

# CURRICULUM VITAE

## STEVEN W. THRELKELD

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### EDUCATION

Undergraduate	B.A. in Psychology, University of Portland, Portland, OR, 2003
Graduate	M.A. in Behavioral Neuroscience, Department of Psychology, University of Connecticut, Storrs, CT, 2006. Ph.D. in Behavioral Neuroscience, Department of Psychology, University of Connecticut, Storrs, CT, 2008.

### POSTGRADUATE TRAINING

Postdoctoral	Postdoctoral Research Fellow, Perinatal Brain Research, Women & Infants' Hospital, The Warren Alpert Medical School of Brown University Providence, RI, 2009 – Present
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### HONORS AND AWARDS

University of Connecticut, Behavioral Neuroscience Zarrow award, 2003  
University of Connecticut, Neuroscience Fellowship 2007, 2008  
University of Connecticut, Graduate School Doctoral Dissertation Fellowship 2008

### MEMBERSHIP IN SOCIETIES

Society for Neuroscience (SFN): Member from 2005 – Present

### PUBLICATIONS LIST

#### ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

Peiffer, A. M., McClure, M. M., **Threlkeld, S. W.**, Rosen, G. D., & Fitch, R. H., (2004). Severity of focal microgyria and associated rapid auditory processing deficits. *Neuroreport*, 15, 1923-1926.

McClure, M. M., **Threlkeld, S. W.**, Rosen, G. D., & Fitch, R. H., (2005). Auditory processing deficits in unilaterally and bilaterally injured hypoxic-ischemic rats.

- Neuroreport, 16, 1309-1312.
- McClure, M. M., **Threlkeld, S. W.**, & Fitch, R. H., (2006). The Effects of Erythropoietin on Auditory Processing Following Neonatal Hypoxic-Ischemic Injury. *Brain Research*, 1087(1): 190-5.
- McClure, M. M., **Threlkeld, S. W.**, Rosen, G. D., & Fitch, R. H., (2006). Rapid auditory processing and learning deficits in Rats with P1 versus P7 neonatal hypoxic-ischemic injury. *Behavioral Brain Research*, 172(1): 114-21.
- Threlkeld, S.W.**, McClure, M.M., Rosen, G.D., Fitch, R.H., (2006). Developmental Timeframes for Induction of Microgyria and Rapid Auditory Processing Deficits in the Rat. *Brain Research*, 1109(1): 203-9.
- McClure, M.M., **Threlkeld, S. W.**, & Fitch, R. H., (2007). Auditory processing and learning/memory following erythropoietin administration in neonatally hypoxic-ischemic injured rats. *Brain Research*, 1132(1): 203-9.
- Rosen, G.D., Bai, J., Wang, Y., Fiondella, C.G., **Threlkeld, S.W.**, Loturco, J.J., Galaburda, A.M., (2007). Disruption of neuronal migration by RNAi of *Dyx1c1* results in neocortical and hippocampal malformations. *Cerebral Cortex*, 17(11): 2562-72.
- Threlkeld, S.W.**, McClure, M. M., Bai, J., Wang, Y., LoTurco, J.J., Rosen, G.D., & Fitch, R. H., (2007). Developmental Disruptions and Behavioral Impairments in Rats Following *In Utero* RNAi of *Dyx1c1*. *Brain Research Bulletin*, 71(5): 508-14.
- Threlkeld, S.W.**, Rosen, G.D., Fitch, R.H., (2007). Age at developmental cortical injury differentially alters corpus callosum volume in the rat. *BMC Neuroscience*, 12; 8: 94.
- Fitch R.H., **Threlkeld, S.W.**, McClure, M.M., Peiffer, A.M., (2008). Use of a modified prepulse inhibition paradigm to assess complex auditory discrimination in rodents. *Brain Research Bulletin*, 76 (1-2): 1-7.
- Threlkeld, S.W.**, Penley, S.C., Rosen, G.D., Fitch, R.H., (2008). Detection of silent gaps in white noise following cortical deactivation in rats. *Neuroreport*, 19 (8): 893-8.
- Threlkeld, S.W.**, Hill, C.A., Rosen, G.D., Fitch, R.H., (2009). Early acoustic discrimination experience ameliorates auditory processing deficits in male rats with cortical developmental disruption. *International J. Devel. Neurosci.* 27(4), 321-328.
- Threlkeld, S.W.**, Hill, C.A., Cleary, C., Troung, D., Rosen, G.D., Fitch, R.H., (2009). Developmental learning impairments in a rodent model of nodular heterotopia. *J Neurodevelop Disord.* 1(3): 237-250.

#### PUBLICATIONS SUMVITTED OR IN PREPARATION

- Threlkeld S.W.**, Lynch J.L., Lynch K.M., Sadowska G., Stonstreet B.S., Banks W.A., (2009). Ovineproinflammatory cytokines cross the murine blood brain barrier by saturable transport. *In Preparation.*
- Cleary C.E., Hinman J.R., **Threlkeld S.W.**, Wang Y., Rosen G.D., Chrobak J.J., Fitch R.H. (2009). Persistent spatial working memory deficits in rats following in utero RNAi of *Dyx1c1*. *In Preparation.*
- Hill C.A., **Threlkeld S.W.**, Rosen G.D., Fitch R.H. (2009). Testosterone modulated sex differences in behavioral outcome following neonatal hypoxia ischemia in rats. *In Preparation.*

## ABSTRACTS

- Threlkeld, S.W.**, Truong, D.T., Hill, C.A., Cleary, C.E., Rosen, G.D., Fitch R.H. (2009). Effects of test experience and neocortical microgyria on spatial and non-spatial learning in rats. Abstract: Society for Neuroscence.
- Lynch, J.L., **Threlkeld, S.W.**, Lynch, K.M., Sadowska, G., Stonstreet, B.S., Banks, W.A., (2009). Ovine pro-inflammatory cytokines cross the murine blood brain barrier by saturable transport. Abstract: Society for Neuroscence.
- Threlkeld, S.W.**, Hill C.A., Cleary C., Rosen, G.D., Fitch, R.H., (2008). Embryonic methylazoxymethanol (MAM) exposure leads to rapid auditory discrimination and learning impairments in rats. Abstract: Society for Neuroscience.
- Hill, C.A., **Threlkeld, S.W.**, Rosen, G.D., Fitch, R.H., (2008). Testosterone modulated sex differences in behavioral outcome following neonatal hypoxia ischemia in rats. Abstract: Society for Neuroscience.
- Truong, D.T., Hill, C.A., Cleary, C.E., **Threlkeld, S.W.**, Wang, Y., LoTurco, J.J., Fitch, R.H., (2008). A knockout study of *dc2* in mice and its behavioral and neurological implications. Abstract: Society for Neuroscience.
- Cleary, C.E., Hinman, J.R., DiPinto, K., Malloy D., **Threlkeld, S.W.**, Yang, Y., Rosen, G.D., Chrobak, J.J., Fitch, R.H., (2008). Assessment of episodic memory performance following early interference with a dyslexia-risk gene (*Dyx1c1*) in male Sprague-Dawley rats. Abstract: Society for Neuroscience.
- Threlkeld, S.W.**, Hill, C.A., Rosen, G.D., Fitch, R.H., (2007). Effects of age, experience and microgyria on auditory processing in the rat. Abstract: Society for Neuroscience, 594.9.
- Hill, C.A., **Threlkeld, S.W.**, Rosen, G.D., Fitch, R.H., (2007). Sex differences in rapid auditory processing deficits associated with neonatal hypoxia-ischemia in rats. Abstract: Society for Neuroscience.
- Szeles, D.M., Hill, C.A., **Threlkeld, S.W.**, McClure, M.M., Fitch, R.H., (2007). Effects of experience on auditory processing deficits associated with neonatal hypoxia-ischemia in male rats. Abstract: Society for Neuroscience.
- Threlkeld, S.W.**, Penley, S.C., Rosen, G.D., Fitch, R.H., (2006). Silent gap detection thresholds in normal and developmentally brain-injured rats with functional deactivation of AI. Abstract: Society for Neuroscience.
- Rosen, G.D., Wang, Y., Paramasivam, M., Thomas, A., Bai, J., **Threlkeld, S.W.**, LoTurco, J.J., Galaburda, A.M., (2006). Postnatal analysis if the neocortex of rats embryonically transfected with RNAi targeted against candidate dyslexia susceptibility genes KIAA0319 and DCDC2. Abstract: Society for Neuroscience.
- Threlkeld, S.W.**, McClure, M. M., Bai, J., Wang, Y., Rosen, G.D., & Fitch, R. H. (2005). RNAi targeted *Dyx1c1* and associated rapid auditory processing deficits. Abstract: Society for Neuroscience.
- McClure, M. M., **Threlkeld, S. W.**, Rosen, G. D., & Fitch, R. H (2005). Rapid auditory processing deficits in rats with P1 versus P7 neonatal hypoxic-ischemic injury and the protective effects of erythropoietin. Abstract: Society for Neuroscience.

- Threlkeld, S.W.**, McClure, M.M., Peiffer, A.M., Rosen, G.D., Fitch, R.H., (2004). Developmental Timeframes for the Induction of Focal Cortical Anomalies and Associated Auditory Processing Deficits. Abstract, Society for Neuroscience.
- McClure, M. M., **Threlkeld, S. W.**, Rosen, G. D., & Fitch, R. H. (2004). Auditory Processing deficits in unilateral and bilateral HI rats. Abstract: Society for Neuroscience.
- Peiffer, A. M., McClure M. M., **Threlkeld S. W.**, Rosen G. D. & Fitch, R. H. (2004). MGN cellular changes associated with increased degree of cortical disruption. Abstract: Society for Neuroscience.

#### INVITED PRESENTATIONS

- Pediatric Research Colloquium, Women and Infants Hospital, Brown medical school, February 2009, Providence RI, Title: Maturation and experience-dependent improvements in auditory processing for rats with neocortical developmental disruption
- Pediatric Research Colloquium, Women and Infants Hospital, Brown medical school, June 2008, Providence RI, Title: Overlap and Insight from Genetic and Teratogenic Models of Developmental Learning Impairment in the Rat
- Guest presenter: International Society for Behavioral Neuroscience, July 2006, Bath Spa University, Bath, UK, Title: Behavioral Impairments Following *In Utero* RNAi of *Dyx1c1* in the Rat

#### UNIVERSITY TEACHING ROLES

- Teaching Assistant, University of Connecticut, Lab in Physiological Psychology  
Spring Semester 2008
- Teaching Assistant, University of Connecticut, Introduction to Psychology Lab, Fall Semesters 2005, 2007, 2008