

Dr Thomas Theil
Selected publications

2013

Amaniti, E. M., Fu, C., Lewis, S., Saisani, M., Magnani, D., Mason, J. O. and Theil, T. (2013). Gli3 controls corticothalamic pathfinding by regulating development of the piriform cortex. *Cerebral Cortex*, doi: 10.1093/cercor/bht244.

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Hasenpusch-Theil, K., D. Magnani, E.-M. Amaniti, Han, L., Armstrong, D. and Theil, T (2012) Transcriptional analysis of Gli3 mutants identifies Wnt target genes in the developing hippocampus. *Cerebral Cortex*, doi: 10.1093/cercor/bhr365

2010

Magnani D, Hasenpusch-Theil K, Jacobs EC, Campagnoni AT, Price DJ, Theil T The Gli3 Hypomorphic Mutation Pdn Causes Selective Impairment in the Growth, Patterning, and Axon Guidance Capability of the Lateral Ganglionic Eminence. *Journal of Neuroscience* 30:13883-13894.

2009

Szabo NE, Zhao TY, Cankaya M, Theil T, Zhou XL & Alvarez-Bolado G. (2009). Role of Neuroepithelial Sonic hedgehog in Hypothalamic Patterning. *Journal of Neuroscience* 29, 6989-7002.

2008

Friedrichs M, Larralde O, Skutella T, Theil T (2008) Lamination of the cerebral cortex is disturbed in Gli3 mutant mice. *Dev Biol* 318: 203-214

Willaredt MA, Hasenpusch-Theil K, Gardner HA, Kitanovic I, Hirschfeld-Warneken VC, Gojak CP, Gorgas K, Bradford CL, Spatz J, Wolf S et al (2008) A crucial role for primary cilia in cortical morphogenesis. *J Neurosci* 28: 12887-12900

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Theil T (2005) Gli3 is required for the specification and differentiation of preplate neurons. *Dev Biol* 286: 559-571

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Kuschel S, R  ther U, Theil T (2003) A disrupted balance between Bmp/Wnt and Fgf signaling underlies the ventralisation of the Gli3 mutant telencephalon. *Dev Biol* 260: 484-495

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Hurtado-Vacalla C and Theil T (2002) Cst, a novel mouse gene related to *Drosophila* Castor, exhibits dynamic expression patterns during neurogenesis and heart development. *Mech Dev* 118: 265-268

Theil T, Aydin S, Koch S, Grotewold L, Rütther U (2002) Wnt and Bmp signalling cooperatively regulate graded Emx2 expression in the dorsal telencephalon. *Development* 129: 3045-3054

Theil T, Ariza-McNaughton L, Manzanares M, Brodie J, Krumlauf R, Wilkinson DG (2002) Requirement for downregulation of kreisler during late patterning of the hindbrain. *Development* 129: 1477-1485

1999

Theil T, Alvarez-Bolado G, Walter A, Rütther U (1999) Gli3 is required for Emx gene expression during dorsal telencephalon development. *Development* 126: 3561-3571

1998

Theil T, Frain M, Gilardi-Hebenstreit P, Flenniken A, Charnay P, Wilkinson DG (1998) Segmental expression of the EphA4 (Sek-1) receptor tyrosine kinase in the hindbrain is under direct transcriptional control of Krox-20. *Development* 125: 443-452

1993

Pongs O, Lindemeier J, Zhu XR, Theil T, Engelkamp D, Krah-Jentgens I, Lambrecht HG, Koch KW, Schwemer J, Rivosecchi R et al (1993) Frequentin - a novel calcium-binding protein that modulates synaptic efficacy in the Drosophila nervous system. *Neuron* 11: 15-28