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	POSITION TITLE
Bryan William Jones	Research Assistant Professor

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 Utah	BS	1996	Biology, Chemistry
University of Utah	Ph.D.	2003	Neurophysiology
Huntsman Cancer Institute	Post-Doctoral	2003-2004	Cell biology
Moran Eye Center	Post-Doctoral	2004-2005	Ophthalmology

A. Positions

Employment

1990-1994 Polysomnography/Neurodiagnostics, Sleep Disorders, University of Utah School of Medicine
1994-2004 Sleep and Clinical Neurodiagnostics consultant, Snow Canyon Clinic/Neurodiagnostics
1997-2003 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.
Research Prevent Blindness Career Development Award. 2006
Committees:
Chair: Student Tenure Review Committee Moran Eye Center 2001-2004
Member: Faculty review committee. Dept. of Bioinformatics University of UtahSchool of Medicine 2001-2002.

Reviewer: Vision Research, Experimental Neurology, Journal of Comparative Neurology, Experimental Eye Research

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 1997-2008
Teaching digital imagery and image analysis: Marc Lab 1998-2008
Graduate and Undergraduate Student Mentoring: 2004-2008

Publications:

Papers:

A Computational Framework for Ultrastructural Mapping of Neural Circuitry. Anderson JR, Jones BW, Yang J-H, Shaw MV, Watt CB, Koshevoy P, Spaltenstein J, Jurrus E, Kannan UV, Whitaker R, Mastronarde D, Tasdizen T, Marc R. 2008. Submitted to PLoS Biology

Effect of Shape And Coating Of A Subretinal Prosthesis On Its Integration With The Retina. Butterwick A, Huie P, Jones BW, Marmor MF, Marc RE, Palanker D. Experimental Eye Research. 2008. In Press.

Chapter: Retinal Remodeling and Visual Prosthetics. Jones BW, Watt CB, Marc RE. Visual Prosthetics, Elsevier Press. 2008. In Press.

Extreme Retinal Remodeling Triggered by Light Damage: Implications for AMD. Marc RE, Jones BW, Watt CB, Vazquez-Chona F. Vaughan DK, Organisciak DT. 2008. Molecular Vision 14: 782-806.

Neural Reprogramming in Retinal Degenerations. Marc RE, Jones BW, Anderson JR, Kinard K, Marshak DW, Wilson JH, Wensel TG, Lucas RJ. 2007. Invest. Ophthalmol. Vis. Sci. 48(7):3364-71.

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

Excitation Mapping With the Organic Cation AGB^{2+}. Marc RE, Kalloniatis M, Jones BW. 2005. Vision Research 45: 3454-3468.

Review: Retinal Remodeling in Retinal Degenerations. Jones BW, Watt CB, Marc RE. 2005. Clinical and Experimental Optometry 88: 282-291.

Chapter: Neural Plasticity Revealed by Light-Induced Photoreceptor Lesions. Jones BW, Marc RE, Watt CB, Vaughan DK, Organisciak DT. Retinal Degenerative Diseases, Springer, (New York), pp. 405-410. 2005.

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. 607-655Sep; 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 rhythmvariant 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

Research Support:

Career Development Award. Research to Prevent Blindness. Aims: To better understand processes related to retinal remodeling through examination of factors that mediate cell recognition via examination of loss of Ca2+ mediated signaling results in cell stress and subsequent and integrin expression profile change in retinal remodeling.

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.