



news & notes

SEPTEMBER 10, 1999

VOLUME 10, NUMBER 1

THE ROCKEFELLER UNIVERSITY

Strang gift endows professorship, establishes new lab

The Rockefeller University has received a major grant to establish a new laboratory and an endowed professorship, both dedicated to cancer research. The \$12.5 million gift by the Strang Cancer Prevention Center was announced jointly by Michael P. Osborne, president of the Strang Cancer Prevention Center, and RU President Arnold J. Levine last week.

The new Rockefeller laboratory, to be named the Strang Cancer Biology Laboratory, will conduct basic research with the ultimate goal of developing more effective strategies for cancer prevention and treatment. The university is beginning an international search for a senior investigator, to be known as the Strang Professor, who will head the new laboratory. The Strang funds, which will be supplemented by additional private grants, include start-up funds and an endowment to provide for the continuing expenses of the laboratory, including support for the Strang Professor.

Commenting on this initiative, Osborne said, "We are now at the threshold of new findings that will transform cancer prevention, detection and treatment. This is the time to make a major investment in basic research, and I am very pleased that we can fulfill this imperative while strengthening the relationship between two institutions that have an outstanding history in cancer studies at the laboratory bench and in the clinic."

"This is truly an extraordinary effort, and the university could not be more grateful," said Levine. "The support of the Strang trustees will enable us to

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NEXT WEEK:

Roundup of RU summer scientific papers

Administration toasts Bohen's service to university



President Arnold J. Levine (right) toasted Fred Bohen's outstanding service to RU in his 9-year role as executive vice president and chief operating officer at a celebration at the President's house last Wed., Sept. 1. Photo by Paul Schneck

Frederick M. Bohen, executive vice president and chief operating officer at The Rockefeller University since September 1990 stepped down Tues., Aug. 31, after nine years of distinguished service to Rockefeller and nearly a quarter century in university and Federal leadership.

During his RU tenure, the university's endowment almost doubled to nearly \$1 billion, fund-raising reached unprecedented records attracting more than \$200 million in gifts and grants and a \$13 million budget deficit was eliminated early in his administration.

"In serving three presidents, David Baltimore, Torsten Weisel and myself, Fred gave us the opportunity to focus upon science, confident that the rest of the institution was running smoothly," says Arnold J. Levine, president. "Fred played a critical role in the revitalization

of the university that occurred during Torsten Wiesel's presidency. He and Torsten successfully faced the enormous challenge of growing the university scientifically, while at the same time eliminating the deficit. Thanks to Fred's astute financial management, I was fortunate to inherit an institution with 75 thriving laboratories, a modernized physical plant and an operating surplus."

Levine hosted a dinner for the outgoing executive vice president at the President's House, Wed., Sept. 1, attended by many of the university's senior administrative staff. Faculty and trustees will honor Bohen at the President's House later this fall.

The evening was punctuated with laughter, spontaneous toasts, applause and memories of roads traveled together, both rocky and smooth. Many recalled the first year of Bohen's tenure when he

see **Bohen**, page 3

RU luncheon honors Science Outreach Program, promotes Siemens Westinghouse competition

The Rockefeller University and the Siemens Foundation sponsored a luncheon on Wed., Aug. 18, to honor Rockefeller's Science Outreach Program for high school students and teachers and to promote the Siemens Westinghouse Science and Technology Competition. Sponsored by the Siemens Foundation, this newly founded national science competition aims to "recognize talent early on, fostering individual growth for those students willing to challenge themselves through the development of independent research projects."

Each summer, about 60 high school juniors and seniors and 12 New York City schoolteachers gain laboratory experience and expand their scientific understanding. The teachers are encouraged to take their experiences back into their classrooms by writing an action

proposal and by conducting workshops for their peers. It is estimated that 6,000 students are taught each year by present and former Outreach teachers.

"The laboratory experiments allow the students to pursue intense and potentially groundbreaking research in an area of their choice and to experience the nature of scientific endeavors," says program Director Bonnie Kaiser. "This exposure leaves a lasting impression on the participants and influences their future coursework."

Rockefeller's Science Outreach Program formally began in 1992 when Kaiser became its director, and it has since become widely recognized for its excellence and unbroken record of funding from the NIH. Over half of the

see **Science outreach**, page 2

Alice Lustig succeeds Bohen as VP and COO

Alice Lustig succeeded Fred Bohen as executive vice president and chief operating officer of The Rockefeller University on Wed., Sept. 1. Lustig joined the university last fall as special assistant to the President and she worked closely with the faculty and President Levine in developing the new Academic Plan and charting the university's future direction.

Before coming to Rockefeller, Lustig served as business manager of the molecular biology department at Princeton University from 1988 to 1999, a period when the department underwent remarkable growth. She was responsible for the financial, administrative and facilities management of the 550-person department, which has an annual operating budget of \$40 million.

While at Princeton, Lustig acquired enormous expertise in overseeing the operations of a state-of-the-art biomedical research enterprise. When she moved to Rockefeller, she brought with her a wealth of experience solving problems in a productive and cost-efficient manner. She has already come to play a major role in addressing faculty concerns, coordinating capital projects and facilities development and planning the university's upcoming Centennial celebration. Look for an interview with Lustig in next week's issue of News & Notes.



Alice Lustig succeeded Fred Bohen as executive vice president and chief operating officer of RU on Wed., Sept. 1. Photo by Elena Olivo

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Arts on campus: Employee autumn art show seeks submissions

Are you artistic? The Human Resources Office is calling for submissions of painting, sculpture and photography for a special exhibit of employee artists. The works selected will be hung in the RU library this autumn and will be a featured part of the university's annual Employee Recognition events.

Campus artists should submit up to three slides or photographs of their works to Kate Drake or Ron Kurtz in

Human Resources by Mon., Oct. 4. Please do not send your original artworks; artists selected for the show will be contacted in October and will be consulted about how best to display their works.

This exhibition is the first of a series of programs Human Resources is creating to recognize the talents of the workers on the RU campus.

For additional information, please contact Drake, x8300 or Kurtz, x8303.



RU's Science Outreach Program director Bonnie Kaiser (far left), talks with science outreach student Chioma Uzoigwe (middle) and Siemens Foundation Chairman and CEO Albert Hoser (right) at a luncheon honoring the program's students and teachers on Wed., Aug. 18. Photo by Elena Olivo

Science outreach, continued from page 1

Science Outreach students are female and one-quarter to one-third of the students are disadvantaged or underrepresented in science. In 1996-1997, four of the 10 finalists for the National Neuroscience Prize were participants in Rockefeller's Science Outreach Program, and one of these finalists won the competition. Every year, about 10 percent of the students become INTEL semifinalists and some have gone on to become final-

ists and winners. In July, the program received a \$350,000 grant from the Howard Hughes Medical Institute to continue to support its core program. More than 100 biomedical research institutions competed for the grants, which awarded \$12.7 million to 35 institutions. "We are deeply honored that the NIH and the HHMI continue to recognize the long-term value of giving K-12 teachers and high school students these intense summer research experiences," says Kaiser.

Rockafella

Hollywood comes to campus

If you wondered whose campers were parked in the North lot during the month of July, pondering current Hollywood productions would give you some clues. The camera-shy Robert DeNiro considered Rockefeller

University's campus an ideal place to be discreet and safe while coming and going to location shoots in New York City for his current film, *Fifteen Minutes*. The three campers were at Rockefeller from July 17 to Aug. 2.

Potpourri

Medical Staff

A mandatory meeting of RU medical staff is scheduled for Wed., Sept. 15, at 12 noon in 110B Nurses' Residence. Contact Dale Miller, x8411.

Choral Sympony Society

The Choral Symphony Society is looking for new voices. Openings in all sections. Rehearsals are held Tuesdays (beginning Tues., Sept. 14) at 7:30 p.m. in the Music Room. Bach's Christmas Oratoriowill be performed at our December concert. Please call David Labovitz (212) 864-7541.

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.

Abby Dining Room

The Abby Dining Room will reopen its buffet lunch on Tues., Sept. 21.

Tri-Institutional Noon Recitals

The first Tri-Institutional Noon Recital will be held Fri., Sept. 24.

Security

Security can be reached from anywhere on campus by dialing x1111.

Restaurant discount

Baluchi's Indian Food Restaurant (1149 1st Ave., on the corner of 63rd St.) already offers a lunch discount of 50 percent on menu items between noon and 3 p.m. In addition, the restaurant is extending a dinner discount of 20 percent off for all Rockefeller University faculty, students and staff. Just present your Rockefeller I.D., and they will take 20 percent off the food items on your check. They also offer catering, parties and takeout. (Discounts are available for eat-in meals only.)

News&Notes deadline

The deadline for submission of text for Potpourri and other News Notes sections is one week prior to print. Deadlines for the Sept. 17, 24 and Oct. 1 issues are Sept. 10, 17 and 24, respectively.

BookCorner

Molecular Strategies in Biological Evolution is a new publication of the New York Academy of Sciences, based on the conference by the same name held at RU. Included in the volume are remarks by RU Professor Emeritus Maclyn McCarty, an overview of Weiss poster session by Professor David Thaler and an introduction by former Merrifield lab postdoc Lynn Caporale. For information contact skeramedjian@nyas.org

Bridge construction update

Construction of the pedestrian bridge linking the south end of the university's campus and its 38-story residential housing at 63rd Street and York Avenue has begun. The bridge will unite the two parts of the campus, which are separated by 63rd Street, and allow the 400 families who live in Scholar's Residence and Faculty House direct access to their laboratories and to the daycare and nursery school located on the main campus.

Spanning 123 feet and rising 34 feet above the roadway, the bridge will have a maximum vertical thickness of 2-1/2 feet, with a 5-foot-high railing designed to maximize visibility. From the beginning, one of the design goals has been to preserve the views to the river from areas west of the campus. The cable-stayed design eliminates the need for the deep

girders and intermediate supports found in a traditional pier-and-beam structure, resulting in a less invasive construction sequence and a less visually intrusive structure. Wendy Evans Joseph, President-elect of the New York chapter of the American Institute of Architects, is the architect of the pedestrian bridge.

During September there will be two ramp closures from the FDR highway on Sundays between midnight and noon, one of them occurring this Sunday. Beyond that, construction activities will interfere minimally with the university and neighborhood communities, according to Majid Jelveh, project manager, Planning and Construction. News & Notes will provide frequent updates on the bridge's progress. The entire project is scheduled for completion in early 2000.

Strang, continued from page 1

attract world-class researchers and provide them with the facilities and resources they will need to make vital contributions in the effort to understand how cancer develops and what measures can be taken to reduce its occurrence."

"This funding is particularly meaningful, both for its great scientific potential and because it opens a new chapter in the collegial friendship between the two fine institutions," says Richard B. Fisher, chairman of the board of trustees of Rockefeller University. Jack Fishman, the director of research for the Strang Cancer Research Laboratory, is a former member of the Rockefeller faculty who has maintained close ties with the university as a scientist and a benefactor. Fishman and his colleagues have been in residence on the Rockefeller campus since 1995. President Levine is a member of the scientific advisory board at Strang, and with this announcement, Osborne has been nominated as an adjunct professor at Rockefeller.

A committee chaired by President Levine will conduct the search for the distinguished investigator to occupy the Strang chair; Levine has invited Fishman to serve on this committee. The recruitment of the Strang Professor will be conducted in accordance with the university's policies and procedures for appointment of a tenured faculty member, including final approval by the university's board of trustees.

At the Strang Cancer Prevention Center, which was founded in 1933, scientists are engaged in cancer research and the clinical application of that research, as appropriate, to patient needs.

Beginning with the introduction of the Pap test for early detection of cervical cancer and sigmoidoscopy for early detection of colon cancer, Strang has been dedicated to cancer prevention and early detection. The Strang Center's current activities include studies of the links between diet and cancer risk, and research on the use of various agents, including the breast cancer drug Tamoxifen, to prevent cancer.

Rockefeller scientists discover a surprising new cancer gene

Darnell lab shows that the Stat3 protein can, by itself, cause normal cells to behave like cancer cells.

Rockefeller University scientists have found, for the first time, that the persistent activation of a protein called Stat3 can, by itself, cause normal cells to behave like cancer cells. The research, reported in the Fri., Aug. 6 issue of *Cell*, provides both a scientific surprise and a promising new target in the fight against cancer. Scientists already knew that Stat3 was often activated in various human cancer types, including lymphomas, leukemias, breast cancer and a high percentage of head and neck cancers, but until now no one knew whether persistent Stat3 activation could contribute directly to the development of tumors.

"In my mind, our laboratory findings on Stat3 activation in cultured cells and in cells injected into animals provide a strong basis for believing that the high levels of active Stat3 in clinical tumor samples are an important part of the cancer process," says co-author James Darnell Jr., Vincent Astor Professor and head of the Laboratory of Molecular Cell Biology at Rockefeller. "Furthermore, interruption of these high levels of active Stat3 should provide potent anti-tumor activity."

The family of STAT proteins plays an important role in many normal developmental processes, but during the past several years, a growing number of scientific reports have indicated that human tumor samples contain persistently activated Stats (Stats 1, 3 and 5 most frequently). Similarly, reports have also cited a persistent activation of Stat proteins, particularly Stat3, in cell lines started from human tumors and in laboratory experiments in which oncogenes (cancer-causing genes) are used to turn normal cells into cancer cells. These observations suggested at least a supplementary role for persistently activated Stat3 in tumor development.

The new research showing that activated Stat3 could, by itself, act as the transforming agent was performed in Darnell's laboratory, which discov-



Professor James Darnell Jr. (left) and Postdoctoral Fellow Jacqueline F. Bromberg discovered that a protein called Stat3 can, by itself, cause normal cells to behave like cancer cells. Photo by Liana Miuccio

ered the Stats and pioneered studies of the activation of these proteins. The paper's first author, Jacqueline F. Bromberg, is a postdoctoral fellow in Darnell's lab and an assistant professor at Memorial Sloan-Kettering Cancer Center, where she conducts studies of and treats breast cancer patients with

become inactive again. Therefore, to study persistently active Stat3, the lab had to find a way to make a Stat3 molecule that would be constantly active. Melissa Wrzeszczynska, a co-author and postdoctoral fellow in the Darnell lab, suggested that a particular genetic change be made in the Stat3 gene that

"Most people think oncogenes depend on mutations, but the Stat3 that is persistently active in human cancers may be a normal protein; only its level of activation is abnormal."

Larry Norton.

Normally, Stat proteins are inactive until cells receive an outside stimulus by such proteins as interferon, erythropoietin (Epo), growth hormone or many other proteins that circulate in the body. The active Stat then moves to the nucleus to turn quiescent genes on. After a short period of activity, the Stats

might cause cells with this altered gene to make Stat3 protein that would be active without any outside stimulus. The suggestion worked, and the researchers called this new, persistently active molecule Stat3-C ("C" because the new Stat3 proteins had two extra residues of the amino acid cysteine).

Cells with Stat3-C grew in a cancerous way in soft agar (a jellylike substance in which cancer cells, but not normal cells, can grow), and these cells also caused tumor development in "nude" mice (animals that accept foreign cells and can therefore be used to test the tumorlike behavior of cells in an animal). The results of these experiments demonstrate that persistently active Stat3 does indeed possess the potential to cause cancer.

The discovery is surprising because Stat3 isn't a usual oncogene. "Most people think oncogenes depend on mutations," Darnell observes. "But the Stat3 that is persistently active in human cancers may be a normal protein; only its level of activation is abnormal. What we have shown is that if you can make Stat3 that is persistently active, it will cause tumors."

The "downstream" events of persistently active Stat3 that lead to tumor growth are still unclear, but by turning genes on, the Stat3 may enhance conditions for cell cycle progression and/or provide protection against cell death, thus allowing a cancer cell to grow unchecked.

Bromberg's clinical interest in breast cancer led the lab to use this approach to the study of Stat3 function in cancer. (Her current, unpublished studies—and those of others, including a group headed by Richard Jove at the Moffitt Cancer Center in Florida—found that more than 50 percent of fresh breast cancer samples show Stat3 activation, although a greater number of samples must be studied before this result can be considered established.)

Darnell and Bromberg suggest that persistently activated Stat3 presents an attractive target for the discovery of drugs that will inhibit the activation or action of Stat3. Such drugs should have the potential to inhibit the growth or induce the death of human cancer cells.

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was learning about the university while grappling with changes in leadership and the plummeting stock market. With the scene set, Planning and Construction Director George Candler recounted how he had to inform Bohlen that the contractor for the glass curtain wall of the Rockefeller Research Building had gone bankrupt.

"It was one of my first experiences working with Fred. We proceeded to spend Christmas vacation together selecting and negotiating with new contractors and were able to preserve the schedule and budget when the situation easily could have become a major catastrophe. I was struck by his willingness to pitch in and support me, and I learned a lot about his steadfast-

ness," says Candler.

In a letter announcing his resignation, Bohlen said, "I have relished and derived great professional and personal satisfaction from the opportunity to help revive and rebuild Rockefeller University through the decade of the 1990s. In recent years, I also enjoyed the talented professional support and personal dedication of a crack team of administrative colleagues, the best team I have ever worked with. Indeed, I would hope to be remembered longest not just for leading the charge against chronic budget deficits — a necessary but in no way sufficient accomplishment — but for other successes too and most especially for the colleagues who worked at my side, most of whom I recruited. They represent my proudest contribution to the vitality and robust

functioning of the Rockefeller now and in the years ahead."

Many of those colleagues attended the dinner and took turns acknowledging Bohlen's role as mentor and his courage in helping them meet the tasks for which they were hired, from taking the library electronic to improving faculty housing.

"Fred faced enormous pressures at this university, but always with grace, civility and a lot of good sense," said William Griesar, vice president and general counsel. Added President Levine, "Fred came in during difficult times and redid the university from top to bottom. He took the university from a place that was doing good science but bleeding financially to one that is just humming in all respects."

Bohlen will work with the university

in a consulting capacity during the next year, maintaining an office on the second floor of Caspary Hall. He will also serve as trustee to several charitable organizations. "I look forward to having the chance to pursue a less intense, but still beneficial measure of service to institutions like Rockefeller that are beacons for our most important aspirations and hopes as human beings."

In addition, Bohlen intends to kick up his heels with a growing brood of grandchildren and unfurl the sails on passions that long ago yielded to the limits of time, such as sailing and golf. About to embark on a trip to Maine, a long-time family retreat, Bohlen said, "This will be the first fall when the leaves turn golden and the breezes blow cooler that I don't have to rush back to a desk full of work."

SEPTEMBER

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18

OCTOBER

calendar of events

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

THE ROCKEFELLER UNIVERSITY—Please post

FRIDAY, SEPTEMBER 17

9 a.m.–5 p.m. **The Living Brain.** Mary E. Hatten, RU; Mark H. Ellisman, UC San Diego; Andrea Brand, U. of Cambridge; Nicholas Spitzer, UC San Diego; David Colman, Mount Sinai School of Medicine; and Ronald D. McKay, NINDS, NIH. New York Society of Experimental Microscopists 1999 Presidential Symposium. **714 Hunter West Building, Hunter College, 68th St. at Lexington Ave.** Contact Philip L. Leopold, 746-8808, pleopold@mail.med.cornell.edu.

WEDNESDAY, SEPTEMBER 22

12 p.m. **Approaches to Study Functional Gene Expression in Psoriasis.** James G. Krueger, Associate Professor, RU. Seminar in Clinical Research. **110B Nurses Residence.**

THURSDAY, SEPTEMBER 23

12 p.m. **Anabolic Androgenic Steroid Effects on Brain and Behavior.** Marilyn Y. McGinnis, Professor, Dept. of Cell Biology and Anatomy, Mount Sinai School of Medicine. Endocrinology and Reproductive Biology Seminar. **301 Weiss.**

FRIDAY, SEPTEMBER 24

12 p.m. **Role of Transcription Factors in Blood Cell Commitment.** Thomas Graf, Professor, Albert Einstein College of Medicine. Molecular Biology Seminar. **116 Rockefeller Research Laboratories, MSKCC, 430 East 67th St.**

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The *Calendar of Events* is published Fridays throughout the academic year. Deadline for submitting events is 2:00 P.M. Tuesday. Events submitted by the Tuesday two weeks before the event will be announced in two consecutive calendars—space permitting.

Events may be submitted via e-mail to rucal@rockvax.rockefeller.edu, through the World Wide Web (<http://www.rockefeller.edu/rucal/calsubmit.html>), or by fax (212-327-7876).

To reserve space for on-campus events, email roomres@rockvax.rockefeller.edu or fax to Julie Francis (212-327-7876). Items will not be listed in the calendar without a previously confirmed room reservation.

To subscribe to the Calendar of Events mailing list, send e-mail to Macjoromo@comm.rockefeller.edu with SUBSCRIBE RUCAL-L <Your Name> in the body of the message.

MONDAY, SEPTEMBER 27

4 p.m. **NMR Studies of T-Cell Protein Interactions.** Gerhard Wagner, Dept. of Biological Chemistry and Molecular Pharmacology, Harvard School of Medicine. NMR Structural Biology Seminar. **301 Weiss.**

WEDNESDAY, SEPTEMBER 29

5:30 p.m. **The Future of Biomedical Science—What We Will be Able to Do and What We Will be Allowed to Do.** Daniel E. Koshland, Professor of Biochemistry and Molecular Biology, UC Berkeley; Former Editor, Science Magazine. Zanvil A. Cohn Forum on Health Affairs. **Caspary Auditorium.** Sherry Reception, 5 p.m., Abby Aldrich Rockefeller Lounge. Contact Gloria Phipps, 327-8967.

MONDAY, OCTOBER 4

11 a.m. **Gene, Peptide and Circadian Behavior—Lessons from Misexpressing Neuropeptide Pigment-dispersing Factor in *Drosophila melanogaster*.** Marcus Taeuber, U. of Regensburg, Germany. Lecture. **305 Weiss.**

TUESDAY, OCTOBER 5

4 p.m. **Recent Advances in Nutrition and Cancer Prevention.** Richard S. Rivlin, Program Director, CNRU, GI-Nutrition Service, MSKCC; Professor of Medicine, WMCCU; Chief, Nutrition Division, NYPH. CNRU Monthly Meeting. **103 Rockefeller Research Laboratories, MSKCC, 430 E. 67th St.**

FRIDAY, OCTOBER 8

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. **116 Rockefeller Research Laboratories, MSKCC, 430 E. 67th St.**

WEDNESDAY, OCTOBER 13

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

THURSDAY, OCTOBER 14

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. **F-539 NYPH-CMC Conference Room, 1300 York Ave.**

MONDAY, OCTOBER 18

9:30 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, mcmillg@rockvax.rockefeller.edu.

The Arts and Other Events

WEDNESDAY, SEPTEMBER 22

8 p.m. **Peggy Rockefeller Concerts.** Petra Lang, mezzo-soprano, and Dennis Helmrich, pianist, performing works by Reger, Schumann, Wagner and Strauss. **Caspary Auditorium.** Contact Cathy Rogers, 327-8437.

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, SEPTEMBER 17

Molecular Analysis of Aging. Leonard Guarente, Professor of Biology, MIT.

FRIDAY, SEPTEMBER 24

Structural Features of Antigen Presentation. John W. Kappler, Member, Dept. of Medicine, National Jewish Medical and Center, and Professor of Immunology and of Medicine, U. of Colorado Health Sciences Center, Denver; Investigator, HHMI.

FRIDAY, OCTOBER 1

Structure and Function of Prokaryotic RNA Polymerases. Seth Darst, Associate Professor, RU.

FRIDAY, OCTOBER 8

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

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