Synthetic molecule causes cancer cells to self-destruct

By James E. Kloeppel
News Bureau Staff Writer

Scientists have found a way to trick cancer cells into committing suicide. The novel technique potentially offers an effective method of providing personalized anti-cancer therapy.

Most living cells contain a protein called procaspase-3, which, when activated, changes into the executioner enzyme caspase-3 and initiates programmed cell death, called apoptosis. In cancer cells, however, the signaling pathway to procaspase-3 is broken. As a result, cancer cells escape destruction and grow into tumors.

"We have identified a small, synthetic compound that directly activates procaspase-3 and induces apoptosis," said Paul J. Hergenrother, a UI professor of chemistry and corresponding author of a paper to be posted online this week ahead of regular publication by the journal Nature Chemical Biology. "By bypassing the broken pathway, we can use the cells’ own machinery to destroy themselves."

To find the compound, called procaspase activating compound one (PAC-1), Hergenrother, with colleagues at the UI Seoul National University, and the National Center for Toxicological Research, screened more than 20,000 structurally diverse compounds for the ability to change procaspase-3 into caspase-3.

The researchers tested the compound’s efficacy in cell cultures and in three mouse models of cancer. The testing was performed in collaboration with William Heftiesh, a UI professor of food science and human nutrition, and Myung-Haing Cho at Seoul National University. The researchers also showed that PAC-1 killed cancer cells in 23 tumors obtained from a laboratory mouse.

"This finding, if correct, would change the game for cancer patients,” said Hergenrother. "Instead of bypassing the broken pathway, we can use the cell’s own machinery to destroy itself."

Playing ball

A new study by Dan Bernhardt, an Illinois professor of economics, and co-researcher at the University of Maryland, concludes that the statistical anomalies identified by a previous point-shaving study “are intrinsic to the game itself and are not indicative of an epidemic of gambling-related corruption” in college basketball.

Play ball!

By Mark Reutter
News Bureau Staff Writer

A UI economist disputes a widely publicized academic study that claimed to find statistical evidence of point shaving among college basketball teams that are strongly favored by Las Vegas bookmakers.

Dan Bernhardt, an Illinois professor of economics, and co-researcher Steven Heston, a professor of finance at the University of Pennsylvania, received widespread media attention last spring when his “Point Shaving: Corruption in College Basketball” appeared in the American Economic Review.

Using a sample of 44,120 NCAA Division I basketball games between 1989 and 2005, Wolters documented that a team favored by 14 points was about 6 percent more likely to win by fewer points than to win by more points. Wolters concluded that strong teams missed the spread too often to be accounted for by chance.

"This finding, if correct, would mean either that the very best NCAA teams shaved points, for they comprised the bulk of the strong favorites, or else that a really high percentage of college players occasionally engaged in criminal activity by missing a basket or two to blow the spread without blowing the game," Bernhardt said in an interview.

"Either possibility would indicate remarkable levels of criminal activity and would call for radical policy reform and policing in college sports," Bernhardt said.

Bernhardt and Heston, however, wondered whether the patterns discovered by Wolters were due to player corruption or the nature of the game itself.

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Governor funds stem cell research grants

By Melissa Mitchell

Urbana, Ill. - The University of Illinois at Urbana-Champaign received $5.8 million to provide funding for a new team of researchers to study one of the world's most pressing issues: stem cell research.

The research will be part of a competitive research program funded by the National Science Foundation. Each program is designed to advance the understanding of fundamental biological and social issues, as well as address scientific and societal challenges.

The program is aimed at engaging the campus, community and state policymakers in discussions about the benefits and risks of stem cell research.

According to Dr. Jennifer E. Doudna, a professor of molecular and cellular biology at the University of Illinois, this program will provide a unique opportunity for researchers to collaborate and share ideas.

"The program is designed to bring together researchers from diverse fields, including biology, chemistry, physics, and social sciences, to work on a common goal," said Doudna.

"This is an exciting opportunity for our team to make significant contributions to the understanding of stem cell biology and the development of new therapies," she added.

The research team will include scientists from the University of Illinois and other institutions across the country. The team is led by Dr. Jennifer Doudna, who is a professor of molecular and cellular biology at the University of Illinois.

The funding will support research in several areas, including the development of new therapies for diseases such as diabetes, cancer, and Alzheimer's disease. The research will also focus on understanding the molecular mechanisms of stem cell differentiation and how these processes can be manipulated to generate new cell types.

The funding will also support outreach and education initiatives, such as public lectures and workshops, to increase awareness of stem cell research and its potential applications.

"We are excited about the opportunity to collaborate with other scientists and to contribute to the ongoing national debate about the ethical and social implications of stem cell research," said Dr. Doudna.

"This program will provide a unique platform for us to share our findings and to work towards a greater understanding of the potential benefits and risks of stem cell research."
UI expert hopeful about New Orleans disaster recovery plan

By Sharilyn Forgett

A platform of information about the UO’s Urbana campus is available on the World Wide Web for people who take the time to surf for it. But the Office of Public Affairs is offering a new service that provides an easier way for people to keep up-to-date with Illinois. Whether people want to know about the hottest research, upcoming goings-on for Illinois alumni, the weather for the day, said Jim Wilson, director of Special Projects for Public Affairs. “It’s overalling the people that are visiting UI Now, although not that many people know about it yet,” Jim Wilson said. As Wilson noted, UI Now also provides an organizational structure for many of the RSS feeds that from 300 media outlets – such as The New York Times and Fox News – and asked them if we pulled our campus news into one place using RSS feeds, would they be interested in this service?” Jim Wilson said. “Half of them responded, 75 of whom said ‘What’s RSS’ and the other 75 of whom said ‘That would be fantastic.’” “How far will the $3.5 million go? How long will this really last?” Before anyone can arrive close to that answer, Olshansky said, all parties at the planning table must first be prepared to do even more hard work – “to be vigilant at monitoring and strengthening … making sure the key elements of the plan are in place: transparency, openness in participa- tion, and communication.” And he added, “the Community Support Organization – which doesn’t appear to exist yet – will be critical in its policy role.” The real route home to a new New Orleans is to have plenty of challenges in the way. Nothing is perfect. The voice that a lot of people have said to me, ‘That’s perfectly designed to accomplish what it was originally intended to accomplish.’ Nothing is perfect. That’s perfectly designed to accomplish what it was originally intended to accomplish. "Through a complex arrangement of public and private institutions in Baton Rouge and New Orleans, all the key players – major and private institutions in Baton Rouge, with something that is perfectly designed to mesh with the state’s ‘Road Home’ money," Olshansky said. "Now, suddenly, in an amazing confluence of events," leading to the announcement back in as an important player in city council, planning commission and state – agreed to participate jointly in a planning effort, in addition to their other obligations. "It has taken a little longer than I would have liked and expected, but they’re coming up with something that is perfectly designed to accomplish what it was originally intended to accomplish. Nothing is perfect. There are problems could purportedly be solved in an easier way for people to keep up-to-date with Illinois. Whether people want to know about the hottest research, upcoming goings-on for Illinois alumni, the weather for the day, said Jim Wilson, director of Special Projects for Public Affairs. “It’s overalling the people that are visiting UI Now, although not that many people know about it yet,” Jim Wilson said. As Wilson noted, UI Now also provides an organizational structure for many of the RSS feeds that from 300 media outlets – such as The New York Times and Fox News – and asked them if we pulled our campus news into one place using RSS feeds, would they be interested in this service?” Jim Wilson said. “Half of them responded, 75 of whom said ‘What’s RSS’ and the other 75 of whom said ‘That would be fantastic.’” “How far will the $3.5 million go? How long will this really last?” Before anyone can arrive close to that answer, Olshansky said, all parties at the planning table must first be prepared to do even more hard work – “to be vigilant at monitoring and strengthening … making sure the key elements of the plan are in place: transparency, openness in participation, and communication.” And he added, “the Community Support Organization – which doesn’t appear to exist yet – will be critical in its policy role.” The real route home to a new New Orleans is to have plenty of challenges in the way. Nothing is perfect. The voice that a lot of people have said to me, ‘That’s perfectly designed to accomplish what it was originally intended to accomplish. Nothing is perfect." Through a complex arrangement of public and private institutions in Baton Rouge and New Orleans, all the key players – major and private institutions in Baton Rouge, with something that is perfectly designed to mesh with the state’s ‘Road Home’ money," Olshansky said. "Now, suddenly, in an amazing confluence of events," leading to the announcement back in as an important player in city council, planning commission and state – agreed to participate jointly in a planning effort, in addition to their other obligations. "It has taken a little longer than I would have liked and expected, but they’re coming up with something that is perfectly designed to accomplish what it was originally intended to accomplish. Nothing is perfect.

UI Now offers Web buffet of Illinois news and information

UI expert hopeful about New Orleans disaster recovery plan

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Lightning-fast jaws Using a high-speed imaging system capable of taking up to 250,000 frames per second, the researchers report, the mandibles close so quickly, a complete analysis of jaw movement had not been performed before. The researchers used a high-speed imaging system capable of taking up to 250,000 frames per second. The authors wrote, "In other words, "spend some time in these online spaces, such as those found in MMOs, should also count as third places for informal social interaction, "Asheron’s Call I and II” and “Lineage II” represent “a fairly mainstream portion of the fantasy-based MMO market,” according to the authors, where rewarding players for their achievements and the formation of long-term player groups or "guilds" is part of the game. Game play in MMOs is not a "single solitary interaction between an individual and a technology," the researchers wrote, "but rather, is more akin to playing five-person poker in a neighborhood tavern that is accessible only to five-person parties." Steinkuehler and Williams also found that participation in such virtual third places can lead to strong friendships. That kind of social bonding—creating bonds with people one doesn’t always lead to strong friendships. That kind of social bonding—creating bonds with people one doesn’t always lead to strong friendships. That kind of social bonding—creating bonds with people one doesn’t always lead to strong friendships.

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Faculty artwork on display through Sept. 24

Unique and thought-provoking artwork is a staple of the annual Faculty Art Exhibition, and this year’s event – on view through Sept. 24 at the Krannert Art Museum – is no exception. One of the nation’s oldest recurring faculty exhibitions, the show provides an opportunity for professors in the School of Art and Design to share their most recent work with their students as well as with members of the campus and local communities. This year’s exhibition includes paintings, drawings, photography, video, glass, metals, mixed media and graphic design.

NEW faces 2006

JOSE ANTONIO CHEIBUB, associate professor of political science and Brackenblein Scholar of Political Economy and Public Policy, College of Liberal Arts and Sciences

Education: Ph.D. (political science), University of Chicago; M.A. (political science), Institute of Academic Research, Rio de Janeiro; B.A. (history), Universidade Federal de Minas Gerais, Rio de Janeiro.

Teaching at Illinois: During the upcoming academic year, Cheibub will teach P305, “ Democracy, Dictatorship, and Plutocracy 540,” “ Topics in Comparative Politics.”

Research: “Cheibub’s body of scholarly work has developed steadily by consistently addressing big questions central to the study of comparative politics,” wrote Paul Milgrom, interim department head of political science. “The hallmark of his work is engaging the assumptions and arguments of existing literature with a metzical, systematic, and often elegant testing of the most and sometimes knock arguments.” Cheibub’s research interests center around the relationship between democracy and economic development, and appropriate institutional choices in the construction of sustainable democracies. Cheibub is the author of numerous articles, book chapters and the books “Presidencialism, Parliamentarianism and Democracy,” (Cambridge University Press, 2003) and “ and Democracy, and Development,” (Cambridge University Press, 2004), which is a “must read” for social scientists seeking to understand the connections between governmental structures, economic performance and the sustainability of democracy,” Daniel W click.

The book won the American Political Science Association’s 2002 Woodrow Wilson Foundation Award for the best book published in the U.S. on government, politics or international relations.

JAN EKERT, professor and head of Dance College of Fine and Applied Arts

Education: B.S.A. (dance), The University of Utah, Salt Lake City.

Teaching at Illinois: Fall 2005, E kert will teach “Beginning Modern Dance Technique for Majors” and will be guest in improvisation and composition courses for both undergraduate majors and minors in modern dance and dance from the National Institutes of Health. Fewer than percent of NIH-funded ci- ence receive MERIT awards, which are given to researchers with a track record of significant excellence and productivity during the previous 10 years.

Peggy Miller, a professor of psychology and of speech communication, has been appointed a fellow at the Beckman Institute for Advanced Study at Harvard University for the 2006-2007 academic year, housing her for her research on the calibration of children’s self-evaluation through self-enhancement practices in preschool-dis-.”

Andrzej Wawrziszewski, professor of chemis- two years to the person judged to have made the most significant contribu- to electrochemistry in recent years.

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Edward W. Congleton, 78, died Aug. 31 at Carle Foundation Hospital, Urbana. Congleton was an electrologist for the UI from 1967 to 1977. Memorial plans are being arranged by the Carle Foundation Hospital.

Helen Elizabeth McMorris, 95, died Aug. 29 at Brookstone Estates in Rantoul. McMorris worked as a secretary to the chief of police in Urbana from 1946 to 1956. A memorial service will be held at Martyrs Catholic Church, 201 E. Van Allen St., Tuscola, IL 61953. Neef Memorial Mortuary is handling arrangements.

Gwenатель Stanley Chodakowski, 80, died Aug. 11 in Vienna, Fla. Chodakowski was a professor of electrical engineering at the UI from 1964 to 1998. A memorial mass will be held at St. Mary’s Church, 2314 SW 19th St., West Palm Beach, Florida. The Rev. John J. Ramie, OFM, will celebrate the service. Donations may be made to St. Mary’s Church.

Shirley A. Lapey, 70, died Aug. 21 at her home in Tuscola. Lapey was a former secretary for the UI Extension. Memorial services will be held at St. John’s Lutheran Church, 801 E. Illinois St., Peoria, Ill. 61602.

Elisabeth "Lilly" Newton, 85, of the Carle Arboretum, Savoy. Newton was a professor of farm management-agricultural economics at the UI for 25 years, retiring in 1988 as professor emeritus. She also was head of the department from 1971 to 1972. Memori- als to American Heart Association, Illinois State University Alumni Association, 300 W. New Indian Trail Drive, Bloomington, IL 61701; or The Association for Individual Development, 1209 W. First Street, Urbana, IL 61802.

Jane L. Wills, 90, a lifelong resident of Urbana, died Aug. 14 at the Carle Foundation Hospital, Urbana. Wills was an electrologist at the UI for 35 years. Memorial services will be held at the UI Methodist Church, 2201 CS 900 East, Champaign, IL 61822, or the Fairmount Cemetery, P.O. Box 321, Champaign, IL 61821-0321.

Catherine E. Pekny, 91, died Aug. 21 in Columbia, S.C. Pekny worked as a staff assistant from 1961 to 1972 at the UI, where she designed the University Band Building and served as an architectural liaison between the university and external architec- tural firms. Memorial: St. John’s Episcopal Church in Columbia.

Ouida C. Pittman, 78, died Aug. 25 at motivor Covenalt Medical Center, Urbana. Pittman worked at Willoward from 1946 to 1982; Memorial: Toledo United Methodist Church.

Maryona Skromski, 88, retired in 1988 as a librarian at the University of Illinois at Urbana-Champaign. Memorial: At the discretion of the family.

Janet C. Macintire, 80, died July 17 at Brookstone Estates in Rantoul. Macintire worked as a secretary to the chief of police in Urbana from 1946 to 1956. Memorial: To Trustees of the Mount Vernon United Methodist Church.

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"Perhaps it is not that contemporary communities are alike in this way, but that the contemporary community is not like an 'inorganic' community," wrote Williams. "For that reason, online spaces could be added. A $75 rate is available for college students. The conference will be held on the Web site, www.reec.uiuc.edu/RBPConf/index.html for more information, including schedule of events, registration and a little about the keynote speaker. The keynote speaker will sign copies of the book "On This Island: An Artis- tical Journey to Africa and the West Indies" by the author of the 1979 bestseller "Gödel, Escher, Bach: an Eternal Golden Braid," Douglas Hofstadter.

Douglas Hofstadter will be the keynote speaker at a conference sponsored by UI Extension and UI Digital Media and the Illinois Center for International Business Education and Research. The conference, "Russia: The Cross-Cultural Viewpoint," will be Sept. 12-15. For further information, please contact either the Illinois Center for International Business Education and Research or UI Extension.

The keynote speakers will be William Browder, founder of the investment firm Hermitage Capital Management and former chairman of the Oil and Gas Journal, and Ronald Vanselow, former chairman of the Government Accountability Office.

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**Insideillinois**

Sept. 7, 2006

**BRIEFS**

**Continued From Page 11**

being internationally recognized.
Each film will be introduced with commentary by visit-

ing Israeli author Gil Halow. The movies will be shown at
7:30 p.m. in 101 Memorial Union.

The films, "Colpitts," Sept. 27; "Zoodology: A War Story,"
Sept. 30; "Benjamin and His Bows" and "Tissue," Oct. 1, and "James Journey to Jerusalem," Oct. 27, are

The Israeli Film Series is sponsored by the Program in
Jewish Cultural and Society and the Jewish Federation of
Metropolitan Chicago and the Chicago-Jerusalem Federation.

**WILL-TV**

**Student forum focuses on segregation**

After hearing from students that campus interaction be-
tween students of different races and backgrounds is lim-
ited, a US Faculty Senate Committee sponsored a student forum last spring on the issue.

The forum, "Legally Integrated but Social Segregated: Life on Campus for Students of Us," was held in the WILL-TV studio and made into DVDs for distribution to

Student forum focuses on segregation

Jewish Federation.

in Jewish Culture and Society, Cinema Studies, the Hillel

The Sept. 8 meal will be a "Medieval Autumn Feast"
at 7:30 p.m. in 101 Armory.

The forum, "Legally Integrated but Social Segregated:

From photographers to musicians and painters, artists

Entrepreneurial artists share experiences

"The School of Music will mark the fifth anniversary of the

The program will consist of J.S. Bach's Cantata 51,
"Jauchzet Gott in allen Landen!" ("Praise God in all Land")
and will feature UI music faculty members Olle Watts Davis, Michael Freedland and Michael Lawrence, and the Pacifica Quartet. Charlotte Mattas will direct the perfor-

The UI Library will offer a series of free workshops this fall for faculty and staff members.

"Library Catalog Workshop" will explain basic and ad-

Advanced searching techniques as well as online research re-

For more information, contact Carole Smith at 333-1652
or csch2006@illinois.edu for a brochure and application form.
Reservations will end when classes are full.

Two ARTstor workshops will be offered this semester.

Featured artists are Annie Abrahams/Clément Charmet,
and xurban_collective.

Hillary Mushkin, Trevor Paglen, Joel Ross, Michael Wilson
and families Dec. 2.

The program will consist of J.S. Bach's Cantata 51,
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