

CURRICULUM VITAE

Guy Gingras, Ph.D.

Department of Neurology
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Canadian citizen (North American Indian)

Postdoctoral Training

2008-present Department of Neurology
University of Pennsylvania School of Medicine
Philadelphia, Pennsylvania, U. S. A.

Research area: Optimizing visual recovery following genetic therapy in an animal model of retinal blindness using behavioral and imaging techniques

Supervisor: Dr. Geoffrey K. Aguirre

2004-2007 Department of Neurobiology and Anatomy
Wake Forest University School of Medicine
Winston-Salem, North Carolina, U. S. A.

Research area: Behavioral assessment of multisensory integration in cats.

Supervisor: Dr. Barry E. Stein

Education

1996-2004 Ph. D. in Psychology and Neuroscience
Department of Psychology, Dalhousie University
Halifax, Nova Scotia, Canada

Thesis title: Spatial localization deficits in amblyopic cats.

Thesis supervisor: Dr. Donald E. Mitchell

1993-1996 M. Sc. in Experimental Neuropsychology
Department of Psychology, University of Montreal
Montreal, Quebec, Canada

Thesis title: Behavioral assessment of experimentally induced retinal inputs into the auditory cortex of hamsters.

Thesis supervisor: Dr. Maurice Ptito

1990-1993 B. A. in Psychology
School of Psychology, Laval University
Quebec City, Quebec, Canada

Honor's thesis supervisor: Dr. James Everett

Published Refereed Articles

Gingras, G., Mitchell, D. E. and Hess, R. F. (2005). Haphazard neural connections underlie the visual deficits of cats with strabismic or deprivation amblyopia. *European Journal of Neuroscience*, 22, 119-124.

Gingras, G., Mitchell, D. E. and Hess, R. F. (2005). The spatial localization deficit in visually deprived kittens. *Vision Research*, 45, 975-989.

Mitchell, D. E., **Gingras, G.** and Kind, P. C. (2001). Initial recovery of vision after early monocular deprivation in kittens is faster when both eyes are open. *Proceedings of the National Academy of Sciences U. S. A.*, 98, 11662-11667.

Frost, D. O., Boire, D., **Gingras, G.** and Ptito, M. (2000). Surgically created neural pathways mediate visual pattern discrimination. *Proceedings of the National Academy of Sciences U. S. A.*, 97, 11068-11073.

Mitchell, D. E., **Gingras, G.** (1998). Visual recovery after monocular deprivation is driven by absolute, rather than relative, visually evoked activity levels. *Current Biology*, 8, 1179-1182.

Conference Abstracts

Gingras, G., Rowland, B. A. and Stein, B. E. (2007). The impact of dark rearing on learning a lateralization task using stimuli of different modalities. Program #614.4 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.

Gingras, G., Rowland, B. A. and Stein, B. E. (2006). Unisensory versus multisensory integration: Computational distinctions in behavior. Program # 639.6 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.

Gingras, G., Rowland, B. A. and Stein, B. E. (2006). Behavioral assessment of unisensory and multisensory integration. Vision Sciences Society, Sarasota, FL, (<http://journalofvision.org/6/6/184/>).

Gingras, G., Rowland, B. A. and Stein, B. E. (2006). The difference between within-modal and cross-modal integration: a Bayesian explanation. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL (*Invest Ophthalmol Vis Sci* 2006; 47: E - Abstract 3686).

Gingras, G., Mitchell, D. E. and Hess R. F. (2001). A comparison of spatial localization deficits in visually deprived kittens and human amblyopes. Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS), Laval University, Quebec City, PQ, Canada.

Mitchell, D. E., **Gingras, G.** and Hess R. F. (2000). Vision in cats after early selective visual deprivation: comparisons with human amblyopia and observations on the mechanisms that underlie the effects of early deprivation. Craik Conference: Vision in the year 2000, Archidosso, Italy.

Gingras, G., Mitchell, D. E. and Hess R. F. (1999). The spatial localization deficit in visually deprived kittens. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.

Ptito, M., **Gingras, G.**, Cassidy, G., Boire D. and Frost D. O. (1997). Visual discriminative capabilities of hamsters with surgically induced retinal projections to auditory cortex. Society for Neuroscience, New Orleans, LA.

Conference Lectures

Gingras, G. and Brown R. E. (2001). Procedures for testing the sensory abilities of inbred, transgenic and mutant mice: a review of the literature. 27th Annual In-House Convention, Department of Psychology, Dalhousie University, Halifax, Nova Scotia, Canada.

Mitchell, D. E., **Gingras, G.** and Kind P. C. (2001). Initial recovery of vision after early monocular deprivation in kittens is faster when both eyes are open. 27th Annual In-House Convention, Department of Psychology, Dalhousie University, Halifax, Nova Scotia, Canada.

Gingras, G. and Mitchell D. E. (1997). Spatial localization in normal and amblyopic cats. 23rd Annual In-House Convention, Department of Psychology, Dalhousie University, Halifax, Nova Scotia, Canada.

Gingras, G. and Mitchell D. E. (1998). Copy cat: Spatial localization deficits in cats with experimentally induced amblyopia are identical to those experienced by human. 24th Annual In-House Convention, Department of Psychology, Dalhousie University, Halifax, Nova Scotia, Canada.

Gingras, G. and Ptito, M. (1995). Aspects fonctionnels des projections rétino-fuges aberrantes du hamster. 4ième journée scientifique, Groupe de Recherche en Neuropsychologie Expérimentale (GRENE), Département de psychologie, Université de Montréal, St-Hippolyte, Québec, Canada.

Scholarships and Fellowships

- 2004 - 2007 NIH research supplements for underrepresented minorities
- 1996 - 2003 Dalhousie University Graduate Fellowship and Research Bursary
- 1990 - 2003 Post-secondary scholarship, C. D. F. M. Huron-Wendat (Centre de développement de la formation et de la main-d'oeuvre Huron-Wendat)

Awards and Distinctions

- 2004 Health Canada student award (Dr. John Big Canoe Memorial Scholarship)
- 1999 Health Canada student award (Dr. John Big Canoe Memorial Scholarship)
- 1998 Health Canada student award (Dr. John Big Canoe Memorial Scholarship)

Professional Memberships

International Brain Research Organization (IBRO)
Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
Society for Neuroscience (SfN)
Vision Sciences Society (VSS)

Teaching Experience

- 1997 Introduction to Psychology (PSYO 1500)
Department of Psychology
Dalhousie University
- 1996 Sensory Neuroscience I: Vision (PSYO 3051)
Department of Psychology
Dalhousie University
- 1992 Psychophysiology I (BIO 12234)
School of Psychology
Laval University