Minutes of a Stated Meeting of the  
Senate of New York University  
December 6, 2007

A stated meeting of the Senate of New York University was held in Room 914 of the Kimmel Center for University Life at 2:00 p.m. on Thursday, December 6, 2007. The meeting was convened with Dr. Sexton in the chair.

Present in addition to the President were members of the Faculty Senators Council Anderson (for Hinojosa), Black, Cappell, David (for Bogart), Dickerman (for Thompson), Frommer, Gans (for Ronell), Ginsberg (for Simonoff), Goodman, Hammack, Hutchins, Kedem (for Mikhail), Landsberg, Lebowitz, Ling, Monaco (for Al-Askari), Moran, Raiken, Ramsey, Reiss, Rosenberg, Schacht, Simon, Sternhell (for Hendin), Tannenbaum, Vernillo, White, and Zwanziger; members of the Student Senators Council Alvarez, Cheatham, Chheda, Choo, Cyr, Dwork, Hirawat, Hong, Hwang (for Alli), Kaufman, Eugenia Lee, Justin Lee, Leinheiser, Levine, Modgil, Morgan, Patel, Peaden, and Tong; members of the Deans Council Bertolami, Blount-Lyon, Brabeck, Cooley, Covert-Vail (for Mandel), England, Foley, Kersh (for Schall), Lapiner, Scheeder (for Campbell), Sonntag (for Santirocco), Stimpson, and Wofford; members of the Administrative Management Council Butler (for Moppett), Cahill, DeSantis, Fauerbach, and Pender; and members of the University Administration Provost McLaughlin; Executive Vice President Alfano; Senior Vice President Berne; and Acting Secretary Chamberlin, constituting a quorum.
Approval of Minutes

The minutes of the stated meeting of the Senate held on November 1, 2007, were approved.

Report of the President

Dr. Sexton referred to a memorandum, which was available at each Senator's place and is attached to these minutes as Exhibit A, that outlines some of the collective achievements at the University since the Senate's last meeting. Dr. Sexton reported that former President Bill Clinton spoke at a luncheon given as part of the Global Colloquium of University Presidents held the previous week at the University. Dr. Sexton noted that three years ago, former United Nations Secretary General Kofi Annan had requested that the presidents of five American universities, among them NYU, join together to host an annual conference with twenty foreign universities to bring the academic world into the problems of the day. This year's topic was sustainability and global climate change. Dr. Sexton expressed his view that universities are trusted institutions to sound the clarion call on such important and timely issues. The next United Nations Framework Convention on Climate Change is scheduled to take place in Bali later this month.

Dr. Sexton reported that the 2007 NCAA Division III Men's and Women's Cross-Country Championships had been decided and that NYU had taken home the men's team crown. Dr. Sexton was pleased to point out that Division III ranks first in the nation, and ahead of the Ivy League, in terms of student athletes' grades and standardized test scores upon admission. Dr. Sexton also noted that the United States Environmental Protection Agency
had ranked NYU as the "greenest" college in the country in its annual College and University Green Power Challenge, which is a direct result of the University's having purchased more wind credits than any other university in the United States.

Dr. Sexton reported that he had led the NYU delegation to Abu Dhabi in mid-November to announce the agreement to open NYU-Abu Dhabi, the undergraduate branch campus of NYU in the United Arab Emirates. Dr. Sexton noted the high esteem he has for the representatives from Abu Dhabi who are involved in this historic collaboration and said that the Crown Prince's goal is to ensure that both New York University at Washington Square and NYU-Abu Dhabi will rank as two of the world's ten great research universities by 2020. Dr. Sexton reiterated his confidence that the University had found the right partner for its global initiative in the Middle East. Dr. Sexton noted that there had been a ceremonial exchange of gifts, including the gift of a rug to the University, which is the model for a much larger rug that will be installed in the largest mosque in the Gulf region.

Dr. Sexton noted that the arrangements for the integration of Polytechnic University into NYU were proceeding smoothly, and he expressed his gratitude to Provost David McLaughlin and Special Advisor to the President and Provost on Engineering Dianne Rekow for their efforts in facilitating the initiative. Dr. Sexton commented that he was increasingly optimistic about the University's proposed partnership with the American University of Paris.
Dr. Sexton discussed an article that had appeared in that day's *Washington Square News* ("WSN") regarding partnerships between private and public institutions of higher education. Dr. Sexton explained that he serves on the New York State Higher Education Commission, comprising top officials from private and public universities in New York, which was formed in May by Governor Spitzer to identify ways of improving higher education in New York. Dr. Sexton said that he sees an overall devaluation of research and higher education across the United States resulting in a flattening of resources for higher education. In addition, Dr. Sexton noted that New York State is projecting a $4 - 5 billion deficit in next year's budget that could have a negative impact on funding for Bundy Aid, the Tuition Assistance Program ("TAP"), and the Higher Education Opportunity Program ("HEOP"). Dr. Sexton noted that the WSN article attributed to him the point of view that funding for higher education should be spread less thinly and that the greater proportion of available money should go to private universities. Dr. Sexton expressed concern that remarks he made might have been misunderstood. He explained that he believes that private universities' excellence entitles them to a greater share of state resources and that state universities would reap greater benefits if they were to leverage their excellence with that of private universities.

Dr. Sexton reminded the Senate that an ad hoc committee had been formed in response to the mandate given to him by the Executive Committee of the University's Board of Trustees to engage in a series of conversations with the University community on the future of NYU. He said that the committee had been meeting regularly and had produced a document which had been reviewed by the Senate Academic Priorities Committee.
Dr. Sexton plans to circulate the document widely early next year prior to submission of the final report to the University's trustees sometime in March.

Dean for Science in the Faculty of Arts and Science Daniel Stein introduced the Carroll and Milton Petrie Professor and Chairperson of the Department of Biology Gloria Coruzzi, who gave a presentation on NYU's Center for Genomics and Systems Biology to be located at 12-16 Waverly Place. The field of genomics has emerged as one of the most important areas in the biological sciences, and the planned 62,000 square foot building will allow the Genomics Center to expand its partnerships with the American Museum of Natural History, the New York Botanical Gardens, and the Cold Springs Harbor Laboratory. In time, the Center will serve as a genomics center not only at the University, but also in New York City and the world. The Center will include seven stories of laboratory and meeting space and will be crowned by a 1,200 square foot greenhouse. Professor Coruzzi was joined by Associate Professor of Biology Fabio Piano and the Dorothy Schiff Professor of Genomics Michael Puruggan. Senior Vice President for Development and Alumni Relations Debra LaMorte concluded the presentation with the announcement that a "mini-campaign" to raise $40 - 50 million had been launched that included various naming opportunities for the facility. See Exhibit B for the entire slide presentation.

Upon motion duly made and seconded, the report of the President was approved.
Report of the Academic Affairs Committee

In Professor Hendin's absence, Professor Cappell reported that the Committee had sent a list of nominees for honorary degrees for consideration at this year's Commencement to the Academic Affairs Committee of the Board of Trustees. The list includes persons who have contributed to the creativity of Greenwich Village and the enrichment of the University community and its intellectual strength. The Committee is also in the process of planning its agenda for the spring term and is finalizing adjustments to the academic calendar.

Upon motion duly made and seconded, the report of the Academic Affairs Committee was approved.

Report of the Committee on Organization and Governance

In Ms. Moppett's absence, Professor Black reported that the Committee had met twice since the last Senate meeting. Vice President for Public Affairs John Beckman and Web Director Joel Leimer are scheduled to attend the next Committee meeting to address questions about the University's website and the creation of a University Senate website. Creation of such a website would increase communication across the University and support the University’s green initiatives.

The Committee continues to examine the function and structure of the Senate and to review the Senate Rules of Procedure and the University's Bylaws. The Committee is currently discussing the composition of the Senate relative to the administrative relocation of certain programs such as the College of Nursing and the General Studies Program and
the development of affiliated campuses in New York and abroad, as well as the establishment of an "Office of the University Senate."

Upon motion duly made and seconded, the report of the Committee on Organization and Governance was approved.

**Report of the Public Affairs Committee**

Professor Tannenbaum reported that the University was faced with the challenge of finding a new venue for the University's 2008 Commencement Exercises, in light of the fact that the last legal challenge to the renovation of Washington Square Park had been dismissed. The Parks Department is expected to begin the renovation as soon as possible. Professor Tannenbaum reminded the Senate that the Committee had recommended that a final decision on where to hold Commencement would be approved by the Senate Executive Committee and that this year's Commencement likely would take place in a major league sports stadium. Senior Vice President for Public Affairs Lynne Brown stressed the importance the administration is placing on gathering student input, especially from graduating seniors, for ideas on how to make this year's Commencement Exercises as memorable as possible given the fact that they will not be held in Washington Square Park. Professor Tannenbaum noted that the traditional Grad Alley festivities would continue to take place the evening prior to Commencement.

Dr. Brown noted that the University had begun to meet with representatives of the Parks Department about the renovation and construction phases of Washington Square Park and
the impact it will have on University buildings surrounding the perimeter of the University. Information will be put on the University’s website as soon as it is available.

Upon motion duly made and seconded, the report of the Public Affairs Committee was approved.

Council Reports

**Administrative Management Council.** Mr. Pender reported that the Council held a meeting on December 4 at which Dean Blount-Lyon presented an update on recommendations of the University Benefits Assessment Task Force. A draft of the Council's letter of recommendation to the Financial Affairs Committee has been distributed, and the Personnel and Benefits Committee plans to have a final draft for submission by the end of January. In support of the University's Green Action Plan, the Community Service Committee sponsored a second screening of the Academy Award winning documentary "An Inconvenient Truth" on November 14, which was followed by a question and answer session with Director of Energy and Sustainability Cecil Scheib and the Director of NYU's Environmental Studies Program and Associate Professor of Biology Tyler Volk. The annual Holiday Toy Drive is underway, and over 1,500 children of the Lower East Side are expected to attend the Ninth Precinct Community Council's Holiday Party on December 15.
Deans Council. Dean Brabeck reported that the Council is working to coordinate global initiatives in the individual Schools with the global network university and the University's plans concerning the Abu Dhabi initiative.

Student Senators Council. Mr. Lee reported that the Council was working on budget recommendations for submission to the Financial Affairs Committee and noted that the Council had approved a resolution requesting greater budget disclosure from the administration to the Financial Affairs Committee. The Council discussed the importance of getting feedback and receiving updates about resolutions from the appropriate Senate committees such as the Financial Affairs Committee, regarding the Council's resolution recommending that the University take steps to divest from target companies who directly or indirectly support the commission of genocide in Darfur, and from the Public Affairs Committee, regarding the University's ban on the sale of Coca-Cola products.

Faculty Senators Council. Professor Cappell reported that the Council continues to work on issues related to the Polytechnic initiative, including transitional arrangements concerning Polytechnic faculty in the areas of governance and representation. Discussions are underway to hold a joint reception for faculty from Polytechnic and NYU. The Council is also working on issues related to the University's global sites. The Council met with the Student Senators Council, and the Housing Committee held a meeting with Dr. Alfano. As similarly reported earlier by Mr. Pender, the Council also met with Dean Blount-Lyon concerning the recommendations of the University Benefits Assessment Task Force. The
Council continues to work on updating the Faculty Handbook. Professor Cappell noted that the Council also had passed a resolution calling for greater disclosure from the administration regarding budget issues. The Council is scheduled to meet with Dr. Sexton at its next meeting, scheduled to take place on December 13.

*     *     *

Dr. Sexton referred to the resolutions that had been passed by the Faculty Senators Council and the Student Senators Council regarding increased budget information from the administration to the Financial Affairs Committee. He said that he was in favor of creating the proper level of detail in the tools that are given to the Financial Affairs Committee and the constituent Councils in order that their input can be informed and meaningful. Dr. Sexton noted that Dr. Alfano is committed to ensuring that the constituent Councils receive the appropriate budget information they need to advise the Committee concerning its recommendations.

University Dialogue

President’s Question Time

Student Senators Council. Mr. Lee read the following question:

Although the NYU-Abu Dhabi endeavor is completely funded, it will reflect on NYU’s global presence and reputation. How do you plan to involve the Senate in the development of programs and specifically, would you be willing to discuss the budget for the important project to which our name will be attached? What will NYU-AD mean for students at the Washington Square campus at NYU? What new opportunities will there be as a result? How will
it affect the broad scope of the Study Abroad program for NYU students as a whole?

Dr. Sexton said that NYU-Abu Dhabi would have only a positive impact on the budget at NYU in Washington Square. He noted that every expense incurred in the service of NYU-Abu Dhabi is to be funded by the government of Abu Dhabi through its Executive Affairs Authority. In addition, Dr. Sexton anticipates that the Crown Prince eventually will decide to have the government of Abu Dhabi build a connection among each of the University's libraries at all of its global sites. Dr. Sexton said that plans were underway to establish an NYU-Abu Dhabi Institute at the Washington Square campus sometime in 2008 that would focus on issues relating to the Middle East. He anticipates that this will give the University an opportunity to build relationships with colleagues in educational institutions in the Middle East through visits by trustees, faculty, and students and help to create an academic presence there. Dr. Sexton said that all of these trips would be fully funded by the government of Abu Dhabi. Dr. Sexton noted that beginning in the fall of 2008 he would be traveling to Abu Dhabi every other week to teach his "United States Supreme Court and the Religion" course, while also teaching the course at Washington Square. The Crown Prince has said that the government of Abu Dhabi would be willing to fund an undergraduate student population of 2,000 and a graduate student population of 800 of the highest academic quality and that he looked forward to having students from the United States choose to study at NYU-Abu Dhabi for their entire college educations. The Crown Prince has also expressed a willingness to have the government fund an expansion of the faculty body at Washington Square to contribute rotating faculty members to teach at NYU-Abu Dhabi.
Dr. Sexton noted that the LL.M. program that is offered by the School of Law in Singapore had attracted 13 students (out of 40) from the United States in large part because the Singapore government is able to offer a better financial aid package than that offered at Washington Square, which relies heavily upon tuition. Dr. Sexton predicts that a similar situation could occur in Abu Dhabi. Dr. Sexton said that the academic development of NYU in Abu Dhabi would be driven by the University’s departments and schools. The administration is in the process of conceptualizing the details of that process, and various requests from faculty wishing to be involved in this process will be coordinated.

There being no further business, the meeting was adjourned at 3:55 p.m.

Leona S. Chamberlin  
Secretary
EXHIBIT A
UPDATES FROM PRESIDENT JOHN SEXTON
University Senate Meeting
December 6, 2007

Here are some recent news, notes and developments that may be of interest to the University Senate.

APPOINTMENTS

The New York Senate recently confirmed NYU Trustee Dale Hemmerdinger (WSC ’67) to serve as the new chairman of the Metropolitan Transportation Authority (MTA), with a term expiring in 2012. A leader in New York City real estate development, he has been a strong supporter of NYU schools, scholarships, and initiatives and chairs the Trustee Committee on Alumni Affairs and University Life.

Mary Schmidt Campbell, dean of the Tisch School of the Arts, was recently confirmed as chair of the New York State Council on the Arts by the New York State Senate. Nominated for the position in June by Governor Eliot Spitzer, she will continue to serve as dean of the Tisch School.

As Dean Campbell assumes her new post, she leaves the post of Associate Provost for the Arts, with our deep thanks for her outstanding service. Thomas Crow, who is the Rosalie Solow Professor of Modern Art at NYU’s Institute of Fine Arts, has accepted the additional responsibilities of Associate Provost for the Arts effective immediately.

EVENTS

Last week NYU hosted the third annual Global Colloquium of University Presidents. Over 50 university presidents and faculty members traveled to New York to discuss climate policy as well as the role of universities in sustainability and climate change. The colloquium is convened under the auspices of the United Nations Secretary-General, who attended several sessions, and sponsored by the presidents of NYU, Columbia, Yale, Princeton, and the University of Pennsylvania, and the president emeritus of Harvard. We were honored by a visit from former president Bill Clinton, who spoke about the challenges and opportunities for universities in this area.

For the third consecutive year, NYU hosted the finals of the prestigious Siemens Competition in Math, Science and Technology. Twenty high school students from around the country came to the Kimmel Center to present their research projects in their bid to win the top prize of $100,000. For the first time, female students comprised the majority of overall finalists and took home the top prizes in both the team and individual categories. NYU worked closely with the
event organizers, and I was pleased to be joined by NYU faculty members and admissions representatives in speaking to these talented students.

ACADEMIC INITIATIVES

NYU has a greater number of students participating in study abroad programs than any other U.S. college or university. According to a new study by the Institute of International Education (IIE), NYU had over 2,800 students in study overseas, followed by Michigan State University and the University of Texas at Austin. In addition, NYU attracts the third-greatest number of international students (5,827), behind the University of California and Columbia University. Just a few years ago, fewer than 10 percent of NYU’s students studied abroad; now one-third do so. In a few years, we expect that fully half of our students will make study abroad a part of their educational experience.

Official Opening of Campus in Abu Dhabi

I was honored to lead the NYU delegation to Abu Dhabi in mid-November to announce the agreement to open NYU-Abu Dhabi, an undergraduate branch campus of NYU in the United Arab Emirates. The delegation included NYU Trustee Joel Ehrenkranz, Vice Chancellor Mariët Westermann, Associate Vice Chancellor Hilary Ballon, Senior Vice President Jeannemarie Smith, Senior Vice President for Health Robert Berne, Vice Provost for Globalization and Multicultural Affairs Yaw Nyarko, and valued advisor Martin Edelman. Over the course of the several days, work on the development of the campus and the organizational structure of the initiative took place in various meetings and site visits.

Key events included a press conference where the Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi; Khaldoon Al Mubarak, Chairman of the Executive Affairs Authority; and I, among others, spoke about the goals and dreams of this unique joint venture. Our delegation also held a meeting with the Crown Prince of Abu Dhabi during which both NYU and the leader of Abu Dhabi reaffirmed the joint commitment to create a high quality, American-style campus in Abu Dhabi that attracts outstanding students and faculty from the region and the world. Both the Crown Prince and I pledged our personal commitment to this initiative, and we agreed to form the NYU-Abu Dhabi Institute that will develop and initiate various lectures, symposia, seminars, and conferences starting in the coming months, well before the opening of the campus. I am pleased to note that I plan to teach my course on the Supreme Court and Religion at the NYU-Abu Dhabi Institute in 2008.

AWARDS AND ACCOLADES

Faculty Honors

Six members of the NYU faculty recently received National Science Foundation (NSF) Career Awards. The winners are: Kent Kirshenbaum, assistant professor in the Department of Chemistry; Matthew Kleban, assistant professor in the Department of Physics; Scott Sheffield, assistant professor of mathematics at the Courant Institute; Mark Siegal; assistant professor in the Department of Biology; and Anindya Ghose and Panagiotis Ipeirotis, both assistant professors of information, operations, and management sciences at the Stern School of Business.
The Faculty Early Career Development Program is a foundation-wide activity that offers the NSF’s most prestigious awards in support of the early career development activities of those teacher-scholars who most effectively integrate research and education within the context of the mission of their organization.

Akshay Venkatesh, associate professor at the Courant Institute of Mathematical Sciences, has been named a recipient of a 2007 Packard Fellowship for Science and Engineering. Named one of 20 scientific researchers to receive a fellowship and an unrestricted research grant of $626,000 over five years, his scholarship focuses on mathematical objects, called L-functions, which encode the behavior of prime numbers.

The Association for Computing Machinery has named two professors from New York University’s Courant Institute of Mathematical Sciences as fellows for 2007. NYU’s Bhubaneswar Mishra, professor of computer science and mathematics, and Amir Pnueli, professor of computer science, were among the 38 new fellows named for their innovations in a range of computing disciplines that affect theory and practice, education and entertainment, and industry and commerce. Professors Mishra and Pnueli were recognized for symbolic computation, computational biology, and system verification.

Kyle Cranmer, assistant professor in the Department of Physics, has been awarded a Presidential Early Career Award for Scientists and Engineers (PECASE). The awards, announced by the White House, identify outstanding scientists and engineers who will broadly advance science and the missions important to federal agencies. The Awards are the highest honor bestowed by the U.S. government on outstanding scientists and engineers beginning their careers.

Terry Fulmer, the Erline Perkins McGriff Professor and dean of the College of Nursing at NYU was recently appointed as a trustee of Skidmore College. She joins a 35-member board, which guides the prestigious liberal arts college in Saratoga Springs, New York, from which Dean Fulmer received her bachelor’s degree in 1976. Dean Fulmer has also been named a “2007 Star” by New York Women’s Agenda, an award which honors outstanding women leaders who represent the spirit of New York.

**Student Honors**

Thomas T. Bringley, a doctoral candidate at the Courant Institute of Mathematical Sciences, recently received a Student Paper Prize from the Society for Industrial and Applied Mathematics for his paper on the computer simulation of particles suspended in a viscous fluid. The work was co-authored with NYU’s Charles S. Peskin, Silver Professor of Mathematics and Neural Science.

Joey Oved (CAS ’07), Athena Bochanis (CAS ’07), and Seth Paris (Steinhardt ’06), were recently awarded Fulbright U.S. Student Scholarships, joining over 1,300 U.S. citizens who travel abroad for the 2007-2008 academic year through the Fulbright U.S. Student Program. Mr. Oved is studying biology in Israel, while Mr. Paris is studying ethnomusicology in Ghana. Ms. Bochanis is teaching English in Germany. Also, Larnies Bowen (Gallatin ’06), has received one of the four inaugural Fulbright-mtvU Fellowships. Her project builds on her
undergraduate studies at Gallatin, where she designed an interdisciplinary major to examine national identity constructs in the Hispanophone Caribbean.

Three students have received National Science Foundation Graduate Research Fellowships, given to individuals in the early stages of their graduate studies and which includes a $40,500 annual award over three years. NYU recipients are Kristina Chodorow (CAS ’07), Elizabeth Wrigley-Field (CAS ’06), and Gabriela Richard, a doctoral student in the Steinhardt School.

The United Negro College Fund (UNCF) and Merck & Co. recently awarded biochemistry student Nicole Bowles (CAS ’08), with a UNCF/Merck Science Initiative fellowship. She was among 36 awardees who are promising African-American students pursuing careers in scientific research and selected from a nationwide pool of applicants.

Research Grants/Gifts

The Zegar Family Foundation pledged $5 million in support of the ongoing research needs of the Center for Genomics and Systems Biology. The gift will establish the Zegar Family Foundation Fund at the center. The fund will be used to provide support for the center's many research requirements, including seed money for research projects, research stipends, equipment and research materials, genomics-related seminars, and other programmatic needs.

The U.S. Department of Defense has awarded a team of nine scholars from six universities—including Andrew Kent from NYU’s Department of Physics and Nadrian Seeman from NYU’s Department of Chemistry—a grant of $6 million over five years to exploit precise biological assembly techniques for the study of quantum physics in nanoparticle arrays. This research will produce a fundamental understanding of quantum electronic systems, which could have an impact on the development and understanding of future electronics.

Arthur Zitrin (GSAS ’41, MED ’45) and Charlotte Marker Zitrin (WSC ’39, MED ’43) have pledged $2 million to NYU to establish the Arthur Zitrin Professorship in Bioethics, which is held by philosophy professor William Ruddick. Professor Ruddick also heads the new NYU Center for Bioethics, based in the Faculty of Arts and Science and with faculty affiliates throughout the university. Arthur Zitrin, a professor emeritus of psychiatry at the School of Medicine, served as an associate dean for student affairs at NYU and, for 15 years, was director of psychiatry at Bellevue Hospital.

Katherine Hutchinson, assistant professor at NYU’s College of Nursing, has been awarded a $1.9 million grant from the National Institutes of Health, National Institute of Nursing Research, to develop and test a mother-daughter HIV risk-reduction program in Jamaica over the course of four years. Her study builds on past research showing that mothers can act as a key influence on teen sexual risk behavior.

Karen D. King, associate professor of mathematics education at The Steinhardt School of Culture, Education, and Human Development, has been awarded a $1 million grant from the National Science Foundation for a mixed-methods research study of math instruction within a school district in New Jersey. The project seeks to move the discourse surrounding math
textbooks beyond what works and toward helping teachers effectively use high quality instructional materials.

A team of researchers from NYU's College of Dentistry (NYUCD) and School of Medicine are partnering with the University Medicine and Dentistry of New Jersey on a major National Institutes of Health grant to fund the most comprehensive study to date on the underlying causes of temporomandibular disorder, or TMD, a condition characterized by jaw and face pain that often radiates to the neck shoulders and affects up to 10 percent of adults. NYU's College of Dentistry, a subcontractor on the grant, received $740,000 to recruit the subjects for the study. The principal investigator for the NYUCD portion of the study is David Sirois, associate professor of oral and maxillofacial pathology, radiology and medicine and associate dean for graduate studies.

Sarah Fryer Leibowitz (WSC '64, GSAS '68) and Martin L. Leibowitz (CIMS '65, '69) made a gift endowing the Douglas H. and Katharine Fryer Thesis Fellowship Fund. Each year, the fund will make two $2,000 awards to graduate students in the psychology department for the best Ph.D. research proposals of the year, one in any area of psychology and the other specifically in organizational psychology.

In an effort to increase the number of highly qualified science and mathematics teachers in high-needs secondary schools across the United States, the Faculty of Arts and Science and the Steinhardt School of Culture, Education, and Human Development have announced a new scholarship program funded by the National Science Foundation. The NYU Noyce Scholarship Program will prepare 26 teachers of science and math over the course of four years.
EXHIBIT B
DNA is the genetic material of all species on earth.

The entire DNA content of an organism is the GENOME.
The Human Genome is sequenced in 2000
Phase II: Putting the pieces together

You can't do it by only studying the human genome
NYU Center for Genomics & Systems Biology:

Genomes of Model Organisms

<table>
<thead>
<tr>
<th>Year</th>
<th>Organism</th>
<th>Genes Genome</th>
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<tbody>
<tr>
<td>1996</td>
<td>Microbes</td>
<td>6,250</td>
</tr>
<tr>
<td>1998</td>
<td>C. elegans</td>
<td>18,425</td>
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<tr>
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<tr>
<td>2001</td>
<td>Fish</td>
<td>35,000</td>
</tr>
<tr>
<td>2003</td>
<td>Human</td>
<td>35,000</td>
</tr>
</tbody>
</table>

% Disease genes shared with humans:
- 20% in 1996
- 60% in 1998
- 58% in 1999
- 48% in 2000
- >75% in 2001
- 35,000 in 2003

NEW YORK UNIVERSITY CENTER FOR GENOMICS & SYSTEMS BIOLOGY
Integrating Genomic Information to discover gene function

DNA → Genome = 25,000 genes
RNA → Transcriptome = 25,000 RNAs
Protein → Proteome = 25,000 proteins
Mutants → Phenome = mutants in 25,000 gene

Only in the model organisms!

Systems Biology
Integrate genomic data into networks

NEW YORK UNIVERSITY CENTER FOR GENOMICS & SYSTEMS BIOLOGY
Mission: To investigate biological regulatory mechanisms and their evolution at the level of systems and networks.
Mission: To investigate biological regulatory mechanisms and their evolution at the level of systems and networks.
Faculty Engine: NYU Partner’s Plan

Model Invertebrate Genomics

Bioinformatics

Plant Genomics

Microbial Genomics

NEW YORK UNIVERSITY CENTER FOR GENOMICS & SYSTEMS BIOLOGY
NYU’s Center for Genomics and Systems Biology
Selected by NIH Genome Institute for
MOD ENCODE Project to Decode the Genome

Tuesday, May 15, 2007
N-400 2007-07

Researchers seek to understand every part of the genome needed for organisms to
develop and thrive

New York University biologist Fabio Piano, an associate professor at NYU’s Center for Comparative
Functional Genomics, was selected by National Human Genome Research Institute (NHGRI) to lead one

NYU Center for Genomics & Systems Biology

An open environment for interdisciplinary science

Planned completion Spring 2010

Research Space:
- Space for 14 PIs + Research Groups
  ~ 250 total researchers & students
  - Wet + informatics labs
  - Core Facilities
  - Greenhouse

Education Space:
- Total capacity of ~ 300 students.
  - Auditorium
  - Lecture & Computer classrooms
From Genomes to Phenotypes
Role of Actin gene in C. elegans embryos

Human

C. elegans

![Restriction Symbol]
Role of Actin gene in C. elegans embryos

Actin is required for cells to divide
How a genome builds an embryo: Potential applications

Conserved genes ~ 2,000

~ 3,000

Nematode genes ~ 300

Development and Cancer

Diversity and Parasite control
How a genome builds an embryo: Potential applications

Conserved genes: ~ 2,000

Collaborations: Courant

Development and Cancer

Collaborations: NYU-Med

~ 3,000

Nematode genes: ~ 300

Diversity and Parasite control

Collaborations: AMNH/CSHL
Integrating Genomic Information to discover gene function

DNA ➔ RNA ➔ Protein ➔ Mutants ➔ Genome = 25,000 genes ➔ Transcriptome = 25,000 RNAs ➔ Proteome = 25,000 proteins ➔ Phenome = mutants in 25,000 genes

Only in the model organisms!

Systems Biology
Integrate genomic data into networks
Use of networks to analyze and integrate genomic data to identify gene function on a genome-wide scale.

Gene 1
- Transcriptome (co-expression)
- Interactome (protein:protein)
- Phenome (phenotype)
- All of above connections

Gene 2

Networks Analysis reveals "Molecular Machines" required for embryogenesis in C. elegans.

Gunsalus et al., Nature 2005
NYU's Center for Genomics & Systems Biology Receives $4.4 Million NSF Grant to Seed New Research in Plant Systems Biology

Monday, Oct 15, 2007
N-106, 2007-08

New York University's Center for Genomics & Systems Biology has received a $4.4 million National Science Foundation (NSF) grant in which NYU researchers will seek to identify genes on a genome-wide scale that underlie crop traits selected when farmers began cultivating rice 10,000 years ago.

Dr. Michael Purugganan
Dorothy Schiff Professor of Genomics
&
Guggenheim Fellow
Plant genomics and understanding plant systems
Feeding the world: The genomics of crop diversity

- Use genomics to understand how plants evolve
- Identify genes and genomic networks
- Help preserve crop diversity
The genes that led to the origin of rice

*Oryza rufipogon*  
(wild ancestor)

*Oryza sativa*  
(domesticated species)

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reduced seed scattering, shorter plants, more grains, larger grains

selection for domestication genes
Genomics, sticky rice and knowing where to look
The Waxy gene determines "stickiness" in rice
The genomic ‘footprint’ of selection around Waxy
Genome scans for yield traits in rice
Localizing yield genes in the rice genome

**pss4.1**
(\(\sim 42\) genes)

**pl4.1**
(\(\sim 87\) genes)
Center for Genomics and Systems Biology
Campaign Goal: $42.5 Million

Naming Opportunities

(1) $25M
Building

3 Loft Lab Research Suites
8th Floor Genome Core Facility

(1) $5M
Core Organismal Growth Facilities

(2) $10M
Rooftop Greenhouse
Ground Floor Auditorium

(7) $2.5M
6 Bioinformatics Suites
Ground Floor Lobby

(4) $5M
3 Classrooms
Conference Room

(4) $1M

(Many) $500K

(Many) $25K to $100K