GRANT NUMBER: _____

BIOGRAPHICAL SKETCH

Give the following information for all new key personnel, consultants, and collaborators.
Copy this page for each person.

NAME	POSITION TITLE
JOYNER, Christine C.	Graduate Student

EDUCATION *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
U.C.L.A., Los Angeles, California	B.S.	1990	Biochemistry

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Key personnel include the principal investigator and any other individual who participate in the scientific development or execution of the project. Key personnel typically will include all individuals with doctoral or other professional degrees but in some projects will include individuals at the masters or baccalaureate level provided they contribute in a substantive way to the scientific development or execution of the project. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

Professional Experience:

Undergraduate Research	1989-1990	UCHSC, Denver, Colorado with Dr. Kathryn Howell to isolate rat liver microsomes with antibodies to apolipoprotein ß.
Graduate Student	1990-1991	Chemistry & Biochemistry UCLA, Los Angeles, CA Graduate Research with Dr. Verne Schumaker to transcribe portions of apolipoprotein ß *in vitro*.
Graduate Student	1992-Present	Cellular and Structural Biology UCHSC, Denver, Colorado

Teaching:

Teaching Assistant for General Chemistry, and Biochemistry Laboratory, U.C.L.A.

Publications:

Davis, R.A., Thrift, R.N., Wu, C.C., and Howell, K.E. (1990) Apolipoprotein ß is both integrated into and translocated across the endoplasmic reticulum membrane: Evidence for two functionally distinct pools. **J. Biol. Chem.** 265:10005-10011.

Joyner, C., Silve, S., Howell, K.E. and Franzusoff, A. (1993) Human ARF4 expression in yeast restores protein transport in *sec7* mutants. *submitted.*