

## American Society for Neurochemistry

<i>Detailed Job Description</i>	
<b>Job Title</b>	Post doctoral fellowship
<b>Department</b>	Anesthesiology
<b>Institution or Company</b>	University of Illinois
<b>Application Deadline</b>	Open
<b>Position Start Date</b>	End of 2008
<b>Job Categories</b>	Neuroimmunology, EAE, cytokines
<b>Academic Field(s)</b>	
<b>Job Description</b>	<p>A post-doctoral position is available to study neuroprotective actions of the heat shock response (HSR) in animal models of neurodegenerative disease. The primary focus will be to characterize the ability of small molecular weight inhibitors of HSP90 to suppress inflammatory gene activation in T cells and in parenchymal glial cells in the MOG induced EAE model of MS. These studies expand upon previous results from our lab (Dello Russo et al., J. Neurochem 99, 1351, 2006; Murphy et al. JNeurosci Res. 67, 461, 2002). Studies will include culture of rodent T-cells, glial cells, and neurons; characterization of signaling pathways including PI3/AKT and NFkB:IkB, evaluation of gene expression changes by Q-PCR and mRNA arrays, and histopathological and immunochemical analysis of EAE brains and spinal cords for demyelination, inflammation, and neuronal damage. Complementary studies will be carried out to determine effects of HSP90 inhibitors on primary cultures of oligodendrocyte progenitor cells, and on adult progenitors during disease progression. Experience with the EAE model including immunization methods and clinical scoring is required. Knowledge of T-cell biology or of the HSR would be of benefit.</p>
<b>Salary</b>	Commensurate with NIH standards
<b>Requirements</b>	PhD , and experience with EAE models or comparable models of demyelination
<b>EEO/AA Policy</b>	UIC is an EOO/AA. Applications from women and minorities encouraged.
<b>Contact Information</b>	
<b>Contact person</b>	Doug Feinstein

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<b>Local address during ASN meeting</b>	Main hotel