



**Davidson Fellow  
Stephanie Tse**

(\$10,000 Scholarship Recipient)



**Personal Info**

Stephanie Tse  
Age: 17  
Los Angeles, CA

**School, College and Career Plans**

Stephanie recently graduated from Alhambra High School and will attend the University of California, Irvine in the fall. She plans to continue with her lab experiences and major in the biological and physical sciences. Stephanie plans to pursue a science- or medical-oriented career.

**Davidson Fellows Submission** (*Science*)

In her project titled “SNP Detection of a 410bp Region of the MTRR Promoter in Colorectal Adenoma Patients,” Stephanie Tse’s research could one day enable doctors to determine a patient’s likelihood to develop colorectal cancer, the second-leading cause of cancer-related deaths in the United States. By isolating and testing the gene that is believed to cause colorectal cancer for mutations, Stephanie’s work could potentially allow doctors to diagnose the condition years earlier and thereby treat the disease much more effectively.

**Biography**

Stephanie began scientific research when she was accepted into the Biomedical Independent Research Program during her freshman year at Alhambra High School. The program gives high school students the opportunity to conduct scientific research in laboratory settings.

A bilingual student taking AP and honors classes, Stephanie worked on the same research project for four years; she was able to build a solid foundation over time with the goal of finding a genetic cause, and even possible cures, for colorectal cancer.

In 2003, she received the chance to work in Dr. Robert Haile’s Epidemiology Laboratory at the University of Southern California (USC) Norris Cancer Center as a student researcher. Also, for the summer of 2003 and 2004, her participation as an Edmondson Fellow for the USC Edmondson Summer Fellowship Program exposed her to the field of medical science through research and lectures by medical scientists/doctors.

Stephanie enjoys designing web sites and helping others.

*Please see next page.*



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*(Cont.)*

**Honors/Awards**

- 2004 Davidson Fellow
- 2004 Los Angeles County 54<sup>th</sup> Annual Science Fair in Biochemistry, Senior Division, Third Place
- 2003 Siemens Westinghouse Competition, Math: Science : Technology, Regional Top 300 Semi-Finalist
- 2003 Los Angeles County 53<sup>rd</sup> Annual Science Fair in Biochemistry, Senior Division, Fourth Place
- 2003 Alhambra High School Science/Engineering Competition, First Place
- 2003 American Air Force Academic & Science Excellence Award
- 2003 California Association of Professional Scientists Outstanding Science Achievement Award
- 2002 Alhambra High School Science/Engineering Competition, First Place
- 2002 American Air Force Academic & Science Excellence Award
- 2002 Golden State Exam: Geometry with Recognition
- 2001 American Air Force Academic & Science Excellence Award
- 2001 Golden State Exam: Algebra with Honors

**Community Activities**

As the secretary of the Alhambra High School L.E.O. service club, Stephanie helps serve the community and school throughout the year.

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