

Curriculum Vitae
Andrew Michael Tan

Neuroscience and Regeneration Research
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EDUCATION

November 2006: Ph.D. in Neuroscience at SUNY Stony Brook, Stony Brook, NY
Advisor: Joel Levine

May 2001: B.S. in Neuroscience at the University of Rochester, Rochester, NY. Advisor: David A. Holtzman

FELLOWSHIPS AND HONORS

The International Spinal Research Trust (ISRT), (Guilford Surrey, U.K.) (pending) 2007

Keystone Symposia Scholarship Winner (NINDS), Keystone Symposia (Breckenridge, CO) 2005

Invited presentation, New York State SCI Research Board Symposia (New York, NY) 2003

Invited presentation, Ray and Robert Kroc Symposium: Myelin Disease (Hartford, CT.) 2002

Travel scholarship, National Conference for Undergraduate Research (Lexington, KY.) 2001

DeKiewiet Research Fellowship, University of Rochester (Rochester, NY) 2000

PUBLICATIONS

Tan, A.M., Colletti, M., Rorai, A., and Levine, J.M. (2006) Antibody-induced neutralization of the glial scar promotes the topographically correct regeneration of sensory axon regeneration. *Journal of Neuroscience*

Tan, A.M., Zhang, W., and Levine, J.M. (2005) NG2: a component of the glial scar that inhibits axon growth. *Journal of Anatomy*

Tan, A.M., Petruska, J., Mendell, L.M., and Levine, J.M. (2007) Sensory afferents regenerated into dorsal columns after spinal cord injury remain in a chronic pathophysiological state. *Experimental Neurology*

Tan, A.M., Brennan, A., Zhao, P., Waxman, S.G., and Hains, B.C. (in preparation) Rac1-mediated dendritic spine remodeling in dorsal horn neurons maintains hyperexcitability and chronic pain after spinal cord injury.

Tan, A.M. and Holtzman, D.A. (in preparation) Spatial learning in juvenile corn snakes is disrupted by the NMDA antagonist, MK-801.

SELECTED PRESENTATIONS/ABSTRACTS

Tan, A.M. & Hains, B.C.. (2007) Rac1-activity dependent dendritic spine remodeling contributes to chronic pain after spinal cord injury. Symposium at the Danish Pain Research Center. Århus, Denmark

Tan, A.M., Colletti, M.C., and Levine, J.M. (2005) Antibody-Induced Neutralization of the Glial Scar Promotes Axon Regeneration. Program No. 836.4. Abstract Viewer/Itinerary Planner. Washington, DC.: Society for Neuroscience.

Tan, A.M., Colletti, M.C., and Levine, J.M. (2005) Antibody-Induced Neutralization of the Glial Scar Promotes Sensory Axon Regeneration. Keystone Symposium—Axonal Connections: Molecular Cues for Development and Regeneration (C6). Breckenridge, CO.

Tan, A.M., Zhang, W., Skene, J.H.P., and Levine, J.M. (2003) Overcoming Inhibitory Barriers to Nerve Regeneration. New York State Spinal Cord Injury Research Board (NYSSCIRB) Symposium. Rockefeller University, NY.

Tan, A.M., Levine, A.K, Chen, Z., and Levine, J.M. (2003) Neutralizing Antibodies Against the NG2 Proteoglycan Promote Sensory Axon Regeneration in the Injured Adult Rat Spinal Cord. Ray and Robert Kroc Symposium: Myelin Disease and Biology. University of Connecticut, CT.

Tan, A.M and Holtzman, D.A. (2001) The Effect of NMDA Blocker, MK-801, on Spatial Learning and Memory in Corn Snake, *Elaphe guttata*. Lexington, KY: National Conference for Undergraduate Research (NCUR).

RESEARCH EXPERIENCE

2007-present: Post-doctoral research focused on elucidating mechanisms of spinal cord injury-induced central sensitization and pain.

2001-2007: Graduate research projects focusing on the axon-growth inhibitory function of the NG2 chondroitin sulfate proteoglycan and the glial scar that forms at sites of spinal cord injury.

2000: Biological field work in South America (Ometepe Island, Nicaragua) with Dr. David A. Holtzman (University of Rochester). Neuroethology research training and expedition in a tropical dry forest. Behavioral studies were on a variety of indigenous species; including bats, monkeys, insects, fish, birds and snakes.

1999-2001: Independent undergraduate research projects with Dr. David A. Holtzman at the University of Rochester. Projects focused on spatial learning and memory in adult garter and corn snakes, and the effects of NMDA antagonist MK-801 on learning, memory and hippocampal neurogenesis. Procedures in small reptile husbandry.

PROFESSIONAL AFFILIATIONS

Society for Neuroscience 2002-present

International Writing Community at Authorme.com, Senior Editor 2004-present

International Association for the Study of Pain (IASP) 2007-present

American Pain Society (APS) 2007-present

Neurotrauma Society 2007-present

REFERENCES

Lorne Mendell, Ph.D.

Department Chair and Distinguished Professor

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