaling Specificity.** Marilyn R. Kehry, Distinguished Scientist, Dept. of Biology, Boehringer Ingelheim Pharmaceuticals. Immunology Seminar. **117 Whitney, WMCCU, 1300 York Ave.** Contact Michele Lavarde, 746-6452.

12 p.m. **Recursive Splicing and Developmental Regulation of Splice Site Choice in *Drosophila*.** Antonio-Javier Lopez, Associate Professor, Dept. of Biological Sciences, Carnegie Mellon U. Molecular Biology Seminar. **116 Rockefeller Research Laboratories, MSKCC, 430 East 67th St.** Contact Linda Z. Smith, 639-7655.

7 p.m. **Psoriasis Support Group.** Patricia Gilleaudeau, Research Nurse, RU. Psoriasis Support Group Meeting. **110B Nurses Residence.** Contact Patricia Gilleaudeau, 327-8333.

**TUESDAY, OCTOBER 12**

8 a.m.–5 p.m. **Qiagen 1999 Seminar Series.** Seminar. **17th Floor Weiss.** Contact Alexander Zrolka, 661-295-7444. Open to RU/WMCCU/NYPH/MSKCC community and guests.

2 p.m. **Macrophages and Atherosclerosis.** Sandra Gianturco, Chief, Lipoprotein Metabolism, U. of Alabama at Birmingham; Ira Tabas, Professor of Medicine and Anatomy and Cell Biology, Columbia U. College of Physicians and Surgeons; and Barrett J. Rollins, Associate Professor of Medicine, Dana-Faber Cancer Institute, Harvard Medical School. New York Lipid and Vascular Biology Research Club Seminar. **301 Weiss.** Reception at 5:30 p.m., 17th Floor Weiss. Contact Hayes Dansky, 327-7733.

3 p.m. **Human Gene Mapping for Complex Traits: The Problem Is Not the Statistics, It's the Study Design.** Joseph Terwilliger, Assistant Professor of Neuroscience, Columbia U. Starr Center for Human Genetics Seminar. **305 Weiss.** Contact Emily Gegeliya, 327-7387.

4 p.m. **Cytoskeletal Filaments: Formation of Networks, Bundles, and Rings.** Paul A. Janmey, Professor, University of Pennsylvania. Center for Studies in Physics and Biology Seminar. **B Level Conference Room, Smith Hall Annex.** Tea at 3:30 p.m. Contact Martin Zapotocky, 327-8183.

4 p.m. **Elastases in Health and Disease: The Good, the Bad and the Ugly.** Steven Shapiro, Associate Professor of Pediatrics, Medicine and Cell Biology and Physiology, Department of Pediatrics at Barnes-Jewish Hospital, Washington U. School of Medicine. Pharmacology Research Seminar. **Weill Auditorium, WMCCU, 1300 York Ave.** Tea at 3:45 p.m.

**WEDNESDAY, OCTOBER 13**

12 p.m. **APP, Presenilins and the Generation of Amyloid  $\beta$ -Protein in Alzheimer's Disease.** Dennis Selkoe, Professor of Neurology, Harvard University. Seminars in Clinical Research. **110B Nurses Residence.**

2 p.m. **Novel Tools for Creating and Reading DNA Micro Array.** Stan Rose, COO, Genetic Microsystems. DNA Micro Array Seminar. **305 Weiss.** Contact Beth Concaugh, 800-834-5244x402. Open to RU/WMCCU/NYPH/MSKCC community and guests.

4 p.m. **Decoding the Genome.** J. Craig Venter, President and Chief Scientific Officer, Celera Genomics. Dibner Lecture. **Dibner Auditorium, Polytechnic U., Metrotech Center, Brooklyn.** Contact Mary Ann Scalia, 718-260-3892.

4 p.m. **The p53-MDM-2 Pathway.** Arnold J. Levine, President, RU. Graduate Student Seminar. **301 Weiss.** Pizza and refreshments at 5 p.m., Weiss 17th Floor. Contact Jill Benz, 327-8092. All are welcome.

**THURSDAY, OCTOBER 14**

12 p.m. **Expression of Connexins in the Testis.** Michael Riskey, Associate Professor, Department of Biological Sciences, Fordham U. Endocrinology and Reproductive Biology Seminar. **301 Weiss.**

3:45 p.m. **The ARF-Mdm2-p53 Pathway.** Charles J. Sherr, Investigator, HHMI; Herrick Foundation Chairman, Dept. of Tumor Cell Biology, St. Jude's Children's Research Hospital. Seminar. **101 Rockefeller Research Laboratories, MSKCC, 430 E. 67th St.** Tea at 3:15 p.m.

4 p.m. **Application of Bone Microstructural Analysis to the Comparative Study of Mammalian Functional Adaptation and Life History.** Tim Bromage, Anthropology Dept, Hunter College, CUNY. Haviva Goldman, Hunter College, CUNY. From Molecules to Mobility Seminar. **Second Floor Conference Room, HSS, 535 East 70th St.** Tea at 5 p.m.

4 p.m. **Challenges to Health and Nutrition in Bangladesh: The BRAC Program.** Purabi Dutta, Director, Health (Nutrition) and Population Division, Bangladesh Rural Advancement Committee (BRAC), Dhaka, Bangladesh. CNRU Special Nutrition Lecture. **116 Rockefeller Research Laboratories, MSKCC, 430 East 67th St.**

4 p.m. **Cytoadherence of *P. falciparum*-infected Cells in the Pathogenesis of Severe Malaria.** Graham Brown, Professor of Medicine, U. of Melbourne. 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.

**FRIDAY, OCTOBER 15**

8:30 a.m. **Virtual Higher Education? Critical Perspectives.** Neil Postman, Dept. of Communication and Culture, NYU; David Noble, York U., Toronto; Starr Roxanne Hiltz, NJIT; Robbie McClintock, Teachers College, Columbia U., and others. Symposium. **714 Hunter West Building, Hunter College, 68th St. at Lexington Ave.** Admission is free. Walk-in registration will be available, space permitting. For on-line registration or more information visit <http://sonhouse.hunter.cuny.edu/virtual/> or contact Henry Moss, [hmos@nyas.org](mailto:hmos@nyas.org) or 838-0230x410.

12 p.m. **Building a Cellular Switch: New Lessons from the MAP Kinase Cascade.** James E. Ferrell, Associate Professor, Dept. of Molecular Pharmacology, Stanford U. School of Medicine. Cell Biology Seminar. **116 Rockefeller Research Laboratories, MSKCC, 430 East 67th St.**

12 p.m. **Genes for Estrogen Receptors and Their Physiological Consequences in Mice.** Kenneth S. Korach, Director, Environmental Disease and Medicine Program, and Chief, Laboratory of Reproductive and Developmental Toxicology, NIEHS, NIH. Lecture. **301 Weiss.**

12 p.m. **Processing of Apoptotic Cells in Relation to Autoimmunity.** Keith Elkon, Professor of Medicine, HSS, WMCCU, Immunology Seminar. **117 Whitney, WMCCU, 1300 York Ave.** Contact Michele Lavarde, 746-6452.

**MONDAY, OCTOBER 18**

9 a.m.–5 p.m. **The Molecular Flying Circus: Innovations in Biological Mass Spectrometry.** A Symposium Celebrating the 25th Anniversary of the NIH-funded National Resource for the Mass Spectrometric Analysis of Biological Macromolecules at The Rockefeller University. Co-Sponsored by the Pels Family Center for Biochemistry and Structural Biology. **Caspary Auditorium.** Contact Gladys McMilleon, 327-8847, or e-mail [mcmillg@mail.rockefeller.edu](mailto:mcmillg@mail.rockefeller.edu).

12 p.m. **Fusion-competent HIV Immunogens Targeting the Functioning Envelope Protein.** Jack Nunberg, Director, Montana Biotechnology Center. CFAR Seminar. **6th Floor Conference Room, ADARC, 455 First Avenue.**

4 p.m. **Function of Lutheran and LW Glycoprotein in Health and Disease.** Frances A. Spring, Senior Research Scientist, Bristol Institute for Transfusion Sciences, U.K. 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.

4:30 p.m. **Genetic Aspects of Atherosclerosis.** Jan L. Breslow, Professor, RU. PBMM Research Seminar. **Weill Auditorium, WMCCU, 1300 York Ave.**

**TUESDAY, OCTOBER 19**

2 p.m. **Nucleoside Diphosphate Kinase: A Protein That Phosphorylates Anti-HIV Drugs and Also Displays DNA Binding Activity.** Michel Vernon, Dept. of Molecular Biology, Pasteur Institute. Seminar. **305 Weiss.**

4 p.m. **Cellular Signaling by Tyrosine Phosphorylation.** Joseph Schlessinger, Professor, NYU. Seminar in Cancer Biology. **Caspary Auditorium.** Contact Jill Benz, 327-8092. All are welcome.

**WEDNESDAY, OCTOBER 20**

10 a.m. **Structure, Electronics, and Reactivity in Metalloenzyme Catalysis: From Cupredoxins to Nitric Oxide Synthase.** Brian R. Crane, Beckman Institute, California Institute of Technology. Pels Family Center for Biochemistry and Structural Biology Seminar. **301 Weiss.**

12 p.m. **Delineating Genetic Pathways Mediating Susceptibility to Lupus Nephritis.** Edward K. Wakeland, Director, Center for Immunology; Professor and Chair, U. of Texas SW Medical Center. Seminars in Clinical Research. **110B Nurses Residence.**

1 p.m. **The Ergonomics of Pipetting.** Judy Giberson-Smith, Sales Representative, Rainin Instrument Company. Seminar. **301 Weiss.** Please RSVP to Stephen Tennbaum, 800-828-2788x386.

**FRIDAY, OCTOBER 22**

11 a.m. **Biophysical Applications of Modern Electron Spin Resonance: Structure and Dynamics of Proteins, Lipid-Protein Interactions.** Jack H. Freed, Professor, Dept. of Chemistry and Chemical Biology, Cornell U. Seminar. **B Level Conference Room, Smith Hall Annex.**

THE ROCKEFELLER UNIVERSITY  
**Friday Lectures**

These events are held in Caspary Auditorium at 3:45 p.m. Tea is served in Abby Aldrich Rockefeller Lounge at 3:15 p.m. All are welcome.

**FRIDAY, OCTOBER 8**

**Mechanisms of pre-mRNA Splicing.** Magda Konarska, Associate Professor, RU.

**FRIDAY, OCTOBER 15**

**The New Genetics of Gene Expression.** Richard A. Young, Member, Whitehead Institute for Biomedical Research, and Professor of Biology, MIT.

**FRIDAY, OCTOBER 22**

**NMR as a Tool in Drug Research: Structures of Proteins Involved in Apoptosis and NMR-based Screening.** Stephen Fesik, Senior Project Leader, Abbott Laboratories.

The Arts and  
Other Events**FRIDAY, OCTOBER 8**

12 p.m. **Tri-Institutional Noon Recitals.** Moscow Chamber Orchestra (Constantine Orbelian, conductor and piano soloist, and Nina Kotova, cello soloist), performing works by Tchaikovsky, Schnittke and Shostakovich. **Caspary Auditorium.** Open to RU/WMCCU/NYPH/MSKCC community and guests.

**THURSDAY, OCTOBER 14**

8 p.m. **Rockefeller University Film Series.** *Crumb* (1994). Directed by Terry Zwigoff. **Caspary Auditorium.** Open to RU/WMCCU/NYPH/MSKCC community and guests.

**WEDNESDAY, OCTOBER 20**

8 p.m. **Peggy Rockefeller Concerts.** Audubon Quartet, Performing Brahms' String Sextets. **Caspary Auditorium.** Contact Cathy Rogers, 327-8437.

**FRIDAY, OCTOBER 15**

12 p.m. **Tri-Institutional Noon Recitals.** Tapestry, female vocal quintet with vielle, harp and percussion, performing Song of Songs, a portrait of sensual and spiritual settings of the Biblical text in traditional Hebrew cantillations and medieval Latin chants. **Caspary Auditorium.** Open to RU/WMCCU/NYPH/MSKCC community and guests.

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