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# Angeliki Louvi

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## POSITIONS

- **Assistant Professor**, Departments of Neurosurgery and Neurobiology, Yale University School of Medicine
- **Member**, Program on Neurogenetics, Yale University School of Medicine
- **Member**, Interdepartmental Neuroscience Program, Yale University School of Medicine

## PAST POSITIONS

- **Associate Research Scientist**, Department of Neurosurgery, Yale University School of Medicine, 2004-2006
- **Research Associate**, Department of Neurobiology, University of Chicago, 2001-2004
- **Post-doctoral Fellow**, Department of Biology, Ecole Normale Supérieure, Paris, France 1997-2001

## EDUCATION

- **Ph.D.**, Genetics and Development, Columbia P&S, 1997
- **M.A.**, Genetics and Development, Columbia P&S, 1992
- **B.Sc.**, Biology, University of Athens, Greece, 1987

## GRANTS

- **Development of Choroid Plexus and the Blood-CSF Barrier**  
Principal Investigator R21 NS052718-01 (NIH/NINDS) 2005-2008
- **The Role of *SLITRK1* in Tourette and Related Disorders**  
Co-Investigator (PI: Matthew State) R01 NS056276-01 (NIH/NINDS) 2006-2011

## ARTICLES

1. **Louvi, A.**, and Tsililou, S. G. (1992). A cDNA clone encoding the ATP/ADP translocase of *Drosophila melanogaster* shows a high degree of similarity with the mammalian ADP/ATP translocases. *J. Mol. Evol.* 35, 44-50.
2. Filson, A. J., **Louvi, A.**, Efstratiadis, A., and Robertson, E. J. (1993). Rescue of the T-associated maternal effect in mice carrying null mutations in *Igf-2* and *Igf2r*, two reciprocally imprinted genes. *Development* 118, 731-736.
3. Morrione, A., Valentinis, B., Xu, S., Yumet, G., **Louvi, A.**, Efstratiadis, A., and Baserga, R. (1997). Insulin-like growth factor II stimulates cell proliferation through the insulin receptor. *Proc. Natl. Acad. Sci. USA* 94, 3777-3782.

4. **Louvi, A.**, Accili, D., and Efstratiadis, A. (1997). Growth-promoting interaction of IGF-II with the insulin receptor during mouse embryonic development. *Dev. Biol.* 189, 33-48.
5. **Louvi, A.**, and Wassef, M. (2000). Ectopic Engrailed-1 expression in the dorsal midline causes cell death, abnormal differentiation of circumventricular organs and errors in axonal pathfinding. *Development* 127, 4061-4071.
6. McClintock, J.M., Jozefowicz, C., Assimacopoulos, S., Grove, E.A., **Louvi, A.**, and Prince, V.E. (2003). Conserved expression of *Hoxa1* in neurons at the ventral forebrain/midbrain boundary of vertebrates. *Dev. Genes Evol.* 213, 399-406.
7. **Louvi, A.**, Alexandre, P., Métin, C., Wurst, W., and Wassef, M. (2003). The isthmic neuroepithelium is essential for cerebellar midline fusion. *Development* 130, 5319-5330.
8. **Louvi, A.\***, Sisodia, S.S., and Grove, E.A. (2004). Presenilin 1 in migration and morphogenesis in the central nervous system. *Development* 131, 3093-3105.  
\*corresponding author
9. Abelson, J. F., Kwan K. Y., O'Roak B. J., Baek, D. Y., Stillman, A. A., Morgan, T. M., Mathews, C. A., Pauls, D. L., Rasin, M.-R., Gunel, M., Davis, N. R., Ercan-Sencicek, A. G., Guez, D. H., Spertus, J. A., Leckman, J. F., Dure, L. S., Kurlan, R., Singer, H. S., Gilbert, D. L., Farhi, A., **Louvi, A.**, Lifton, R.P., Sestan, N., and State, M.W. (2005). Sequence Variants in *SLITRK1* Are Associated with Tourette Syndrome. *Science* 310, 317-320.
10. Kahle, K. T., Rinehart, J., de los Heros, P., **Louvi, A.**, Meade, P., Vazquez, N., Hebert, S. C., Gamba, G., Gimenez, I., and Lifton, R. P. (2005). WNK3 modulates transport of Cl<sup>-</sup> in and out of cells: Implications for control of cell volume and neuronal excitability. *Proc. Natl. Acad. Sci. USA.* 102, 16783-16788.
11. Seker, A., Pricola, K. L., Shin, D., Guclu, B., Ozturk, A. K., **Louvi, A.**, and Gunel, M. (2005). CCM2 expression parallels that of CCM1. *Stroke* 37, 518-523.
12. **Louvi, A.\***, Yoshida, M. and Grove, E.A. (2007). The derivatives of the *Wnt3a* lineage in the central nervous system. *Journal of Comparative Neurology* 504, 550-569.  
\*corresponding author
13. Bakkaloglu, B.\*, O'Roak, B.J.\*, **Louvi, A.**, Gupta, A.R., Abelson, J.F., Morgan, T.T., Chawarska, K., Klin, A., Ercan-Sencicek, A. G., Stillman, A.A., Tanriover, G., Abrahams, B.S., Duvall, J.A., Robbins, E.M., Geschwind, D.H., Biederer, T., Gunel, M., Lifton, R.P. and State, M.W. (2008). Molecular cytogenetic analysis and re-sequencing of *Contactin Associated Protein-like 2* in Autism Spectrum Disorders. *Am. J. Hum. Genet.* 82, 165-173.  
\*equal contribution
14. Arboleda-Velasquez, J. F.\*, Zhou, Z.\*, Shin, H. K., **Louvi, A.**, Kim, H. H., Savitz, S.I., Liao, J. K., Salomone, S., Ayata, C., Moskowitz, M. A., and Artavanis-Tsakonas, S. (2008). Linking Notch signaling to ischemic stroke. *Proc. Natl. Acad. Sci. USA.* 105, 4856-4861.  
\*equal contribution
15. Tanriover, G., Boylan, A. J., DiLuna, M. L., Pricola, K. L., **Louvi, A.**, and Gunel, M. (2008). *PDCD10*, the gene mutated in Cerebral Cavernous Malformation 3 (CCM3) is expressed in the neurovascular unit. *Neurosurgery* 62, 930-938.

16. Shibazaki, S.\*, Yu, Z.\*, Nishio, S.\*, Tian, X., Thomson, R. B., Mitobe, M., **Louvi, A.**, Velazquez, H., Ishibe, S., Cantley, L. G., Igarashi, P., Somlo, S. (2008). Cyst formation and activation of the extracellular regulated kinase pathway after kidney specific inactivation of *Pkd1*. *Hum. Mol. Genet.* 17, 1505-1516.  
\*equal contribution
17. Stillman, A., Krsnik, Z., Sun, J., Rasin, M.-R., State, M. W., Sestan, N., and **Louvi, A.** (2009). Developmentally regulated and evolutionarily conserved expression of SLITRK1 in brain circuits implicated in Tourette syndrome. *Journal of Comparative Neurology*, 513:21-37.

#### REVIEWS

1. Narboux-Nême, N., **Louvi, A.**, Alexandre, P., and Wassef, M. (2005). Regionalization of the isthmic and cerebellar primordia. *Prog. Brain. Res.* 148, 29-36.
2. **Louvi, A.**, Arboleda-Velasquez, J., and Artavanis-Tsakonas, S. (2006). CADASIL: a critical look at a Notch disease. *Developmental Neuroscience* 28, 5-12.
3. **Louvi, A.** and Artavanis-Tsakonas, S. (2006). Notch signalling in vertebrate neural development. *Nature Reviews Neuroscience* 7, 93-102.

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