

BIOGRAPHICAL SKETCH

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

NAME Bryan William Jones		POSITION TITLE Research Assistant Professor	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Utah	B.S.	1996	Biology, Chemistry
University of Utah	Ph.D.	2003	PhD
University of Utah	Post-doctoral	2003-2004	Ophthalmology

A. Positions and Honors.**Employment**

1990-1994 Polysomnography/Neurodiagnostics, Sleep Disorders, University of Utah Sch of Medicine
 1994-2004 Sleep and Clinical Neurodiagnostics consultant, Snow Canyon Clinic/Neurodiagnostics
 1998-2003 Graduate Student University of Utah Department of Physiology
 2003-2004 Post Doctoral Fellow, Huntsman Cancer Institute
 2004-2005 Post Doctoral Fellow, Moran Eye Center
 2005- Research Assistant Professor, Moran Eye Center

Experience**Awards:**

National Eye Institute (NEI) Travel Fellowship Grant, 2002.
 Young Investigator Award RD2004.

Committees:

Chair: Student Tenure Review Committee Moran Eye Center 2004
 Chair: Student Tenure Review Committee Moran Eye Center 2001
 Member: Faculty review committee. Dept. of Bioinformatics University of Utah School of Medicine
 2001-
 2002.

Reviewer: Vision Research, Experimental Neurology

Editor/Webmaster: Webvision <http://webvision.med.utah.edu/>

Teaching: Physiology Lab: Epilepsy, Sleep, EEG and neurodiagnostics to first
 and second year medical students: University of Utah School of Medicine 1997-
 2005
 Teaching digital imagery and image analysis: Marc Lab 1998-2005
 Graduate and Undergraduate Student Mentoring 2004-2005

B. Publications

Review: Retinal Remodeling During Retinal Degeneration. Jones BW, Marc RE. *Experimental Eye Research* 2005, 81: 121-244.

Excitation mapping with the organic cation AGB (Agmatine). Marc RE, M Kalloniatis, and BW Jones. 2005. *Vision Research*, in press.

Review: Plasticity and Retinal Remodeling. Jones BW, Marc RE. *Clinical and Experimental Optometry* 2005. In Press.

Chapter: Neural plasticity revealed by light-induced photoreceptor lesions. BW Jones, RE Marc, CB Watt, DK Vaughan, DT Organisciak. *Proceedings RD2004*. 2005.

Review: Retinal remodeling: Circuitry revisions triggered by photoreceptor degeneration. In *Plasticity in the Visual system: Marc RE, BW Jones and CB Watt*. 2005, From Genes to Circuits. Eds, Pinaud et al., in press.

Retinal remodeling triggered by photoreceptor degenerations. Jones BW, Watt CB, Frederick JM, Baehr W, Chen CK, Levine EM, Milam AH, LaVail MM, Marc RE. *Journal of Comparative Neurology* pp. 1-16 Sep, 8;464(1) 2003

Neural Remodeling in Retinal Degeneration. Marc RE, BW Jones, CB Watt and E Strettoi. *Progress in Retinal and Eye Research, Prog Retin Eye Res*. pp. 607-655 Sep; 22(5) 2003

Retinal remodeling in inherited photoreceptor degenerations. Marc RE, BW Jones *Molecular Neurobiology* 28: 139-148 2003.

Molecular Phenotyping of Retinal Ganglion Cells Robert E. Marc and Bryan W. Jones. *The Journal of Neuroscience*. pp 413-427 Jan, 15 22(2) 2002.

Familial advanced sleep-phase syndrome: A short-period circadian rhythm variant in humans: pp 1062-1065 CR Jones, SS Campbell, SE Zone, F Cooper, A DeSano, PJ Murphy, B Jones, L Czajkowski & Louis J. Ptacek. *Nature Medicine* 2000

C. Research Support

ACTIVE AWARDS

NIH NEI RO1 EY02576-30 ... 35, Title: *Structural Neurochemistry of Retinal Circuits*. Period 01 Jan 2006 – 31 Dec 2010. Role & Objectives: Bryan W. Jones (75%), Robert E. Marc, PI; Aims: (1) Generate a comprehensive retinal map of connectivity steered by computational classification; (2) resolve the neurochemical identities of key interneurons; (3) resolve the scaling parameters for glutamatergic drive through the retina..

NIH NIBIB, Title: *Large-scale computational reconstruction of three-dimensional neural connectivity from serial-section microscopy*, Bryan W. Jones, 25%; PI: T Tasdizen, Univ Utah School of Computing. Period 01 Jul 2005 – 30 Jun 2009. Role & Objectives; Aim: Develop high-capacity software tools for precise, non-linear, automated image mosaicking/registration; process segmentation/tracking; texture mapping; and synapse identification in Tbyte ultrastructural datasets from the mammalian retina.

PLANNED SUBMISSIONS

NIH NIBIB, Title: *Visualizing the Metabolome*. Period 01 Sep 2006 – 31 Aug 2011 Role & Objectives: Robert E. Marc, PI; Aims: The aims of this program are realization of a comprehensive metabolite map for the mammalian body and definition of the basic small molecule profiles of all cells.

COMPLETED AWARDS: N/A