

# Intel News Release

## *Top Teen Scientists Honored at Intel Science Talent Search*

**\$100,000 Top Scholarship Awarded to Jamie Elyce Rubin of Florida; Awards Total \$530,000**

WASHINGTON, D.C., March 11, 2003 - Ten of the nation's brightest high school seniors received scholarships as high as \$100,000 today at the Intel Science Talent Search (STS), America's oldest and most prestigious science competition.

Projects among this year's Top 10 winners include identifying factors that contribute to the increase in cockroach allergy-induced asthma observed in inner city areas and a study that discovered a previously unidentified plateau on Venus that could lead to better understanding of the planet's formation.

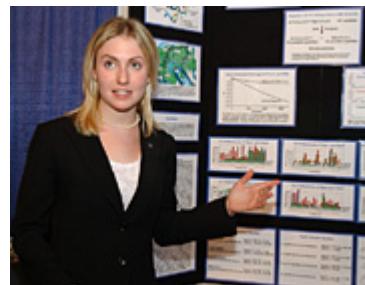
Jamie Rubin, 16, of Canterbury School in Fort Myers, Fla., won top honors and a \$100,000 scholarship in the Intel STS, often considered the "junior Nobel Prize." Rubin identified small molecules that could be useful as targeted treatment for infections caused by *Candida albicans*. This yeast can cause severe infections, especially in patients with compromised immune systems such as those with AIDS or cancer. Rubin was inspired by her volunteer work with patients at Hope Hospice in her hometown.

The second place prize, a \$75,000 scholarship, went to Tianhui "Michael" Li, 18, of Oregon Episcopal School in Portland. Li's physics project is based on his three-year study of inertial-electrostatic confinement, a radically different and significantly less expensive way of controlling nuclear fusion than conventional methods. Li is an accomplished pianist who has performed with the Portland Symphony Orchestra.

Anatoly Preygel, 17, of Montgomery Blair High School in Silver Spring, Md., won the third-place \$50,000



Jamie Elyce Rubin, 16, is the top prize winner of Intel's 2003 Science Talent Search



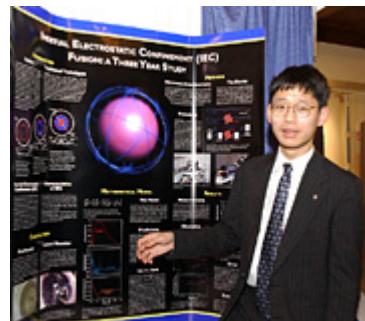
Jamie Elyce Rubin, 16, of Ft. Meyers, Fla. won the top prize, a \$100,000 scholarship at the Intel Science Talent Search, often considered the "junior Nobel Prize," in Washington, D.C., Tuesday, March 11, 2003. Rubin's research can be used as a targeted treatment for infections in patients with compromised immune systems such as those with AIDS or cancer.

scholarship for his study of knot theory, an area of mathematics which examines closed curves in three-dimensional space and has applications in genetic research. Preygel enjoys reading, traveling and maintaining his school Web site.

"Many Intel STS finalists will go on to have distinguishing science careers, perhaps one day solving a fundamental scientific challenge or making a scientific breakthrough that helps improve people's lives," said [Craig Barrett](#), Intel's chief executive officer. "Intel STS students, their teachers, schools and parents exemplify what the country and our businesses need -- a passion for science and math."

Rounding out the top 10 winners:

- Fourth place: A \$25,000 scholarship was awarded to Peter Pawlowski, 17, Troy High School in Fullerton, Calif. for his project "Structure and Stability of Sulfur Trioxide-Ammonia Clusters with Water: Implications on Nucleation and Atmospheric Aerosols."
- Fifth place: A \$25,000 scholarship was awarded to Naveen Sinha, 18 of Los Alamos High School in Los Alamos, N.M. for his project "Bubble-based Resonance-Doppler Technique of Liquid Characterization."
- Sixth place: A \$25,000 scholarship was awarded to Lester Mackey, 18 of Half Hollow Hills High School West, Dix Hills, N.Y. for his project "A Combinatorial Proof of Seymour's Conjecture for Regular Oriented Graphs with Almost Regular Outsets O'\_a and O''\_a."
- Seventh place: A \$20,000 scholarship was awarded to Carolyn Tewksbury, 17, Clinton Senior High School, Clinton, N.Y. for her project "Collapse of the Pasom-mana Tessera Region, Venus: Implications for the Evolution of Crustal Plateaus."
- Eighth place: A \$20,000 scholarship was awarded to Yi-Chen "Lilly" Zhang, 17, The Bronx High School of Science, Bronx, N.Y. for her project "Sub-lethal Exposure of German Cockroaches to Pesticides Contributes to



Tianhui "Michael" Li, second place winner in the Intel Science Talent Search is the winner of a \$75,000 scholarship. Li, from Oregon Episcopal School in Portland won for his study of a less expensive way of controlling nuclear fusion.



Anatoly Preygel, is the third place winner of \$50,000 in the Intel Science Talent Search. Preygel's mathematics project examines closed curves in three-dimensional space and has applications in genetic research.



Anatoly Preygel, Jamie Rubin and Tianhui Li, top three winners of Intel's 2003 Science Talent Search

Increased Expression of Bla g 2, a Cockroach Allergen Associated with Inner City Asthma."

- Ninth place: A \$20,000 scholarship was awarded to Anna Gekker, 17, Brooklyn Technical High School, Brooklyn, N.Y. for her project "The Effects of Psychosocial Factors on Recovery Time and Level of Health Improvement Among Patients Suffering from Physical and /or Mental Disability in a Subacute Rehabilitation Setting."
- Tenth place: A \$20,000 scholarship was awarded to Emma Schmidgall, 17, Robbinsdale Cooper High School, New Hope, Minn. for her project "Inferring Surface Lattice Structure from Scanning Tunneling Microscopy Measurements of the High-temperature Superconductor  $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{CuO}_{8+d}$ ."

The remaining 30 finalists will each receive a \$5,000 scholarship and all students will receive a high-performance computer.

### **Judging**

Intel STS winners were selected based on their research ability, scientific originality, creative thinking and ability to apply science to the world around them. Chairing the judging committee was Dr. Andrew Yeager, director of Stem Cell Transplantation at the University of Pittsburgh Medical Center.

"The judging committee works to identify students with exceptional promise for future leadership and creativity in science and technology. With such a group of outstanding students, it is an arduous task to select the top 10," Yeager said.

### **Background**

Over the past 62 years, STS alumni have been recipients of the world's most coveted science and math honors including five Nobel Prizes, three National Medals of Science, 10 MacArthur Foundation Fellowships and two Fields Medals.

Science Service, a nonprofit organization whose mission is to advance the understanding and appreciation of science among people of all ages

through publications and educational programs, has administered the program since its inception in 1942. Over the years, STS has recognized more than 2,000 finalists with more than \$5 million in scholarships. For more information on Science Service and the Intel STS, visit [www.sciserv.org](http://www.sciserv.org).

Intel's sponsorship of the Science Talent Search is part of the Intel® Innovation in Education initiative to prepare today's teachers and students for tomorrow's demands. Intel develops and supports education programs that help meet the needs of students and communities worldwide through improving science and mathematics education; improving education through the effective use of technology in classrooms; and broadening access to technology and technical careers.

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