BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants and collaborators. Begin with the principal investigator/program director. Photocopy this page for each person.

NAME	POSITION TITLE
Thomas Jue	Associate Professor

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
University of California, Berkeley	BA	1971	English
California State University, Hayward	BA	1977	Chemistry
University of California, Davis	PhD	1983	Chemistry

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 individuals 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

1982-83 Postgraduate Research Associate, Department of Chemistry, University of California, Davis
1983-88 Associate Research Scientist, Molecular Biophysics & Biochemistry, Yale University
1989-present Associate Professor, Department of Biological Chemistry, University of California, Davis

HONORS

Graduate Opportunity Fellowship, University of California, Davis, 1980-81, 1981-82
US Patent No. 4,678,995: Apparatus and Method for Determining the Presence of Substances in a Sample by NMR and Producing an NMR Image Thereof.

PUBLICATIONS (most recent from a total of 37)

1. Bogan, J.S. and T. Jue. A computer controlled attenuator for indirect detection experiments. **J. Mag. Res.** 70:140-143, 1986.

2. Jue, T. Winnowing the ^{13}C-^{1}H resonances in the *in vivo* NMR spectrum. **J. Mag. Res.** 71:532-538, 1987.

3. Jue, T. A strategy to sift for ^{13}C-^{1}H and ^{12}C-^{1}H metabolite relaxation rate in the *in vivo* ^{1}H NMR spectra. **J. Mag. Res.** 73:353-359, 1987.

4. Jue, T. Two for one: simultaneous winnowing the ^{13}C-^{1}H and ^{12}C-^{1}H signals using only ^{1}H pulses. **J. Mag. Res.** 73:524-529, 1987.

5. Kay, L., T. Jue, B. Bangerter and P. Demou. Sensitivity enhancement of ^{13}C T1 measurements via polarization transfer. **J. Mag. Res.** 73:558-564, 1987.

6. Jue, T., J.A.B. Lohman, R. Ordige and R.G. Shulman. Natural abundance ^{13}C NRM spectrum of glycogen in humans. **Mag. Res. in Med.** 5:377-379, 1987.

7. Jue, T. Decoupling the homonuclear interaction in the edited ^{13}C-^{1}H spectra. **J. Mag. Res.** 76:321-324, 1988.

8. Jue, T., Y. Chung and R.G. Shulman. Measuring the redox potential in perfused liver with ^{1}H NRM. **J. Mag. Res.** 76:178-182, 1988.

9. Hanstock, C.C., D.L. Rothman, T. Jue and R.G. Shulman. Volume-selected proton spectroscopy in the human brain. **J. Mag. Res.** 77:583-588, 1988.