

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Bhat, Manzoor A.		POSITION TITLE Professor	
eRA COMMONS USER NAME Manzoor_Bhat			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Kashmir, India	M.S.	1986	Biochemistry
Indian Institute of Science, Bangalore, India	Ph.D.		
Shiga University Medical School, Japan	Ph.D.	1993	Biochem./Mol.Biology
Baylor College of Medicine, Houston, Texas	Fellow	1994-1998	Neurobiology

A. Positions and Honors.

- 1986 - 1987 **Junior Research Fellow**, Molecular Biophysics Unit, Indian Institute of Science, Bangalore, India.
- 1987 - 1990 **Graduate Student**, Department of Biochemistry, Indian Institute of Science, Bangalore, India.
- 1990 - 1992 **Graduate Student**, Department of Biochemistry, Shiga University of Medical Science, Shiga, Japan
- 1992 - 1993 **Visiting Research Associate**, National Center for Biological Sciences, Bangalore, India.
- 1994 - 1998 **Research Associate**, Howard Hughes Medical Institute, Baylor College of Medicine, Houston, TX.
- 1998 - 1999 **Howard Temin Fellow** (National Cancer Institute), Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX.
- 1999 - 2002 **Assistant Professor**, and Howard Temin Fellow, Department of Medicine, Mount Sinai School of Medicine, New York, NY.
- Hirschl Scholar**, Irma T. Hirschl Foundation, 2002-2007
- 2003 - 2008 **Associate Professor**, Department of Cell and Molecular Physiology, University of North Carolina, Chapel Hill, NC
- 2008 -- **Professor**, Department of Cell and Molecular Physiology, University of North Carolina, Chapel Hill, NC

Honors and Awards:

- 1986 University Gold Medal, University of Kashmir, Kashmir, India.
- 1986 Certificate of Distinction in the Faculty of Science, University of Kashmir, Kashmir, India.
- 1987 Graduate Fellowship, University Grants Commission and Council of Scientific and Industrial Research, New Delhi, India.
- 1990 International Scholarship (Monbusho), Ministry of Education, Science and Culture, Govt. of Japan.
- 1998 Howard Temin Career Development Award, National cancer Institute
- 2002 Hirschl Career Development Award, Irma T. Hirschl Foundation, 2002-2007

B. Selected peer-reviewed publications (in chronological order).

- Khan, N.U., **M.A. Bhat** and C.S. Vaidyanathan. 1989. Phenylalanine ammonia-lyase: An Update on its Kinetics. **Current Science** 58, 427-430.
- Radjendirane, V., **M.A. Bhat** and C.S. Vaidyanathan. 1991. Affinity Purification and Characterization of 2,4-Dichlorophenol Hydroxylase from *Pseudomonas cepacia* CSV90. **Arch. Biochem. Biophys.** 288, 169-176.

3. **Bhat, M.A.**, T. Ishida, H. Horiike, C.S. Vaidyanathan and M. Nozaki. 1993. Purification of 3,5-Dichlorocatechol 1,2-Dioxygenase: a Non Heme Iron Dioxygenase and a Key Enzyme in the Biodegradation of a Herbicide 2,4-Dichlorophenoxyacetic Acid (2,4-D) from *Pseudomonas cepacia* CSV90. **Arch. Biochem. Biophys.** 300, 738-746.
4. **Bhat, M.A.**, T. Tsuda, K. Horiike, M. Nozaki, C.S. Vaidyanathan, and T. Nakazawa. 1994. Isolation and Characterization of a New Plasmid Encoding Genes for the Degradation of 2,4-Dichlorophenoxyacetic Acid (2,4-D) from *Pseudomonas cepacia* CSV90. **Appl. Environ. Microbiol.** 60, 307-312.
5. **Bhat, M.A.** and C.S. Vaidyanathan. 1994. Microbial Degradation of Halogenated Aromatics. *In* **Biotransformations: Microbial Degradation of Health Risk Compounds**. Series Progress in Industrial Microbiology, pp. 125-156, Elsevier Press.
6. Kania, A., A. Salzberg, **M. Bhat**, D. D'Evelyn, Y.-C. He and H.J. Bellen. 1994. Mutations on the Second Chromosome that Affect the Development of the Peripheral Nervous System in *Drosophila*. **Genetics** 139, 1663-1678.
7. Baumgartner, S., J.T. Littleton, K. Broadie, **M.A. Bhat**, R. Herbecke, J.A. Lengyel, R. Chiquet-Ehrismann and H.J. Bellen. 1996. A *Drosophila* Neurexin is Required for Septate Junction and Blood-Nerve Barrier Formation and Function. **Cell** 87, 1059-1068.
8. **Bhat, M.A.**, A.V. Philp, D.M. Glover and H.J. Bellen. 1996. Chromatid Segregation at Anaphase Requires the *barren* Product, a Novel Chromosome Associated Protein that Interacts with Topoisomerase II. **Cell** 87, 1103-1114.
9. J.T. Littleton, **M.A. Bhat** and H.J. Bellen. 1997. Deciphering the Function of Neurexins at Cellular Junctions. **J. Cell Biol.** 137, 793-796.
10. Wu, M., J.T. Littleton, **M.A. Bhat** and H.J. Bellen. 1997. Rop, the *Drosophila* Sec1 Homolog, Interacts with Syntaxin and Regulates Neurotransmitter Release in a Dosage Dependent manner. **EMBO J.** 17, 127-139.
11. Cabello, O.A., A. Baldini, **M. Bhat**, H. Bellen and J.W. Belmont. 1997. Localization of BRRN1, the human homologue of *Drosophila barr*, to 2q11.2. **Genomics** 46:311-313.
12. Bellen, H. J., Y. Lu, R.B. Beckstead, and **M.A. Bhat**. 1998. Neurexin IV, Caspr, Paranodin, Novel Members of the Neurexin family: Encounters of Axons and Glia. **Trends Neurosci.** 10, 444-449.
13. **Bhat, M.A.**, S. Izadoost, Y. Lu, K. Cho, K. Choi and H.J. Bellen. 1999. Discs Lost, a Novel Multi-PDZ Domain Protein, Establishes and Maintains Epithelial Polarity. **Cell** 96, 833-845.
14. **Bhat, M.A.**, J.C. Rios, Y. Lu, G.P. Garcia-Fresco, W. Ching, M.S. Martin, S. Einheber, M. Chesler, J. Rosenbluth, J.L. Salzer, and H.J. Bellen. 2001. Axon-Glia Interactions and the Domain Organization of Myelinated Axons Requires Caspr/Paranodin. **Neuron** 30, 369-383 (**featured on Cover**)
15. Izadoost, S., S. Nam, **M.A. Bhat**, H.J. Bellen and K. Choi. 2002. *Drosophila* Crumbs is a Positional Cue in Photoreceptor Adherens Junctions and Rhabdomeres. **Nature** 416, 178-182
16. De Graeve F, Smaldone S, Laub F, Mlodzik M, **Bhat M.A.** and Ramirez F. 2003. Identification of the *Drosophila* progenitor of mammalian Kruppel-like factors 6 and 7 and a determinant of fly development. **Gene** 2003 18, 55-62.
17. Rios, J.C., M. Rubin, M. St. Martin, R.T. Downey, Einheber, S., J. Rosenbluth, S.R. Levinson, **M. Bhat** and J.L. Salzer, 2003. Paranodal interactions regulate expression of sodium channel subtypes and provide a diffusion barrier for the node of Ranvier. **J. Neurosci.** 23, 7001-7011.
18. **Bhat, M.A.** 2003. The Neurexin and NCP Gene Family. *In* **Myelin and Its Diseases**, Ed Robert Lazzarini, Elsevier Ltd.
19. **Bhat, M.A.** 2003. Molecular organization of axo-glial junctions. **Curr. Opin. Neurobiol.** 13, 552-559 (**featured on Cover**).
20. Faivre-Sarrailh, C., S. Banerjee, J. Li, M. Laval, M. Hortsch, and **M.A. Bhat**. 2004. *Drosophila* Contactin, a homolog of vertebrate contactin is required for septate junction organization and paracellular barrier function. **Development** 131, 4931-4942.
21. Banerjee, S., Pillai, A., Paik, R., and **M.A. Bhat**. 2006. Axonal Ensheathment and Septate Junction Formation in the Peripheral Nervous System of *Drosophila*. **J. Neurosci.** 26, 3319-3329.

