Working with the pros
Performing Arts students given once-in-a-lifetime opportunity

Shelley Winters hunched forward in her chair, glasses perched on the tip of her nose, concentrating on the student in front of her. Senior Sha-Bai Wu was sitting on the floor, looking off to the distance, reciting a script by William Mastrosimone from the play "The Wooolsheeter." She had full command of the words, and delivered them clearly and without hesitation, but Winters stopped her.

"Think about what the playwright is really saying in the play," said Winters. "How are you supposed to feel from his words? He's talking about the feeling of humiliation when people are treated cruelly. Have you ever felt treated that way?"

When Wu nodded yes, Winters responded.

"Good," she said. "Then think about that time. What were you wearing? Who else was in the room? Was it day or night? What color was the room? Were you eating or drinking anything? Think about how you felt just then."

We concentrates on all this, eyes closed, face blank. Then, when the memory is firmly in place, she begins the monologue again. The changes are subtle, a little more intensity and more believable. The monologue becomes somehow more real, more moving, with a shadow of humiliation when people are treated cruelly. Have you ever felt that way?"

"How are you supposed to feel from his words?" said Winters. "You have to think about all that to get into the right memory, it all comes much easier, it seems like old hat." When asked what happens if there is no experience that corresponds to the role, Burstyn laughs. "These teachers have years on us! I do feel kind of young in there sometimes."

We acknowledged sometimes having to rely on imagination rather than actual experience, but the Actors Studio teachers said that physicians can use the two markers to choose differentiation or programmed cell death. It appears that TRK coaxes the cells to choose differentiation or programmed cell death, and that normal neural cells may be weaned off chemotherapy earlier, he adds.

Brodie is hopeful that a diagnostic test for TRK will be available to all neuroblastoma patients. The long-term impact of these findings is yet to be determined, but Brodeur said he believes it could lead to new drugs that are much less toxic than current therapy. Currently, chemotherapy kills all multiplying cells, and that includes normal cells, he says. "Aiming drug therapy at the TRK-NF pathway should mitigate any deleterious effect on normal cells."
Researchers stalk ‘death genes’ for clues to disease severity

Your family has a history of sudden death. You might be carrying a gene that could stop your heart cold. Do you choose DNA screening to calculate your genetic liability? Or do you refuse testing, preferring not to know that you carry the gene? Most of us don’t face these choices. But they are hugely important decisions for people who may harbor genes that cause sudden death. Today, routine gene screening for such genes is not one of the procedures that will affect a person throughout his lifetime. Yet tests that find a disease gene tell only part of the story. How do you live with the knowledge that you may die suddenly from a genetic catastrophe? What kind of life will you have? How serious is your disease? Finding the gene doesn’t answer these questions, says Daniel P. Kelly, M.D., assistant professor of medicine at the School of Medicine. Genetic disease is a story that can have many different endings: A person carrying the gene for hypertrophic cardiomyopathy, for example, can develop a mild or moderate heart disease, or die suddenly from a more severe form. Patients with genetic disease tell their doctors they want more information. If a person chooses genetic testing, he or she may want additional information such as how bad the disease will be, Kelly says. “We don’t have those answers,” he says, “but genetic testing can help predict the severity of a person’s illness.” Kelly and his colleagues, Steven R. Bergmann, M.D., Ph.D., associate professor of medicine, and Burton E. Sobel, M.D., Tobias and Hortense Lewin Professor of Cardiovascular Diseases, are one step closer to that goal. They report in the March issue of the American Journal of Cardiology promising results in visualizing how a defective gene underlies the heart’s energy supply. The disease, long-chain acyl-CoA dehydrogenase deficiency, can cause sudden death by restricting the heart’s ability to turn long-chain fatty acids into energy. The disease, Kelly says, “can be without symptoms.”

Lipid screening helped explain why the children died. They lacked a sound copy of one of three enzymes that break down fatty acids. Each enzyme, such as acyl-CoA dehydrogenase (AD) named according to the size of fatty acid — short-chain, medium-chain or long-chain (LC) — digests. The three enzymes — SCD, MCD and LCAD — work within the body turning fatty acids into energy. A defect in one of these enzymes can be enough to kill a person. When the body runs low on sugar, it begins to burn the fats and fatty acids it has stored. People with such oxidation disorders cannot produce the energy needed by their brain and other main energy source. The enzyme shortage showed that MCAD deficiency was killing the children. A child born with MCAD deficiency is without symptoms. If MCAD deficiency is diagnosed, the child’s doctor and a genetic counselor advise the parents about diet, exercise and the dangers of fasting and low blood sugar. “If you take 10 kids with MCAD, two could die suddenly, two could have a very severe course, and the rest could be without symptoms.”

Daniel P. Kelly

... ‘our goal is to develop means of predicting the severity of a person’s illness.’

Unlike MCAD deficiency, where the majority of patients have a single common mutation with FHC, the disease’s variability is wide, and there are any of a variety of mutations. There are at least 15 known forms of the beta myosin heavy chain gene linked to FHC, Kelly says, making the job of predicting disease outcome difficult.

No matter how many tests doctors devise to detect these genes and themselves, predicting the severity of a genetic disease, the decision to use these tests still rests with the patient. In Kelly’s opinion, the role of geneticists, some want genetic testing and some do not. “Some patients cannot think and some cannot,” he says, “Others can figure out ahead of time if a child should play sports,” Kelly says. “Others are not ready for any testing. It’s a demoral of sorts because the disease is so horrible.”

Jim Eckerly

Richard W. Brand, B.D.S. (left), assistant dean for admissions and student affairs at the School of Medicine, guides local high school administrators and science and health program coordinators on a tour of the anatomy laboratory. As part of a community education effort in the Medical School Hospital are taking part in the Metro South Alliance, a school and community-based program in which 12 school districts south of Highway 44 learn about health care through guest speakers and other events, such as the tour of the anatomy lab facilities. School districts participating are: Pattonville, Rockwood, Mehville, Lindbergh, Affton, Ballas, Fox, Northwest, Oakville, Hancock, Kirkwood and the Special School District.

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Washington University in St. Louis

Photograph by John Skuse
Early offers students intellectual balance

As director of the African and Afro-American Studies Program, Gemini Early watches with pride as students overcome the struggles he went through 15 to 20 years before — finding a place as a black American.

"I went through a lot of those same struggles when I was their age," Early said. "Most black people have. And you make your peace, in one way or another, in dealing with a lot of those struggles. Each way an older black person makes his peace, it's a very valuable lesson for younger black people to learn."
**Films**

**Thursday, April 8**

7 p.m. School of Asia and Near Eastern Languages and Literatures Chinese Film Series presents "Red September" (English subtitles). Room 219 South Ridgely Hall.

**Friday, April 9**

7:30 p.m. Dept. of Asian and Near Eastern Languages and Literatures Japanese Film Series presents "Dreams of Hend and Kamata" (English subtitles). Room 219 South Ridgely Hall.

**April 10-17**

8 p.m. School of Art Presentations of CREOG in Ob/Gyn and director, Dept. of Maternal-Fetal Medicine, St. Louis Children's Hospital, Room 300 Cincinnati Aud., 8:00 S. Kingshighway.

3:00 p.m. School of Architecture Monday Night Lecture Series presents "La Corbusier, Photography, Colorization," Beatriz Colomina, asst. prof., WU Dept. of Architecture. Steinberg Hall Aud. For more info., call 935-8000.

**Tuesday, April 13**


12:30 p.m. Human Subjects Committee and Continuing Medical Education presents the School of Medicine Lunchtime Seminar, "Physician-assisted suicide," Marvin E. Newman, visiting prof., WU Dept. of Law. East Pavilion Aud., Barnes Hospital, One Barnes Hospital Plaza.

2:30 p.m. Dept. of Mathematics major oral with graduate student, WU. Room 199 Cupples I Hall.

3:00 p.m. Molecular Genetics Program thesis defense, "Structure of Paired and Halted Transcription Complexes Containing Eukaryotic RNA Pol II promoter." Donna Natalie Lee, graduate student, WU. Room 212 Natural Sciences Bldg.

4:00 p.m. Dept. of Anthropology Colloquium series, "Beginnings of Food Production in the Near East," Ole Bar-Ilan, Dept. of Anthropology. Room 149 McMillan Hall. (Coffee: 3:30 p.m.).

4:00 p.m. Dept. of Mathematics Ph.D. oral, "Extremal Problems Involving Logarithmic and Entropy," Richard Laugum, graduate student, WU. Room 199 Cupples I Hall.

4:00 p.m. European Studies Program Lecture, "The Rise of Europe - The Decline of Switzerland," Michael Böhler, prof. of German, U. of Zurich. Women's Bldg. Lounge.

4:00 p.m. Dept. of Molecular Microbiology seminar, "The Molecular and Genetic Analysis of the DCC Tumor Suppressor Gene," Karen O'Malley, U. of Virginia. Room 199 Cupples I Hall.


5:00 p.m. Division of Biology and Biomedical Sciences presents the Louis P. Markey Special Endowed Lecture in Pathology, "Insulin Regulation of GADPH Gene Transcription," Maria Alexander-Bridges, Harvard Medical School. Moore Aud., 4580 Scott Ave.

11:10 a.m. Neuroscience Program thesis defense, "The Orbital and Medial Prefrontal Cortex of the Macaque: Anatomical Parcellation and Evidence for Limbic, Sensory and Prefrontal Integration," S. Thomas O'Hearn, Ph.D. candidate student, WU. Room 928 McDonnell Medical Sciences Bldg.


5:00 p.m. Dept. of Germanic Languages and Literatures lecture, "The Importance of the 8th and 9th Century in the German Language and-Yri," Beatriz Colomina, asst. prof., Princeton U. Women's Bldg. Lounge.

5:00 p.m. Dept. of Germanic Languages and Literatures lecture, "Von Staemmen zu Vielfalt der Literatur im deutschsprachigen Raum," Michael Doebbel, prof. of German, U. of Zurich and visiting prof., Stanford U. Lounge, Room 113 Busch Hall.

**Saturday, April 10**

9:15 a.m. Pediatric Grand Rounds, "New Drugs on the Block. - The Mechanisms of Action of Anticonvulsants," Steven M. Rothman, A. Ernest and Jane G. Stein Professor, Department of Neurology, WU School of Medicine; and director, Division of Neurology, Barnes Hospital, and Prof. of Pediatrics, St. Louis Children's Hospital. Opal Aud., 4950 Children's Place.

11:00 a.m. Immunology Program thesis defense, "Studies in Intracellular Protein Targeting," Anthony Westbrook, graduate student, WU. Room 8841 Clinical Sciences Research Bldg.

Noon. Division of Biology and Biomedical Sciences presents the Louis P. Markey Special Endowed Lecture in Pathology, "Studies of the 95K Unconventional Myosin V," Robert M. Eisenberg, prof. of Pathology, WU. Room 212 Natural Sciences Bldg.

Noon. Dept. of Cell Biology and Physiology Seminar, "Clathrin Assembly Protein AP-180: An Analysis of Primary Structure and Function," Ernst Ungermann, assoc. prof. of Pathology, WU. Room 423 McDonnell Medical Sciences Bldg.

12:30 p.m. Department of Neurobiology seminar, "Family Ties: The D2-like Dopamine Receptors," Karen Korman, assoc. prof. of Anatomy and Neurobiology, WU School of Medicine. Room 928 McDonnell Medical Sciences Bldg.

12:30 p.m. Jewish and Near Eastern Studies Lecture, "Genetics and Genes of Israeli Jews," Prof. of Genetics, WU. Room 115 Busch Hall.


11:00 a.m. Neuroscience Program thesis defense, "The Oral and Medial Prefrontal Cortex of the Macaque: Anatomical Parcellation and Evidence for Limbic, Sensory and Prefrontal Integration," S. Thomas O'Hearn, Ph.D. candidate student, WU. Room 928 McDonnell Medical Sciences Bldg.

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11:00 a.m. Dept. of Neurobiology and Neurological Surgery Seminar, "Expression of the CREOG in Ob/Gyn and director, Dept. of Maternal-Fetal Medicine, St. Louis Children's Hospital Center, Jamaica, N.Y. Chapman Aud., 4950 Children's Place.

**Calendar guidelines**

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker or director, admittance, phone number, and any other information relevant. Call 935-8533.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Wednesday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, phone schedule, or any other information, please call 935-8533.

4 p.m. Dept. of Anatomy and Neurobiology presents "A Century of Tying Neurons Together: Remapping: Basic Elements of Neural Computation," Charles Anderson, prof., Division of General Surgery; research prof. of neurobiology and Professor Institute of Computational Medicine. (Continues April 17, 10 a.m., same time.) Room 928 McDonnell Medical Sciences Bldg.


4:30 p.m. Dept. of Music lecture with composer Willard Roosevelt. He will discuss his music. Alumni House, 6510 Wallace Circle.

Monday, April 12
8 p.m. WU English Club and International Writers Center present "Open Mike Night."
"Walt Whitman's "Song of Myself" as of a Four-Gqu". For info., call 935-5576.

Wednesday, April 14
8 p.m. Dept. of English presents "Readings From the Declining Race" with Rosa-Maria Arenas, Anne-Marie Cuace and Camella Ibel. Hunt Lounge, Room 201 Duncer Hall.

Saturday, April 17
9 a.m.-5:30 p.m. Committee on Comparative Literature, Dept. of Asian and Near Eastern Languages and Literatures, Dept. of English and Dept. of Romance Languages and Literatures present the "Comparative Literature Symposium on Autobiography," including several speakers. Coffee: 9:30 a.m., Room 311 Social Sciences and Business Bldg., U. of Missouri-St. Louis, 801 Natl. Bridgeway Road.

Imrat Khan to perform classical Indian music

Imrat Khan will perform a concert of classical Indian music at 7 p.m. April 17 in Edison Theatre. Khan, who is widely recognized as one of the premier musicians of Indian music, has performed and lectured throughout the world. He teaches classes through University College.

Khan comes from a family that traces its origin back through an unbroken line of premier musicians of Indian music, has been performed and lectured throughout the world. He teaches classes through University College.

The concert, which is sponsored by Asoka, the Indian student association, costs $15 for general public and $10 for students. For more information, call 935-1965 or 935-6543.

"SKIN" exhibit featured at 6 Floor Gallery

The exhibit includes prints, paintings and a sculpture. Senator John Glenn and Senator Hillary Clinton were quoted as saying, "The definition dictionary was used in our exhibit. It is the first expression of the word. Meanings vary from human skin, to a banana peel, to to a frost on a frozen lake." Exhibit hours are noon to 4 p.m. and 8 p.m. to midnight Saturday; noon to 5 p.m. Sundays. For information, call 621-1944.

Women's Tennis

Last Week: Washington 5, Washington 4; Washington 8, Augustana 1; Washington 5, Wheaton 3

This Week: Washington University, 3:30 p.m. Wednesday, April 7, WU's Taco Tennis Center

Current Record: 4-3

The Red and Green pushed their record above the .500 mark for the first time ever with a 7-0 victory over Williams College in a dual match and then taking top honors at the Third Annual Washington University Invitational. Number one singles player Rachel Margolis, Willamette,.., slammed a serve in Tuesday's match against Williams University. The serve, which threatened to enter Margolis' "zone," allowed her to continue to score points and the number of matches winning player her to 2-0.

"SKIN" exhibit featured at 6 Floor Gallery

School of Fine Arts students will display works that reflect their interpretation of the word "skin" during April 16 through 18 at the 6 Floor Gallery, 1310 Washington Ave. The exhibit, titled "SKIN," features the art work of seniors, graduate students and Arts and Sciences students. Coffee: 3:30 p.m., Room 245 Compton Hall.

Performance

Friday, April 8
8 p.m. Performing Arts Dept. presents "A Little Night Music" by Stephen Sondheim. (Sunday, April 10, 8 p.m.) Room 200. (Continues April 25, 2 p.m.) Cost: $7 (includes one ticket to Sunday performance); elementary school and college instructor may register for $40. For registration or more info., call 935-6781.

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Millbrook/Skinner lot to close during carnival

The carnival will result in a temporary loss of 600 parking spaces when the Millbrook and Skinner parking lots are closed April 13-19. In effect, off-street parking will be made available to members of the Washington University community in Forest Park, according to Gary L. Sparks, director of transportation and parking. Parking will be available on the north side of Grant Drive and both sides of Lagoon Drive, he said.

Sparks also encourages drivers with permits to use Washington's shuttle parking location at the West Campus on Forsyth and Jackson. The shuttle runs every 10 minutes from 6:40 a.m. to 6:50 p.m. Monday through Friday. Individuals also should consider walking, bicycling or carpooling to the University during that week, Sparks added.

Forty student groups are preparing for Thurtene Carnival — from page 1

Thurtene also is impressed by the students' efforts to educate the children so that they can function independently, she said.

Tom Stringer, a junior from St. Mary's, is "really excited about the carnival and will be attending the festivities during their spring break," Sullivan added. Of course, everyone gets excited about Thurtene Carnival — from the younger ones hoping to play with Fredbird and the Six Flaps Looney Tunes (TM) characters, to the Washington students building facades and rehearsing skits for "The Big Show."

"The excitement of the carnival is building across campus," said Chad Schlueter, Thurtene's internal business chair. "Everyone is working to make the carnival a place where people of all ages will continue to enjoy a comfortable and welcoming atmosphere — both for the younger and college students alike." Timothy M. Laczkowski, president of Thurtene, added that one of the group's major activities is building and community participation are already on track to make the carnival better than ever.

Approximately 40 student organizations, including the Student Senate, coordinate booths as well as constructing six facades. Matthew N. Milner, Thurtene's external chair, who created the carnival scene, is building food and game booths on campus. "Everyone is working to make the carnival a place where people of all ages will continue to enjoy a comfortable and welcoming atmosphere — both for the younger and college students alike," said Timothy M. Laczkowski, president of Thurtene. The group's activities are building facades and rehearsing skits for "The Big Show."

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Students should look beyond the classroom when visiting colleges

April is the most popular month for high school students and their parents to tour college campuses. At Washington University between 600 and 1,000 prospective students and parents visit the campus for April Welcome, a University-wide effort that offers admitted prospective students the opportunity to experience a typical day on campus. In the comments below, Chris Loving, associate director of residential life, advises students and parents to look beyond academics when touring a campus. Loving, who oversees Washington's highly regarded training program for resident advisers (RAs), says prospective students should look for schools that have strong programs both inside and outside the classroom. He regularly speaks to staff and faculty about how to implement student development programs.

While academic quality is an important guide to keep in mind when exploring universities, there are other factors that parents and students should consider when choosing a school, says Loving. He offers these tips to parents looking for schools that best suit their students:

• Look for diversity. "It can really enhance a student's college experience," says Loving. In particular, he suggests looking for schools where the student will be surrounded by students from ethnically, spiritually and geographically diverse backgrounds. He also notes that students who attend schools that are intentionally diverse are more likely to be successful in college.

• Look for a school that is concerned about their students. Loving, who has been the director of residence life at Wesleyan University's convocation held in Salina, Kan., says he has witnessed "The NIH's (National Institutes of Health) Violence Initiative and Modern Theories of Biological Violence" at the University of the American College of Surgeons.

• Look for an atmosphere that encourages activities. "You can get a narrow definition of what is considered to be a fun experience," he says. Loving encourages students to consider activities where students can have fun without drinking or drugs. He also recommends visiting the community hall. The RA is often the first person a student encounters when entering a dormitory. "The key is getting a total education," says Loving. In particular, he encourages parents to consider when choosing a school, says Loving. He offers these tips to parents looking for schools that best suit their students:

• Look for diversity. "It can really enhance a student's college experience," says Loving. In particular, he suggests looking for schools where the student will be surrounded by students from ethnically, spiritually and geographically diverse backgrounds. He also notes that students who attend schools that are intentionally diverse are more likely to be successful in college.

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Hilltop Campus
The following is a list of positions available on the Hilltop Campus: Information regarding other positions may be obtained in the Office of Human Resources. From 8:30 a.m. to 4:30 p.m., call 935-5990.

Library Assistant
930517. School of Business. Requirements: Two years of college, bachelor's degree preferred, and ability to interact well with library users; ability to explain and interpret library policies. To apply, work independently with minimal supervision, typing 35 wpm with accuracy. Clerical tests and three letters of recommendation required.

Benefits Accounting Clerk III
930518. Accounting Services. Requirements: High school graduate; one year benefits accounting experience; six semester hours of accounting and at least six semester hours in business or high-level service, industry or technical training. To apply, Accounting Clerk II at Washington University, plus three semester hours of accounting, with payroll typing 35 wpm with accuracy. Clerical tests and three letters of recommendation required.

Coordinator
930162. Alumni and Development Programs. Requirements: Bachelor's degree; excellent verbal, written, and interpersonal skills; self-motivated with attention to detail; ability to pleasantly overcome objections and be effectively persuasive with prospects; able to work effectively with volunteers, donors and prospects, and University staff; able to deal with multiple priorities with maximum supervision. Knowledge of University systems and personnel helpful; minimum of five years experience in university or high-level service; industry or business setting, familiarity with word processing techniques, ability to analyze and condense confidential information on major donors, research and/or academic projects; ability to write and produce correspondence; typing 50 wpm preferred. Clerical tests and three letters of recommendation required.

Editorial Assistant
930164. alchemy. Requirements: Bachelor's degree, preferably in anthropology with courses in anthropology, editorial and office management experience essential. The editorial assistant should be familiar with facsimile machines and photocopiers; typing with accuracy required. Clerical tests and three letters of recommendation required.

Department Secretary
930177. Alumni and Development. Requirements: Three years general office experience; typing 50 wpm with accuracy; word processing experience; ability to deal with multiple priorities; special secretarial and administrative training; ability to work well with people; exceptional organizational abilities. Clerical tests and three letters of recommendation required.

Student Records Clerk
930179. University Registrar's Office. Requirements: Some college or other related experience; strong capacity to use on-line data bases and library-related sources of information; typing 40 wpm with accuracy; proof-reading skills; capacity to conduct and keep track of several jobs at once; a file for detail; good oral and written English skills; professional telephone skills. Clerical tests and three letters of recommendation required.

Medical Campuses

Medical Transcriptionist
930552-R. Psychiatry. Requirements: High school graduate/equivalent; some business or technical knowledge preferred; wordPerfect, 70 wpm; knowledge of medical terminology.

Medical Secretary I
930573-R. Otorhinolaryngology. Schedule: Part-time, 22.5 hours a week — usually Tuesdays, Wednesdays and Thursdays, with up to five times a week. Requirements: High school graduate/equivalent; prior experience in a medical setting dealing with the public; good communication and telephone skills; experience with WordPerfect, typing 60 wpm; knowledge of medical terminology and medical transcription.

Data Assistant
930641-R. Allergy and Immunology. Schedule: Full-time, 42 hours a week. Requirements: Strong computer and word processing skills; typing 40 wpm; accuracy; word processing experience; knowledge of medical terminology. Must have Ph.D. or M.D. and be affiliated with Actors Studio, Henry Wedgeworth. Wedgeworth was at Washington University "will be the top down, but we should have the will to see the world that everyone else sees," he said. "We should be affiliated with Actors Studio, Henry Schwyzer has been the world of medical research, but we see it differently. We want to bring people to the world of medical research, and Henry's vision, this program will definitively surpass that of Yale." —Debby Aronson

Goodwill pervades entire program — from page 1
Shelley Winters correspond, then they will just select a different play.

The first teacher to arrive was Ernie Martin, head of the Actors Studio West program based in Los Angeles. He also has his own Los Angeles-based studio and is the husband of television actress Ann Wedgeworth. Martin was at Washington University teaching from Feb. 15 through March 5.

In one class, Martin had the students read dialogues from previously chosen scripts. "We're not afraid to use our imagination," he told the students. "Don't let the script control you. Say something, then look for your partner and say it the same way. This is your next choice. Play opposite each other, bow opposite each other."