



**Davidson Fellow Laureate
Jamie Rubin**

(\$50,000 Scholarship Recipient)



Personal Info

Jamie Rubin
Age: 16
Ft. Myers, Fla.

School, College and Career Plans

Jamie is a recent graduate of Canterbury School and she plans to attend Harvard this fall. She is considering a concentration of studies in biophysics as her major.

Davidson Fellows Submission (*Science*)

Jamie conducted in-depth research into treating infections caused by the *Candida albicans* fungus with a combinatorial approach, cutting the time needed for future research from several years to less than a week. Jamie's research, outlined in her project "Characterization of the Secreted Aspartic Proteinases of *C. albicans* Using a Combinatorial Approach," could improve the quality of life for millions with compromised immune systems, including cancer, HIV and AIDS patients.

Biography

Jamie grew up in Fort Myers, Florida where she attended the Canterbury School from pre-school through 12th grade.

In 2001, Jamie chose to begin her research of *Candida albicans* based upon her knowledge of the debilitating illnesses caused by the fungus. Jamie's primary obstacle during her research was that the laboratory in which she worked was located four hours from her home, making it a challenge to conduct experiments that required daily monitoring.

During high school, Jamie was a member of several academic teams as well as many school organizations. She has a wide variety of interests, including music, literature, history, mathematics, and science.

Jamie enjoys cross-country running and taking dance lessons.

Please see next page.



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(Cont.)

Honors/Awards

- 2003 Davidson Fellow Laureate
- 2003 Intel Science Talent Search, First Place and \$100,000 scholarship
- 2003 National Merit Scholar
- 2003 President's Award for Educational Excellence
- 2003 Bausch & Lomb Honorary Science Award for "Outstanding Academic Achievement and Superior Intellectual Promise in the Field of Science"
- 2003 The Ashtavadhani Vidwan Ambati Subbaraya Chetty (AVASC) Foundation Award for a project that displays outstanding creativity, ingenuity and has the potential to alleviate the human condition or mark a substantive advance in the scientific field
- 2003 U.S. Air Force Award, Second Place
- 2003 Intel International Science and Engineering Fair, Second Place in Microbiology
- 2003 48th Annual Science & Engineering Fair of Florida, Second Place
- 2003 40th Annual Junior Science and Humanities Symposium, Top Speaker
- 2003 45th Annual Thomas Alva Edison Regional Science and Engineering Fair, First Place in Microbiology Research
- 2002 Siemens Westinghouse Math, Science and Technology Competition, Individual Regional Finalist
- 2002 AP Scholar

Community Activities

Jamie was inspired to work on her project as a result of her volunteer work at Hope Hospice, an organization providing palliative care to patients and families of patients with life-limiting illnesses. At Hope Hospice, Jamie prepared food, spoke with the residents and fed patients who were unable to feed themselves.

She delivered the opening address at the 2003 National HIV/AIDS Update Conference in Miami, Florida.

Jamie has also been active in community service groups that help other teenagers, such as peer tutoring and Teen Court. This summer, Jamie is serving as a counselor at the Research Science Institute (RSI), a six-week program for high school students sponsored by the Center for Excellence in Education and held at the Massachusetts Institute of Technology (MIT).

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The Davidson Institute for Talent Development

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