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news & notes

T H E N E W S L E T T E R O F T H E R O C K E F E L L E R U N I V E R S I T Y

FRIDAY LECTURE

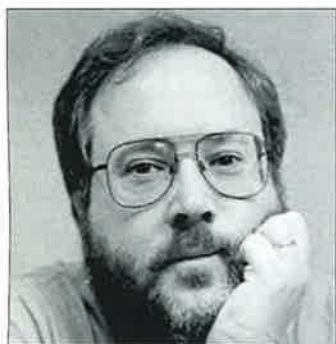
Rubin to discuss new approaches to the fly genome today

Gerald Rubin, a professor of genetics at the University of California at Berkeley and vice president for biomedical research at the Howard Hughes Medical Institute, will speak today (Nov. 3) about "Experimental and Computational Approaches Toward Understanding the *Drosophila* Genome."

Rubin's laboratory studies the structure and function of the genome of the fruit fly *Drosophila melanogaster*. They develop the biological and computer-based tools needed to analyze and display the vast amount of information being derived from the sequencing of this genome. Then they use these tools to address issues in genome organization and function, development, and evolution. They are also continuing long-standing efforts to use large-scale genetic screens to elucidate gene-regulatory and signal transduction pathways.

The nucleotide sequence of the *Drosophila* genome has recently become available through a collaborative effort of the Berkeley *Drosophila* Genome Project and Celera Genomics, Inc. The value of these sequence data will be enormously enhanced if the structure of each transcription unit and its pattern of expression can be established. Eventually

continued on page 2



Rubin will discuss biological and computer-based tools to help analyze and display the vast amount of information being derived from the sequencing of the fruit fly genome.

Fight against infectious disease takes center stage

Hard Copy



Public health expert Ruth Berkelman will discuss "Pathogens, Populations and Plagues" at a Centennial Lecture on Science and Society next Wed., Nov. 8. The following day, Rockefeller University scientists will host an all-day centennial symposium on infectious disease.

The Rockefeller University will turn its focus on infectious disease and antibiotic resistance next week with two events that spotlight the current state of research against such plagues as tuberculosis, AIDS and hepatitis C.

Centennial lecture

On Wed., Nov. 8, Ruth Berkelman, of Emory University's Rollins School of Public Health, will discuss "Pathogens, Populations and Plagues" at a Centennial Lecture on Science and Society. Berkelman is a leader in the nation's infectious disease

control efforts. She recently retired from the U.S. Public Health Service at the rank of Assistant Surgeon General after 20 years of service with the Centers for Disease Control and Prevention (CDC).

Berkelman received her M.D. from Harvard University in 1977 and joined the CDC in 1980. She headed CDC's AIDS programs as director of the Division of Surveillance and Epidemiologic Studies, and was named deputy director of the National Center for Infectious Diseases in 1992. In 1998, she became senior

adviser to the director of CDC. Berkelman was a founding member of the Division of Public Health of the American Society of Microbiology, served on the Infectious Disease Committee of the American Academy of Pediatrics, and the governing Council of the American Public Health Association. Her talk begins at 6 p.m. in Caspary Auditorium.

Centennial symposium

Then, on Thurs., Nov. 9, scientists from the university will

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Archive Center to host history conference

The Rockefeller Archive Center will host a two-day symposium on the history of the university on Mon., Nov. 13, and Tues., Nov. 14, in Caspary Auditorium. The series of scholarly talks was organized by the center as part of the university's centennial celebration.

The morning of the first day Bert Hansen of Baruch College, Ron Chernow, author of *Titan: The Life of John D. Rockefeller, Sr.*; and Peter J. Johnson, co-author of *The Rockefeller Century and The Rockefeller Conscience* will give talks about "The Idea of a Great Research Institution." At noon, Rogers Hollingsworth of the University of Wisconsin will give a talk entitled "The Model of a Modern Biological Research Institution: A Century of The Rockefeller." In the afternoon, Aya Takahashi of Iwaki Meisei University, Abigail O'Sullivan of Oxford University, Professor Emeritus Robert L. Schoenfeld of The Rockefeller

University, Shelley McKeller of the University of Toronto and Olga Amsterdamska of the University of Amsterdam will give talks about the first 50 years of The Rockefeller University. The evening's program will be a centennial lecture entitled "The Future of Research at 68th & York" by Arnold J. Levine, president of The Rockefeller University; Herbert Pardes, president of New York-Presbyterian Hospital; Antonio Gotto, dean of Weill Medical College of Cornell University; and Harold Varmus, president of the Memorial Sloan-Kettering Cancer Center.

The second day's program begins with talks about research and researchers. Sabine Brauckmann of the University of Münster will give a talk, as will Rockefeller University's Jules Hirsch, head of the Laboratory of Human Behavior and Metabolism; Elizabeth Hanson and Carol Moberg. At noon, Robert Olby of the Uni-

versity of Pittsburgh will discuss "Rockefeller University and the Molecular Revolution in Biology." The afternoon's program, "Issues in the History of The Rockefeller University," will include talks by Hanna Landecker of the Max Planck Institute for the History of Science, Ton van Helvoort of the University of Maastricht and Bernard Unti of American University. The symposium will conclude with a panel discussion on "Reflections on How Great Science Happened at The Rockefeller"; the panelists will be President Levine; Purnell W. Choppin, president emeritus of the Howard Hughes Medical Institute; James E. Darnell, Jr., head of the Laboratory of Molecular Cell Biology; and Jules Hirsch.

The conference evolved out of a special grant program to encourage scholars to do research on the history of Rockefeller University. The grants provided stipends for

more than a dozen researchers to go to the Archives Center for one or two weeks to do research. A committee reviewed and selected the recipients for the special grants for research at the Archive Center on the history of the university; the committee was chaired by Hirsch and included Peter Sellers and Professor Emeritus Norton Zinder.

"We have a diverse, international group of researchers," says Darwin Stapleton, director of the Archive Center. "There are distinguished senior scholars who have recently turned their attention to the university, as well as younger people who have just received their doctorates, plus people from the university itself. This gives the program a nice range of scholarly traditions and interesting cross-cutting views on the history of the university."

Please consult www.rockefeller.edu/archive.ctr/rucent2.html for details.

RU Council holds fall meeting

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On Wed., Oct. 11, the fall meeting of The Rockefeller University Council featured guest speaker Eric S. Lander (right), director of the Whitehead Center for Genome Research and a professor at M.I.T. More than 170 Council members and their guests heard Lander's presentation "Learning the Language of Life: How Genomics will Transform Medicine."



Left: Debra S. Heinrich, a member of the Rockefeller University Council Executive Committee and of the *Women & Science* Committee, joined Council Chairman Richard M. Furlaud.



Below: At a reception following the program, guest John Kluge (at left) talked with David Rockefeller, honorary chairman of the Rockefeller University Council.



- 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 (T.R.I.P.) – Transportation Reimbursement Incentive Program.

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.

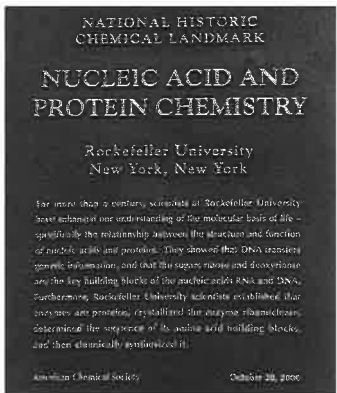
Abby Dining Room schedule

The Abby Aldrich Rockefeller Dining Room will be closed on Wed., Nov. 8.

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 corner



Chemists in their element

On Fri., Oct. 20, the American Chemical Society (ACS) dedicated the campus as a National Historic Chemical Landmark at a

ceremony on the steps of Flexner Hall. During the first 100 years at Rockefeller, five Nobel laureates in chemistry did their Prize-winning work on campus. The day's activities also featured talks by David N. Rahni, chair of the New York Section of the American Chemical Society; Rockefeller University Professors Emeriti Bruce Merrifield and David Mauzerall and Professors Thomas Sakmar and Günter Blobel. Later in the afternoon, Nobel laureate John Walker of the University of Cambridge delivered the Jerry A. Weisbach lecture.



From left to right: Rockefeller University President Arnold J. Levine; David N. Rahni, chair of the New York section of the ACS, which proposed the campus for the society's Historic Chemical Landmarks Program; Professor Emeritus Bruce Merrifield; Professor Thomas Sakmar; Professor Emeritus David Mauzerall and Professor Günter Blobel.

New exhibit to highlight "intellectual pedigrees"

A new exhibit for The Rockefeller University Centennial opens next Fri., Nov. 10, in the lobby of the Rockefeller Research Building.

Entitled "Mentors and Students: An Intellectual Pedigree of The Rockefeller University," it traces lineages of Rockefeller scientists

that span the century from the university's founding to the present.

The pedigree chart is silkscreened on a blackboard, so as to be interactive. Members of the Rockefeller community are invited to pick up a piece of chalk and add names to the tree.

In addition, the exhibit includes a book with pages for every laboratory at the university today to draw or paste in its pedigree—the students, postdocs, and others who have worked in the lab, and their students in turn.

The completed book will be a legacy of the Rockefeller Uni-

versity Centennial—a record, for future generations, of who worked here at this significant anniversary, and of Rockefeller scientific family history.

Infectious disease continued

present a day-long symposium dedicated to "Infectious Disease and Antibiotic Resistance in the Postgenomic Era: Lessons from HIV, Hepatitis C and Tuberculosis."

The morning's talks, which will be introduced by Professor and HHMI Investigator Stephen K. Burley, will focus on pathogen-host interactions.

Speakers include Assistant Professor John McKinney, who will discuss "Persisting Problems in Tuberculosis"; Professor David D.

Ho, who will discuss "HIV Infection: Dynamic Replication and Chronic Persistence"; Professor Charles M. Rice, who will discuss "Hepatitis C: A New Era for Basic Studies and Drug Discovery"; and Professor Ralph M. Steinman, who will discuss "Dendritic Cells and Resistance to Virus Infection: The Epstein Barr Virus Example."

The afternoon's talks, to be introduced by Rockefeller University President Arnold J. Levine, will deal with "Molecular

Tools in Combating Infectious Disease." Speakers will include Professor Alexander Tomasz, who will discuss "Molecular Mechanisms of Antibiotic Resistance"; Professor Vincent A. Fischetti, who will discuss "Strategies to Block Infection at the Mucous Membrane Surface"; Assistant Professor Tom W. Muir, who will discuss Virulence in *S. aureus*"; Assistant Professor Theresa Gaasterland, who will discuss "Co-expression, Co-transcription and Co-variation: Computational Explanations of Gene Expression

Patterns"; and Burley, who will discuss "Structural Genomics of Antibiotic Resistance."

The symposium takes place in Caspary Auditorium. For information about the times of individual talks, see the sidebar on page 3. Additional information is available on the Rockefeller University Web site at www.rockefeller.edu/lectures/ruids.html.

Rubin continued

Rubin's lab wants to understand the function of every product of every gene; however, protein function in a multicellular organism depends on context, post-translational modification, and other factors they do not understand well enough to model (and which thus will almost certainly need to be determined experimentally). Such functional studies will benefit greatly from the generation of mutations in each gene. One of the goals of Rubin's group is to develop methods for generating databases of gene structure and expression, as well as collections of both loss-of-function and gain-of-

function mutations, that are efficient enough to be applied on a genome-wide basis.

Genetic screens for loss-of-function mutations that affect a particular process will continue to play an important role in understanding the function of genes. Over the past several years, Rubin's lab has carried out such screens to uncover components of various cellular pathways. These studies have in common with modern genome research their wide scope—all the genes in the genome are assayed in a single experiment—and their lack of a specific hypothesis.

In addition, Rubin directs the *Drosophila* Genome Center at Berkeley. *Drosophila* is an important resource for medical research largely because one can apply genetic methods that cannot be used in humans to isolate mutations affecting a process of interest in an unbiased way and then assemble the relevant genes into pathways and regulatory networks. The human genome contains an estimated 60,000 genes, but these genes encode the components of perhaps only a few hundred multicomponent, core biological processes. Data from a large number of studies have shown that many of the compo-

nents of biological processes and the way in which they interact are conserved between the invertebrate model organisms and humans. More surprising is the extent to which the developmental and physiological functions of these core processes appear to be conserved.

Rubin's lecture 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.



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Two Rockefeller faculty receive early-career awards

Assistant Professors Theresa Gaasterland and Milton Werner recently received awards that are given to outstanding scientists at an early stage in their careers.

Gaasterland, a computational biologist at The Rockefeller University, was one of 20 National Science Foundation-supported researchers named by President Clinton as recipients of the fifth annual Presidential Early Career Awards for Scientists and Engineers (PECASE), the highest honor bestowed by the United States government on young professionals at the outset of their independent research careers. The awards were presented yesterday at the White House Old Executive Office Building by the president's science advisor, Neal Lane.

Gaasterland is head of the Laboratory of Computational Genomics, which focuses on designing and developing computational methods to handle the huge amount of data generated by genome sequencing projects. In collaboration with sequencing groups in the United States, Canada and Europe, she created and spent several years refining a system called MAGPIE (Multi-purpose Automated Genome Project Investigation Environment) to analyze data in real time and beyond the lifetime of the sequencing project.

In her laboratory at Rockefeller, she works to combine artificial intelligence and database search engines to make this data accessible to scientists and to drive the construction of logical models of organisms. Her goal is to create models that will, in turn, lead to better drug targets for pathogenic organisms, improved understanding of genomic regions associated with human disease and deeper insight into the evolution of biochemical pathways.

Computational biology requires massive computing power, so Gaasterland has teamed up with Andrej Šali, associate professor

and head of a Laboratory of Molecular Biophysics, to build a 218-CPU supercomputer at Rockefeller for integrated genome annotation and protein structure modeling. Šali uses the protein-encoded regions identified by Gaasterland to predict protein structure using a computer program he developed called MODELLER.

Gaasterland came to Rockefeller in 1998 as an assistant professor and head of laboratory. She received a bachelor's degree in computer science and Russian in 1984 from Duke University, where she was an Angier B. Duke Scholar. She went on to the University of Maryland, where she received a master's degree (1988) and a doctoral degree (1992), both in computer science. After receiving her doctoral degree, Gaasterland spent six years at the U.S. Department of Energy's Argonne National Laboratory, first as an Enrico Fermi Postdoctoral Scholar (1992-1994), then as an assistant scientist (1994-1998).

The Clinton Administration established the PECASE awards in February 1996 to recognize some of the nation's finest junior scientists and engineers and to maintain U.S. leadership across the frontiers of scientific research. Since then, three Rockefeller University scientists have received the honor. Ali Hemmati-Brivanlou, professor and head of the Laboratory of Molecular Vertebrate Embryology, was Rockefeller University's first recipient of the PECASE in 1996. Peter Momaberts, assistant professor and head of the Laboratory of Developmental Biology and Neurogenetics, received the award in 1997.

Werner, head of a Laboratory of Molecular Biophysics, is one of five scientists in the United States to be named a Distinguished Young Scholar in Medical Research by the W.M. Keck Foundation.

Now in its second year, the Young Scholars program is a five-year, \$25 million initiative designed to support groundbreaking research into the fundamental mechanisms of human disease by a select group of investigators who exhibit extraordinary promise early in their careers. The program was developed by the Keck Foundation in response to the difficulty many talented young researchers have securing sufficient funding for their pursuit of promising but unproven ideas.

Werner uses NMR spectroscopy and other biophysical techniques to understand the genetic and structural basis of inherited blood and bone disorders. His research team focuses on the fundamental mechanisms of cell signaling and gene expression that guide cell growth and death, and which, when malfunctioning, lead to human disease. To date, his lab has illuminated the relationship between protein's regulation of



Werner, head of a Laboratory of Molecular Biophysics, uses NMR spectroscopy and other biophysical techniques to understand the genetic and structural basis of inherited blood and bone disorders.

gene expression and myeloid cell development; defects in this protein, known as AML1, are a precursor to the development of acute human leukemia. The family of activator proteins he studies are involved in cellular differentiation and have been shown to play a role in approximately 40 percent of all acute onset leukemia cases.

Werner was educated at the University of Southern California, where he received a bachelor's degree, summa cum laude, in 1984, and a master's degree in 1985. He did his graduate work with David Wemmer at the University of California, Berkeley, and he received his doctoral degree in chemistry in 1991. He joined Rockefeller in 1997 after doing postdoctoral work at the National Institute of Diabetes, Digestive and Kidney Diseases with G. Marius Clore and Angela Gronenborn.

Under the program, each grant recipient's institution will receive an award of up to a total of \$1 million to support the scientist's research activities for a period of up to five years, as well as enable the institution to purchase necessary equipment and resources to facilitate their ongoing study.

Each applicant was nominated by his or her academic institution and then evaluated individually by the Foundation's Medical Research staff, an outside panel of scientific expertise, and the "Young Scholars" Scientific Advisory Committee.



Gaasterland works to combine artificial intelligence and database search engines to make this data accessible to scientists and to drive the construction of logical models of organisms.

Centennial Symposium on Infectious Disease and Antibiotic Resistance in the Postgenomic Era: Lessons from HIV, Hepatitis C and Tuberculosis

Thurs., Nov. 9
Caspary Auditorium

Pathogen - Host Interactions

9:30 - 10:00 a.m.
Introduction by Stephen K. Burley

10:00 - 10:30 a.m.
John McKinney
Persisting Problems in Tuberculosis

10:30 - 11:00 a.m.
David D. Ho
HIV Infection: Dynamic Replication and Chronic Persistence

11:30 - 12:00 noon
Charles M. Rice
Hepatitis C: A New Era for Basic Studies and Drug Discovery

12:00 - 12:30 p.m.
Ralph M. Steinman
Dendritic Cells and Resistance to Virus Infection: The Epstein Barr Virus Example

Use of Molecular Tools in Combating Infectious Disease

1:45 - 2:00 p.m.
Introduction by President Arnold J. Levine

2:00 - 2:30 p.m.
Alexander Tomasz
Molecular Mechanisms of Antibiotic Resistance

2:30 - 3:00 p.m.
Vincent A. Fischetti
Strategies to Block Infection at the Mucous Membrane Surface

3:00 - 3:30 p.m.
Tom W. Muir
Virulence in *S. aureus*

4:00 - 4:30 p.m.
Theresa Gaasterland
Co-expression, Co-transcription and Co-variation: Computational Explanations of Gene Expression Patterns

4:30 - 5:00 p.m.
Stephen K. Burley
Structural Genomics of Antibiotic Resistance

All speakers are from The Rockefeller University.



calendar

N O V E M B E R 3 T H R O U G H N O V E M B E R 1 8

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 3

Experimental and Computational Approaches Toward Understanding the *Drosophila* Genome. Gerald Rubin, Professor of Genetics and Development, UC Berkeley, and Vice President for Biomedical Research, HHMI.

FRIDAY, NOVEMBER 10

Obstacles to the Treatment of HIV-1 Infection. David Ho, Professor and Scientific Director, Aaron Diamond AIDS Research Center, RU.

THURSDAY, NOVEMBER 16

Thesis Presentation: Daniel Lim, Biomedical Fellow, RU.

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, NOVEMBER 3

10:00 A.M. **Regulation of Plasmablast Growth and Plasma Cell Survival.** Ian C.M. MacLennan, Professor, U. of Birmingham, England. Center for Research for Multiple Myeloma Seminar. C-405 WMCCU, 1300 YORK AVE. REFRESHMENTS WILL BE SERVED. CONTACT MICHELE LAVARDE, 746-6440.

12:00 P.M. **Starting and Finishing Meiotic Recombination.** Michael Lichten, Senior Investigator, Laboratory of Biochemistry, National Cancer Institute, NIH. Molecular Biology Seminar. 116 ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. REFRESHMENTS AT 11:45 A.M.

MONDAY, NOVEMBER 6

12:00 P.M. **Antiretroviral Resistance and HIV Pathogenesis during Therapy.** Richard Thomas D'Aquila, Mass. General Hospital. CFAR Seminar. SIXTH FLOOR CONFERENCE ROOM, ADARC, 455 FIRST AVE. CONTACT GARY GAILOR, 212-448-5163.

1:30 P.M. **Analyses of Autoimmune Disease QTL: A Unique View of the Immune System.** Linda S. Wick-er, Senior Investigator, Merck Research Laboratories, Immunology Seminar. 2ND FLOOR CONFERENCE ROOM, HSS, 535 E. 70TH ST.

2:00 P.M. **Rapid, Quantitative Real Time PCR.** Tamlyn Schafer, Technical Director, Cepheid. Seminar. 301 WEISS.

TUESDAY, NOVEMBER 7

4:00 P.M. **Diindolylmethane, An Improved Indole Derivative: Its Quantitation and Clinical Application in Cancer Prevention.** Daniel Sepkovic, Senior Research Associate, Strang Cancer Research Laboratory, Strang Cancer Prevention Center. CNRU Research Lecture. 117 ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. CONTACT LINDA COTTE, 639-8352.

WEDNESDAY, NOVEMBER 8

10:30 A.M. **Biostatistics Course.** Knut Wittkowski, Biometrician and Senior Research Associate, RU Hospital. 1A CASPARY. CONTACT KNUT WITTKOWSKI, 327-7175. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

12:00 P.M. **The Hereditary Periodic Fever Syndromes: New Insights into the Control of Inflammation.** Daniel L. Kastner, Chief, Genetics Section, National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH. Seminars in Clinical Research. 110B NURSES RESIDENCE. CONTACT DALE MILLER, 327-8411.

4:00 P.M. **Processivity and Inversability of Molecular Motors.** Jacques Prost, Institut Curie. Center for Studies in Physics and Biology Seminar. B LEVEL CONFERENCE ROOM, SMITH HALL ANNEX. CONTACT MARTIN ZAPOTOCKY, 327-8835.

4:30 P.M. **Functional Analysis of BRCA1 and 2.** David Livingston, Emil Frei III Professor of Medicine, Harvard Medical School and Dana Farber Cancer Institute. MSKCC President's Research Seminar. AUDITORIUM, ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. TEA AT 4:00 P.M.

6:00 P.M. **Pathogens, Populations and Plagues.** Ruth Berkelman, Professor, Dept. of Epidemiology, Rollins School of Public Health, Emory U. Centennial Lectures on Science and Society. CASPARY AUDITORIUM. CONTACT BOBBIE LARRAGA, 327-7240.

THURSDAY, NOVEMBER 9

9:00 A.M.-5:00 P.M. **Infectious Disease and Antibiotic Resistance in the Postgenomic Era: Lessons from HIV, Hepatitis C and Tuberculosis.** Centennial Symposium. CASPARY AUDITORIUM. CONTACT BOBBIE LARRAGA, 327-7240. FOR A COMPLETE SCHEDULE OF SPEAKERS, SEE WWW.ROCKEFELLER.EDU/LECTURES/RUIDS.HTML. ADMISSION IS FREE. ALL ARE WELCOME.

12:00 P.M. **Membrane Mechanisms in Viral and Parasite Entry, Exocytosis and Apoptosis.** Joshua Zimmerberg, Chief, Laboratory of Cellular and Molecular Biophysics, NIH. Biochemistry Lecture. E-115 WMCCU, 1300 YORK AVE. COFFEE AT 11:45 P.M.

4:00 P.M. **Erythroid Polymorphisms and Malaria Susceptibility in Melanesians.** James W. Kazura, Professor of Medicine and International Health, Case Western Reserve U. School of Medicine. 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.

4:00 P.M. **Indole-3-carbinol in the Prevention and Treatment of Cervical Cancer.** Karen Auburn, Associate Professor of Otolaryngology, and Head, Section of Phytochemical Research, Albert Einstein College of Medicine. CNRU Special Nutrition Lecture. D-417 WMCCU, 1300 YORK AVE. CONTACT LINDA COTTE, 639-8352.

FRIDAY, NOVEMBER 10

12:00 P.M. **The Role of Mitochondria in Apoptosis.** Xiaodong Wang, Associate Professor, Dept. of Biochemistry, U. of Texas Southwestern Medical Center, and Investigator, HHMI. Cellular Biochemistry and Biophysics Seminar. 116 ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST.

MONDAY, NOVEMBER 13

9:15 A.M.-5:00 P.M. **Creating a Tradition of Biomedical Research.** Centennial Symposium. CASPARY AUDITORIUM. TO ATTEND CONFERENCE TALKS, REGISTRATION (NO FEE) IS REQUIRED FOR THOSE OUTSIDE THE RU/WMCCU/NYPH/MSKCC COMMUNITY. FOR PRE-REGISTRATION AND FURTHER INFORMATION, CALL (914) 631-4505 OR E-MAIL ARCHIVE@MAIL.ROCKEFELLER.EDU. FOR A COMPLETE SCHEDULE OF SPEAKERS, SEE WWW.ROCKEFELLER.EDU/CENTENNIAL/HISTCONF.HTML. SPONSORED BY THE ROCKEFELLER ARCHIVE CENTER.

12:00 P.M. **Carbohydrate Processing in Pathogenic Bacteria.** James Naismith, Centre for Biomolecular Sciences, St. Andrews U., Scotland. Lecture. 301 WEISS.

12:00 P.M. **Passive Immunization against AIDS Viruses.** Ruth Reprecht, Harvard Medical School and the Dana Farber Cancer Institute. CFAR Seminar. SIXTH FLOOR CONFERENCE ROOM, ADARC, 455 FIRST AVE. CONTACT GARY GAILOR, 448-5163.

12:00 P.M. **The Model of a Modern Biomedical Research Institution: A Century of The Rockefeller.** A public lecture of The Rockefeller University Centennial History Conference. J. Rogers Hollingsworth, U. of Wisc. CASPARY AUDITORIUM.

1:30 P.M. **Transcription Factors That Specify Lineage Commitment in Lymphocytes.** Laurie Glimcher, Professor of Immunology and Infectious Disease, Harvard School of Public Health. Immunology Seminar. WEILL AUDITORIUM, WMCCU, 1300 YORK AVE.

4:30 P.M. **Bicarbonate-regulated Adenylyl Cyclase.** Jochen Buck, Associate Professor, Dept. of Pharmacology, WMCCU. 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. **Trafficking of Ion Transport Proteins in Polarized Cells: Molecular Signals and Physiologic Regulation.** Michael J. Caplan, Professor of Cellular and Molecular Physiology, Yale U. School of Medicine. PBMM Research Seminar. WEILL AUDITORIUM, WMCCU, 1300 YORK AVE. COFFEE AT 4:15 P.M.

7:00 P.M. **At the Crossroads of Science: The Future of Medical Research at 68th and York.** Antonio Gotto, Dean, WMCCU. Arnold J. Levine, President, RU; Herbert Pardes, President, NYPH; Harold Varmus, President, MSKCC. Centennial Lectures on Science and Society. CASPARY AUDITORIUM.

TUESDAY, NOVEMBER 14

9:00 A.M.-5:30 P.M. **Creating a Tradition of Biomedical Research.** Centennial Symposium. CASPARY AUDITORIUM. TO ATTEND CONFERENCE TALKS, REGISTRATION (NO FEE) IS REQUIRED FOR THOSE OUTSIDE THE RU/WMCCU/NYPH/MSKCC COMMUNITY. FOR PRE-REGISTRATION AND FURTHER INFORMATION, CALL (914) 631-4505 OR E-MAIL ARCHIVE@MAIL.ROCKEFELLER.EDU. FOR A COMPLETE SCHEDULE OF SPEAKERS, SEE WWW.ROCKEFELLER.EDU/CENTENNIAL/HISTCONF.HTML. SPONSORED BY THE ROCKEFELLER ARCHIVE CENTER.

11:00 A.M. **Bridging Experiment and Theory Using Biomolecular Dynamics Simulations.** Tamar Schlick, Professor, NYU. Pels Family Center for Biochemistry and Structural Biology Seminar. 301 WEISS. CONTACT ROSER BUSQUETS, 327-7050. COFFEE AND COOKIES AT 10:45 A.M.

12:00 P.M. **The Rockefeller University and the Molecular Revolution in Biology.** A public lecture of The Rockefeller University Centennial History Conference. Robert Olby, U. of Pittsburgh. CASPARY AUDITORIUM.

4:00 P.M. **Designability in Protein Structures.** Chao Tang, NEC Research Institute, Princeton. 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. **Taking Apart Modular Signaling Proteins.** Wendell Lim, UCSF. Tri-institutional Structural Biology Seminar. WEILL AUDITORIUM, WMCCU, 1300 YORK AVE. COFFEE AT 3:45 P.M.

WEDNESDAY, NOVEMBER 15

10:00 A.M.-12:00 P.M. **Melatonin, Birdsong and Seasonal Neuroplasticity.** Gregory Ball, Johns Hopkins U. **Precise Population Dynamics Underlying Vocal Sequences in the Songbird.** Michale Fee, Bell Labs. Neural Plasticity and Learning Seminar. 305 WEISS. CONTACT CONSTANCE SCHARFF, 327-8381. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

12:00 P.M. **Defining the Genomic Responses to G Protein Signals by Engineering Receptors and G Proteins in Transgenic Mice.** Bruce Conklin, Assistant Professor of Medicine and Pharmacology, Gladstone Institutes, UCSF. Seminars in Clinical Research. 110B NURSES RESIDENCE. CONTACT DALE MILLER, 327-8411.

4:30 P.M. **Dissecting Hematopoietic Development and Disease Using the Zebrafish.** Leonard I. Zon, Associate Professor of Pediatrics, Children's Hospital, and Associate Investigator, HHMI. MSKCC President's Research Seminar. AUDITORIUM, ROCKEFELLER RESEARCH LABORATORIES, MSKCC, 430 EAST 67TH ST. TEA AT 4:00 P.M.

THURSDAY, NOVEMBER 16

12:00 P.M. **Regulation of HIV-1 Infection by β -chemokines.** Helena Schmidtmayerova, The Picower Institute for Medical Research. CFAR Seminar. SIXTH FLOOR CONFERENCE ROOM, ADARC, 455 FIRST AVE. CONTACT GARY GAILOR, 448-5163.

12:00 P.M. **The Syndrome of 5- α Reductase-2 Deficiency: Its Biological and Psychosexual Implications in Man.** Julianne Imperato-McGinley, Professor of Medicine and Chief, Division of Endocrinology, Diabetes and Metabolism, WMCCU. Endocrinology and Reproductive Biology Seminar. 301 WEISS.

3:00 P.M. **Genes at the Interface between Cardiovascular Disease and Diabetes.** Jerome I. Rotter, Director, Division of Medical Genetics, and Medical Genetics Chair, Board of Governors, Professor of Medicine, Pediatrics, and Human Genetics, Cedars-Sinai Medical Center, UCLA Medical Center. STARR CENTER FOR HUMAN GENETICS SEMINAR. 301 WEISS. CONTACT EMILY HUFFMAN, 327-7387.

3:00 P.M. **Sight Unseen: Action without Perception in the Human Visual System.** Mel Goodale, Professor of Psychology, U. of Western Ontario. Systems Neuroscience Seminar. 305 WEISS. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

4:00 P.M. **Involvement of Ceramide in the Molecular Pathway of Endothelial Cell Apoptosis.** Adriana Haimovitz-Friedman, Associate Attending Radiation Biologist, Dept. of Radiation Oncology, MSKCC. 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.

8:00 P.M. **Telomerase and the Consequences of Telomere Dysfunction.** Carol W. Greider, Professor, Dept. of Molecular Biology and Genetics, John Hopkins U. School of Medicine. Harvey Society Lecture. CASPARY AUDITORIUM.

The Arts and Other Events

FRIDAY, NOVEMBER 3

12:00 P.M. **Tri-institutional Noon Recitals.** Sergei Edelman, piano; Alissa Vaitsner, violin. Performing Bach-Busoni: *Chacona from the Partita for violin in D-minor*; Schumann: *Sonata No. 2 in D-minor*, Op. 121; Ravel: *Sonate in G-major for violin and piano*. CASPARY AUDITORIUM. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

FRIDAY, NOVEMBER 10

12:00 P.M. **Tri-institutional Noon Recitals.** Vienna Piano Trio. Performing Haydn: *Trio in D major*, Hob XV:24; Schumann: *Trio in G minor*, Op. 17; Beethoven: *Trio in E-flat minor*, Op. 70/2. CASPARY AUDITORIUM. OPEN TO RU/WMCCU/NYPH/MSKCC COMMUNITY AND GUESTS.

WEDNESDAY, NOVEMBER 15

8:00 P.M. **Peggy Rockefeller Concerts.** Vadim Gluzman, violin, with Angela Yoffe, piano. CASPARY AUDITORIUM. CONTACT JENNIFER GOLDSCHLAG, 327-8437.