Major grant aids effort to sequence human genome

The Washington University School of Medicine is one of six recipients of major grants from the National Center for Human Genome Research (NCHGR) at the National Institutes of Health. The three-year award will allow the medical school's Genome Sequencing Center to systematically sequence parts of the human genome to uncover genes and other structures. The first year of funding will provide $6.7 million. Funding for each of the two subsequent years has not fully been determined but is likely to exceed that of the first year.

Determining the sequences and precise locations of all the human genes will provide an invaluable framework for current and future medical research. The knowledge will have a profound effect on the detection and treatment of disease," said the project's principal investigator, Robert H. Waterston, M.D., Ph.D., the James S. McDonnell Professor of Genetics, head of the Department of Genetics and director of the Genome Sequencing Center. "It also will provide an invaluable framework for exploring normal biological functions."

"Under Rob Waterston's outstanding leadership, the genome sequencing program at Washington University School of Medicine has become as productive as any in the world," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

"The next steps are set the pace for the nation's effort to define the complete sequence of the human genome in a timely and efficient fashion. This project will have a great positive impact on science and medicine."

The five other recipients are: Whitehead Institute for Biomedical Research in Cambridge, Mass. ($4.1 million); The Institute for Genomic Research in Rockville, Md. ($3.2 million); Stanford Institute for Genomic Research in Menlo Park, Calif. ($2.5 million); the Baylor College of Medicine in Houston ($1.3 million); and the University of Washington in Seattle ($1 million).

The human genome — all of the DNA in one complete set of chromosomes — is the blueprint that guides human development and medicine.

Richard K. Wilson

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Cynthia Weese, FAIA, believes the School of Architecture needs to be ahead of change

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Thurstone Carnival organizers want children to 'let their imaginations flow.'
A predisposition

Genetic factors may be key to symptoms of breast implant illness

Women with fibromyalgia were included in the study to determine whether women with implants are prone to develop the rheumatological disorder. Symptoms of fibromyalgia are similar to those experienced by women with implants who develop symptoms. "At first, we thought implants might trigger fibromyalgia," Young said.

Women with implants and those with fibromyalgia averaged 46 years of age; those in the healthy comparison group were slightly younger, averaging 37 years of age. Virtually all of the women in the study were white.

Genetic characteristics were determined by analyzing blood samples. The researchers zeroed in on a group of proteins encoded by a collection of genes called the major histocompatibility complex (MHC), which is known to play an important role in immune response. They wanted to find out whether the MHC molecules of symptomatic women with implants differed from those of women with implants who did not have symptoms.

The investigators used HLA (human leukocyte antigen) typing to analyze blood samples; organ transplant teams use the same procedure to assess genetic similarities between organ donors and recipients.

Molecule could be a marker

Women with implants and symptoms and women with fibromyalgia were significantly more likely to have an HLA molecule called DR-53. The molecule was present in 68 percent of symptomatic breast implant patients and 65 percent of fibromyalgia patients, compared with 35 percent of the asymptomatic implant patients. Fifty-two percent of the healthy women also had the DR-53 molecule, which is similar to its natural frequency among white women; DR molecules play a critical immunoregulatory role because they control the interactions among the immune system's T cells, B cells and antigen-presenting cells.

Young and his colleagues initially explored the idea that autoantibodies could be markers for women with implants and symptoms. Autoantibodies are antibodies that react against the body's own tissue, but could not find enough to make a case.

But Young cautioned that it is too early to tell what it means until we find out why these women are forming autoantibodies at such a high rate. Women with symptoms had had their implants for an average of 12 years, compared with asymptomatic women who had had their implants for an average of 10 years. So it's possible that the latter group may develop symptoms over time. Young and his co-workers now are trying to find out what is triggering the production of autoantibodies. If they are formed in response to silicone gel or one of its components, then the asymptomatic implant group also might be expected to have high frequencies. On the other hand, if the autoantibodies are somehow related to the presence of DR-53, fibromyalgia patients might be expected to have higher frequencies of B cell autoantibodies.

If the study's results are confirmed, DR-53 could be viewed as a marker for individuals who may be predisposed to develop an immune-mediated response or hypersensitivity reaction following silicone breast implantation.

Young and his colleagues initially suspected that women with implants and symptoms actually had fibromyalgia. But when they looked closer, they found that 42 percent of symptomatic women with implants formed antibodies against their own B cells. Only 2 percent of healthy women formed autoantibodies, compared with 14 percent of asymptomatic women with implants and 19 percent of fibromyalgia patients.

More striking, however, was the observation that 81 percent of the patients with implants who produced autoantibodies were DR-53 positive. This compares with 33 percent of fibromyalgia patients who were positive for both autoantibodies and DR-53.

"There's clearly a link between DR-53 and autoantibodies," Young said. "But we don't know what it means until we find out why these women are forming autoantibodies at such a high rate."

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Weese helps build architecture's momentum

When Cynthia Weese, FAIA, came to Washington University in 1993 to serve as dean of the School of Architecture, her connection to the University and to the city of St. Louis was already strong. She had served on the architecture board for the non-profit Michaelides' replacement. Michaelides, FAIA, announced in 1993 that he would retire the next year — after 20 years as dean and 30 years as a partner in his architectural firm. Weese, however, never thought the search would end at her door.

"I knew that being a dean was a very difficult job and a very complicated one, said Weese. "In the process of helping the search committee look for a new dean, I was very surprised. My response was that we needed to have a candidate and not just a replacement." So when Robert Virgil, D.B.A., chair of the search committee and then dean of the School of Business, asked her to consider becoming a candidate, she was "amazed and honored." After thinking it over and talking with her family, Weese was ready to consider the position. "When Bob first asked me to become a candidate, I was very surprised. My response was that we needed to have a larger discussion that was open to the public," she said. "With partners (in both life and career), this was a life-changing decision for both our families. After talking with them and the rest of my family, I saw that it was possible, and I was ready to be a candidate." Weese not only became a candidate but was selected as the new dean.

Because of her nearly 30 years as a practicing architect, Weese brings an important perspective to the school in 1962 and 1965, respectively. She had served on the school's curriculum committee and was dean of the school during its formative years. "I knew that being a dean was a very difficult job and a very complicated one," Weese said. "In the process of helping the search committee look for a new dean, I was very surprised. My response was that we needed to have a candidate and not just a replacement." So when Robert Virgil, D.B.A., chair of the search committee and then dean of the School of Business, asked her to consider becoming a candidate, she was "amazed and honored." After thinking it over and talking with her family, Weese was ready to consider the position. "When Bob first asked me to become a candidate, I was very surprised. My response was that we needed to have a larger discussion that was open to the public," she said. "With partners (in both life and career), this was a life-changing decision for both our families. After talking with them and the rest of my family, I saw that it was possible, and I was ready to be a candidate." Weese not only became a candidate but was selected as the new dean.

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Exhibitions


“M.A. Thesis Exhibition.” Opening reception: 5-7 p.m. April 19. Gallery of Art, Steinberg. Exhibition runs through May 3. Works are available for purchase. Hours: 10 a.m.-9 p.m. weekdays, 1-7 p.m. weekends—ends 4-3-76.

“The Stanley Ellis Show.” Through May 11. Special Collections, Olin Library. Level Five. Hours: 8:30 a.m.-5 p.m. weekdays—ends 4-3-76.

Films

All Filmboard movies cost $3 and are shown in Room 100 Brown Hall. For 24-hour hotline information, call 935-5983.

Thursday, April 18

7:30 p.m. French Film Series. “Madame Du,” (1933, B&W), directed by Marcel Carné, Room 3907 South Bldg. 935-6765.

Friday, April 19

7 and 9:30 p.m. Filmboard. “Smoke” (1995, B&W), starring William Hurt and Harvey Keitel. (See April 20, same time, and April 21 at 7 p.m.)


Monday, April 22

7:30 p.m. French Film Series. “La Double Vérité de Venise” (1991), with English subtitles. Room 219 South Ridgley Hall. 935-5116.

Tuesday, April 23

7:30 p.m. French Film Series. “Dreams” (1991), with English subtitles. Room 163 McDowell Hall. 935-7265.

Lectures

Thursday, April 18


1 p.m. Visiting Artist Seminar. “A Private Model of Botinisa Pigmentation” Daniel Grose, research assistant, prof. of ophthalmology and head of Pavilian Aud., Barnes Hospital. 362-3756.


4:30 p.m. Math colloquium. “Matricial Methods and Steppe Times in Harmonic Analysis,” Paul Lax, New York University. Room 100 Cupples Hall. 935-6766.


“Farmside Liebe und Risiko in Rede und Schrift,” Waltraut Walther, prof. of German, U. of Tbingen, Germany. Hurst Lounge, Room 201 Dukner Hall. 935-5106.

Friday, April 19

9:30 a.m. Cancer Grand Rounds. “Gene Targeting to Define Natural Functions of Cytosine to Linne Loci and Other Functions in Immune Responsiveness,” David D. Moore, prof. of medicine, genetics and of molecular microbiology and chief, Division of Allergy/Immunology, Clifton Aud., 4950 Children’s Place. 454-6128.


Monday, April 22


Tuesday, April 23


Wednesday, April 24


Thursday, April 25

8 a.m. Pediatric Grand Rounds. Topic to be announced. William P. Schmick, U. of Michigan, Ann Arbor. Room 162 McMullen Hall. 935-4446.

Music

Saturday, April 20

8 p.m. Opera. Jeremy Geraghty, graduate student in vocal performance, will perform in “La Bohème,” an opera act for male voice. Graham Chapel. 935-5581.

Sunday, April 21


Wednesday, April 24


Thursday, April 25

8 p.m. "CPE Bach Choral and Organ Works," features organists Man Yau, Scott Schoonover and William Partridge and Chorus director, by directed, by Stan Stewart, assoc. prof. of music. Bethel Evan Church, Big Bend and Forsyth bldvs. 935-5581.

Friday, April 26

2 p.m. Pre-university recital. Graham Chapel. 935-5581.
Symphony Orchestra, Chamber Choir collaborate on Orff’s “Carmina Burana”

Just as a chorus of medieval fair tales once gathered forth “a thousand joys,” so too will the Washington University Symphony Orchestra and the Chamber Choir on Sunday, April 21, as they unleash the musical gusto of Carl Orff’s “Carmina Burana.”

The event that extols the auditory glory of Orff’s popular 20th-century masterpiece is the second annual Chancellor’s Concert, presented by the Symphony Orchestra. The downtown event begins at 3 p.m. in the Louis Southern Symphony Community Music School of the corner of Delmar Boulevard and Tower Grove South.

In addition to “Carmina Burana,” the performance features司马林科特在B-Fat Majors, performed by Karl Di Bella, a graduate student in piano performance, and Laffal 935-2829. Gershwit. The concert is free and open to the public.

The collection of lavish, poetic musical stories set to Orff’s driving rhythms and powerful melodies is a pleasure for both performer and listener, said Dan Persregal, lecturer in classical and Near Eastern Studies and director of the orchestra.

“Much of the appeal comes from its rhythmic vitality,” said Persregal, “and it’s straightforward and highly accessible. And, of course, the texts are very intriguing— all about the pleasures of the flesh.”

The texts sing praise to such carnal delights as drinking, eating, money, gambling and the coming of spring when young and wondrous things turn to love. Orff’s work is based on poems discovered in the early 1800s at the monastery of Bawerk, near the Alps. Dating from the late 11th to the early 13th centuries, the bulk of the more than 200 poems were written in Latin, with some in German.

According to historians, most of the poems were penned and sung by troubadours and trouvères from the 12th century who were often touring across Europe and the Meditterranean— becoming known as troubadours, poet-singers, a good number poking fun at church doctrines and conventions.

When Orff came upon the poems in the 1930s, he conceived his work as a theatrical production. The first performance was held in Frankfurt, Germany, “Carmina Burana” has taken many forms, including a fully staged reading performed in the concert setting.

Staged readings were first performed at the University of Michigan, said John Stewart, associate professor of music and director of the choir and orchestra, Stewart noted.

Eric P. Newman Education Center.

“The collaboration is made possible this year because of the orchestra’s new, larger digs at the Louis Southern Symphony Community Music School at the corner of Delmar Boulevard and Trinity Avenue.

Founded in 1991 by Konrad Höfele, an internationally acclaimed choirmaster and conductor, the Camerata quickly established itself as one of the leading early music performance ensembles. Based in Amsterdam, the Netherlands, the quartet divides its time between touring and extensive recording.

Specializing in the music of Carl Philipp Emanuel Bach and his contemporaries, the Camerata re-created the spirit of the 18th century by strictly adhering to original scores and playing on traditional instruments of the period. Höfele believes all music is best performed by following the performance guidelines of the time of the composition. He believes much of the liveliness and expressiveness of 18th-century music has been lost.

The Camerata is in residence at Washington University for the month of April.

Tickets are available at the Edison Theatre box office (935-6453) or through MetroTix (534-1000).

The Camerata is the final event of a national conference titled “The Keyboards. Songs, Stories, Etc.,” which will take place on campus April 25-27. The conference features concerts featuring CPE. Bach works; lectures on the composer, his music and the historical keyboard languages; and the use of historical keyboard instruments; and an extensive display of early instruments.

Registration for the lectures begins at 8:30 a.m. April 26 at the West Campus Conference Center. For registration and cost information on the conference, call 935-5581.

Staged readings set for winners

The two winners of this year’s A.E. Hotchner Playwriting Competition will bring their works to life in a series of staged readings.

Aspiring playwrights Mark Ferguson, graduate student in playwriting and directing in Arts and Sciences, and Daniel Stewart, a junior majoring in English, in Arts and Sciences, will present their plays that won the annual competition open to all Washington University undergraduate and graduate students of one year.

The staged readings — performed by students in the Performing Arts Department in Arts and Sciences — will take place in the main auditorium of the Mallinckrodt Center. The staged readings of Ferguson’s “Departure” were performed at 8 p.m. April 25 and 27. The staged readings of Sullivan’s “Onions” will be performed at 8 p.m. April 27 and 28.

Ferguson’s “Departure” tells a surreal story of a Kentucky backwoods family on its journey from contestion and isolation to enlightenment and the discovery of its place in the universe. Sullivan’s “Onions on the Rocks” tells

For more information, call 935-5581.

**Keast Learner**

The elegant and authentic sounds of classical baroque music will burst to life in a concert by the Camerata of the 18th Century at 8 p.m. Sunday, April 21, in Edison Theatre.

The Camerata of the 18th Century makes its St. Louis premiere in a performance that concludes Edison’s 1995-96 “OVATIONS!” series. The Camerata is presented in association with the Midwest Historical Keyboard Society.

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Take Our Daughters to Work Day combines education, fun

People will have the option
to work on Thursday, April 25, and they
also may tour the campus, explore career
opportunities, hear from top female University
leaders and talk with students.

On Take Our Daughters to Work Day — the annual event sponsored by the Ms.
Education for Women in New York —
the University is having it all, and it isn't
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Obituaries

Irving Engel, professor in School of Architecture

Irving Engel, professor of architecture, died of a heart attack Wednesday, April 10, 1996, in his Olivette home. He was 63.

A memorial service was held Monday, April 15, in Graham Chapel.

Engel came to Washington University in 1970 as an assistant professor of architecture and rose to full professor rank in 1984. Before joining the university, he was an assistant professor of architecture at Miami University in Oxford, Ohio.

He earned a bachelor’s degree in architectural engineering in 1968 from Louisiana State University in Baton Rouge and a master’s degree in architectural science in 1969 from Cornell University.


He taught structural design and structural principles courses throughout his tenure here.

Constance E. Michaelides, FAIA, who served as dean of the School of Architecture from 1973 to 1993, noted a large number of students took classes taught by Engel.

“He was the only faculty member teaching structural, so every student who received a professional degree from us from 1970 on took Irv’s courses,” Michaelides said. “You can think of architecture in terms of continuity and change. Change is what all the architecture design studios are about. It’s the analytical approach to structures — which Irv taught — that provides the continuity to the curriculum. He was the anchor to the rational in the architecture curriculum.”

Cynthia Weene, FAIA, professor and current dean of the architecture school, said former students have commended Engel for his teaching. Weene added that Engel’s work and his teaching were known internation- ally as well.

Engel served on several University committees, including the Faculty Senate, Judiciary Board, the Senate Council, the University Library Council, the University Provost’s Advisory Council and the Tenure and Curriculum committees of the architecture school.

Engel is survived by his wife of 41 years, Margaret F. Engel of Olivette, and a brother.

In lieu of flowers, the family requests that memorial contributions be made to the Irving Engel Scholarship Fund. Washington University School of Architecture, Campus Box 1210, 1 Brookings Drive, St. Louis, Mo., 63130-4899.

Five competitions put engineering students to the test — from page 1

Speaking of

Victor L. T. Vine, Ph.D., professor of political science in Arts and Sciences, co-hosted a seminar on “Conflict Resolution and Ethnic Conflict in Central Eu-

From left, engineering student Paul Sherman, Professor Dan Kimura, Ph.D., students Ben Wirz and James Hasler, Assistant Professor Philip Bayly, Ph.D., and student Erik Vee admire the entries in a competition in which engineering students designed and built computer-controlled Lego cars.

have participated. The contestants were Renee Mere, only the second woman ever to enter the pageant, and Michael Dixon, Nick Nissang and Colin Thorne. The contestants sang, performed magic, juggled and did comedy skits.

The pageant was judged by a panel of five judges comprised of five judges comprised of five judges.

The 125th anniversary celebration will

John W. Olney, M.D., professor of neurology and neurological surgery, of anatomy and neuroscience. Goate received a 1996 Innovative Excellence in Engineering and Technology Award.

Five competitions put engineering students to the test — from page 1

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Five competitions put engineering students to the test — from page 1

Speaking of

Victor L. T. Vine, Ph.D., professor of political science in Arts and Sciences, co-hosted a seminar on “Conflict Resolution and Ethnic Conflict in Central Eu-

From left, engineering student Paul Sherman, Professor Dan Kimura, Ph.D., students Ben Wirz and James Hasler, Assistant Professor Philip Bayly, Ph.D., and student Erik Vee admire the entries in a competition in which engineering students designed and built computer-controlled Lego cars.

have participated. The contestants were Renee Mere, only the second woman ever to enter the pageant, and Michael Dixon, Nick Nissang and Colin Thorne. The contestants sang, performed magic, juggled and did comedy skits.

The pageant was judged by a panel of five judges comprised of five judges.

The 125th anniversary celebration will

A memorial service was held Monday, April 15, in Graham Chapel.

Engel came to Washington University in 1970 as an assistant professor of architecture and rose to full professor rank in 1984. Before joining the university, he was an assistant professor of architecture at Miami University in Oxford, Ohio.

He earned a bachelor’s degree in archi-
tectural engineering in 1968 from Louis-
iana State University in Baton Rouge and a master’s degree in architectural science in 1969 from Cornell University.


He taught structural design and structural principles courses throughout his tenure here.

Constance E. Michaelides, FAIA, who served as dean of the School of Architecture from 1973 to 1993, noted a large number of students took classes taught by Engel.

“He was the only faculty member teaching structural, so every student who received a professional degree from us from 1970 on took Irv’s courses,” Michaelides said. “You can think of architecture in terms of continuity and change. Change is what all the architecture design studios are about. It’s the analytical approach to structures — which Irv taught — that provides the continuity to the curriculum. He was the anchor to the rational in the architecture curriculum.”

Cynthia Weene, FAIA, professor and current dean of the architecture school, said former students have commended Engel for his teaching. Weene added that Engel’s work and his teaching were known internation- ally as well.

Engel served on several University committees, including the Faculty Senate, Judiciary Board, the Senate Council, the University Library Council, the University Provost’s Advisory Council and the Tenure and Curriculum committees of the architecture school.

Engel is survived by his wife of 41 years, Margaret F. Engel of Olivette, and a brother.

In lieu of flowers, the family requests that memorial contributions be made to the Irving Engel Scholarship Fund. Washington University School of Architecture, Campus Box 1210, 1 Brookings Drive, St. Louis, Mo., 63130-4899.
The following is a partial list of post-docs available on the Hilltop Campus. Information regarding these positions and other positions may be obtained in the Division of Medicinal Chemistry, Group III, freezer R102, North Washington Hall, by calling 989-2800.

**Administrative Aide 960119.** Performing Arts Department. Responsibilities: bachelor's degree preferred. Knowledge of PCs and Microsoft products. Proficiency with word processing and spreadsheets. Excellent organizational skills; experience with supervisory; detail-oriented; high energy; and work ethic; ability to work independently and manage own time. Duties: to type and file, keep office organized and current, and perform other routine office duties. Application required.

**Administrative Assistant 960216.** Accounting. Responsibilities: bachelor's degree preferred. Knowledge of PCs and Microsoft products. Proficiency with word processing and spreadsheets. Excellent organizational skills; experience with supervisory; detail-oriented; high energy; and work ethic; ability to work independently and manage own time. Duties: to type and file, keep office organized and current, and perform other routine office duties. Application required.

**Administrative Assistant 960217.** Accounting. Responsibilities: bachelor's degree preferred. Knowledge of PCs and Microsoft products. Proficiency with word processing and spreadsheets. Excellent organizational skills; experience with supervisory; detail-oriented; high energy; and work ethic; ability to work independently and manage own time. Duties: to type and file, keep office organized and current, and perform other routine office duties. Application required.

**Programmer Analyst II 960108-R.** Computing and Communications. Responsibilities: bachelor's degree with two years experience preferred, or five years experience in a similar setting. Responsibilities include developing and maintaining in-house software applications for clinical trials. Duties: 3D graphical visualization and image processing in a LINUX environment on silicon graphics workstations. Application required.