

MIRIAM R. KAPLAN, Ph. D.
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EDUCATION:

**Ph.D. in
Neurosciences**
9/93 to 9/00

STANFORD UNIVERSITY

Stanford, CA

Thesis advisor: Ben Barres, M. D., Ph. D.

Project: Development of an *in vitro* Model of the Node of Ranvier

Skills: Purification and primary culture of neurons and glia, biochemistry, assay development, cell biology, pharmacology, microscopy, immunocytochemistry

B.A. in Biology
8/89 to 5/93

BRANDEIS UNIVERSITY

Waltham, MA

Highest Honors in Biology, *summa cum laude*

Thesis advisor: Chandler Fulton, Ph. D.

Courses

COLD SPRING HARBOR LABORATORY

Cold Spring Harbor, NY

7/01

“Molecular Cloning of Neural Genes”

4/96

“Protein Purification and Characterization”

WORK EXPERIENCE:

Licensing Intern

12/03 to 5/04,
3/03 to 9/03

OFFICE OF TECHNOLOGY TRANSFER

University of California Office of the President, Oakland, CA

Duties: Used patent applications, issued patents, and other publications to write over 150 non-confidential descriptions of University technologies. Created marketing descriptions for packages of related University technologies. Created marketing database and trained assistants to aid in marketing. Assisted Licensing Officers in negotiating and drafting licenses. Investigated potential infringers of University patents.

Licensing Associate

10/03 to 12/03

OFFICE OF TECHNOLOGY MANAGEMENT

University of California, San Francisco, CA

Duties: Wrote non-confidential descriptions of and marketed University technologies. Conducted new case assessments, including marketing and patentability analyses. Conducted infringement analyses for University patents.

Postdoctoral Fellow

3/01 to 6/03

UNIVERSITY OF CALIFORNIA SAN FRANCISCO

San Francisco, CA

Mentor: Cori Bargmann, Ph. D.

Project: Genetic Analysis of Neuronal Polarity in *C. elegans*

Skills: Worm breeding and genetics, mutagenesis, genetic mapping, positional cloning, molecular biology, microscopy, BLAST and other database searching

Postdoctoral Fellow **STANFORD UNIVERSITY**
10/00 to 2/01 Stanford, CA
Mentor: Ben Barres, M. D., Ph. D.
Project: Continued experiments from doctoral thesis for publication.

Summer Research **UNIVERSITY OF PENNSYLVANIA**
5/91 to 8/91 Philadelphia, PA
Mentor: Robert M. Levin, M. D.
Project: Effect of Ryanodine on Mitochondrial Respiration
Skills: Biochemistry, pharmacology

HONORS:

Admission Admitted to practice before the USPTO
2/04

Fellowship Individual National Research Service Award, NIH
5/02 to 6/03

Travel Grant Kathleen McCormick Fund For Women, Brandeis University
1994

Honor Society Inducted into Phi Beta Kappa
5/93

Fellowship Undergraduate Fellows Program, Brandeis University
9/92 to 5/93

Fellowship Nathan and Bertha Richter Award for Summer Research, Brandeis University
1992

PUBLICATIONS:

Kaplan, M.R., Cho, M-H, Ullian, E.M., Isom, L.L., Levinson, S.R., Barres, B.A. Differential control of clustering of the sodium channels Nav1.2 and Nav1.6 at nodes of Ranvier. *Neuron*, 2001, 30:105-119.

Kaplan, M.R., Meyer-Franke, A., Lambert, S., Bennett, V., Duncan, I.D., Levinson, S.R., Barres, B.A. Induction of sodium channel clustering by oligodendrocytes. *Nature*, 1997, 386:724-728.

Meyer-Franke, A., **Kaplan, M.R.**, Pfrieger, F.W., Barres, B.A. Characterization of the signaling interactions that promote the survival and growth of developing retinal ganglion cells in culture. *Neuron*, 1995, 15:805-819.

Levin, R.M., Haugaard, N., Packard, D., **Kaplan, M.**, Wein, A.J. Effect of ryanodine on mitochondrial respiration. *Pharmacology*, 1992, 45(2):117-20.