Carolyn Jean Smith

Home Address	**Phone and Email**
76 Lexington Ave., Apt. 1	(617) 628-0406
Somerville, MA 02144	cjsmith@mit.edu

Experience

ARQULE CORPORATION AND BRANDEIS UNIVERSITY — 1996–present

As consultant to Arqule Corporation and Visiting Scientist at Brandeis, worked on a joint project between Arqule Corporation and Brandeis on a project involving synthesis of novel protease inhibitors. Designed an enzyme kinetics laboratory; developed, ran, and did troubleshooting of assays to test synthetic inhibitors of thrombin and other enzymes; performed and presented kinetic analyses of the results.

DANA FARBER CANCER INSTITUTE, DEPT. OF CANCER PHARMACOLOGY — 1996–1998

Under the direction of Dr. Miyako Abe, cultured MCF-7 cells and purified DF3 protein for use in research into the role of DF3 in cellular function. Responsibilities included Laboratory Safety Officer, Radiation Safety Officer, laboratory management, ordering, troubleshooting and maintenance of equipment, conducting experiments. Techniques included cell culture, FPLC, Western immunoblotting, plasmid transfection, and affinity chromatography, PCR, phage library screening, DNA and plasmid purification. Trained and supervised summer student.

TUFTS UNIVERSITY, DEPT. OF ANATOMY AND CELL BIOLOGY — 1995

Held the position of research technician under the direction of Dr. Mary K. Murray. Techniques included lectin chromatography and electrophoresis, DNA cloning, PCR, and DNA sequencing.

MASSACHUSETTS GENERAL HOSPITAL, DEPT. OF HEMATOLOGY-ONCOLOGY, AND BRIGHAM AND WOMEN'S HOSPITAL, DEPT. OF EXPERIMENTAL MEDICINE — 1987–1994

Held the position of research technologist under the direction of Dr. Stuart Lind. Responsibilities: Safety Officer, Radiation Safety Officer, lab management, experimental design, conducting experiments, and supervision and training of incoming technician. Techniques included protein purification, affinity and ion exchange chromatography, ELISAs, SDS-PAGE, immunoblots, antibody preparation, small animal surgery, histological staining of rat and human tissue preparations, enzyme kinetics experiments (synthetic substrate assays), fibrinolysis experiments using fibrinogen or whole plasma and I^{125}, and cell culture.

Publications

"Actin Stimulates Plasmin Generation by Tissue and Urokinase-Type Plasminogen Activators," by Stuart E. Lind and Carolyn J. Smith. *Archives of Biochemistry and Biophysics*, vol. 307, no. 1, Nov. 15, 1993.

"Oxidative Inactivation of Plasmin and Other Serine Proteases by Copper and Ascorbate," by Stuart E. Lind, Jonathan R. McDonagh, and Carolyn J. Smith. *Blood*, vol. 82, no. 5, Sept. 1, 1993.

"Actin Accelerates Plasmin Generation by Tissue Plasminogen Activator," by Stuart E. Lind and Carolyn J. Smith. *Journal of Biological Chemistry*, vol. 226, no. 26, Sept. 15, 1991.

"Actin Is a Noncompetitive Plasmin Inhibitor," by Stuart E. Lind and Carolyn J. Smith. *Journal of Biological Chemistry*, vol. 266, no. 8, March 15, 1991.

Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, B.S., Life Sciences, 1987