

CURRICULUM VITAE

Michael Wagner

Research Assistant Professor
State University of New York Downstate Medical Center

Mailing Address

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Education

Bachelor of Science in Chemistry, Georgetown University, May 1976.

Non-degree post baccalaureate, Biology/Biochemistry, Columbia University, 1979

Doctorate of Genetics, University of Pennsylvania, 1984

Research Experience

Research Assistant Professor, Department of Cell Biology, State University of New York Downstate Medical Center, September 1994 – present.

Postdoctoral Research Scientist to Associate Research Scientist, Center for Neurobiology and Behavior, Columbia University, 1991 – 1994

Postdoctoral Fellow, Howard Hughes Medical Institute, Columbia University, 1988 – 1991

Postdoctoral Fellow to Postdoctoral Research Associate, Laboratory of Molecular and Cellular Neuroscience, The Rockefeller University, 1984 – 1988

Graduate Student, University of Pennsylvania (Institute for Cancer Research, Fox Chase Cancer Center) 1979 – 1984

Research Technician, Department of Pathology, Columbia University, 1977 – 1979

Research Technician, National Cancer Institute, Frederick Cancer Research Center, 1976

Teaching Experience:

Graduate-level lecture/discussion on developmental biology in Graduate School Molecular and Cellular Biology program

Medical school lectures (cardiovascular histology, stem cells and Regenerative Medicine)

Faculty facilitator in medical school Case-Based Learning curriculum

Michael Wagner, Ph.D.

Organized and ran graduate student journal club

Fellowships:

Muscular Dystrophy Association Postdoctoral Fellowship, 1985-1987

Howard Hughes Medical Institute postdoctoral fellow, 1988-1991

Columbia University Cancer Research postdoctoral training grant, 1991-1992

Columbia University, Center for Neurobiology and Behavior postdoctoral training grant, 1992-1994

Publications:

1. **Wagner, M.** and Siddiqui, M.A.Q. Signaling networks regulating cardiac myocyte survival and death. *Curr. Opin. In Investigational Drugs.* 2009; 10(9):928-37.
2. Espinoza-Derout, J., **Wagner, M.**, Lazar, J., Salciccioli, S., Chaqour, B. and Siddiqui, M.A.Q. Positive Transcription Elongation Factor b Activity in Compensatory Myocardial Hypertrophy is Regulated by Cardiac Lineage Protein-1. *Circulation Res.* 2009; 104(12):1347-54.
3. Liao WL, Tsai HC, Wang HF, Chang J, Lu KM, Wu HL, Lee YC, Tsai TF, Takahashi H, **Wagner M**, Ghyselinck NB, Chambon P, Liu FC. Modular patterning of structure and function of the striatum by retinoid receptor signaling. *Proc Natl Acad Sci U S A.* 2008; 105(18):6765-70.
4. **Wagner M** and Siddiqui MAQ. Signal Transduction in Early Heart Development (I): Cardiogenic Induction and Heart Tube Formation. *Exp. Biol. Med.* 2007; 232(7):852-65.
5. **Wagner M** and Siddiqui MAQ. Signal Transduction in Early Heart Development (II): Ventricular Chamber Specification, Trabeculation and Heart Valve Formation. *Exp. Biol. Med.* 2007; 232(7):866-80.
6. Espinoza-Derout J, **Wagner M**, Shahmiri K, Mascarenho E, Chaqour B, Siddiqui MAQ. Pivotal role of cardiac lineage protein-1 (CLP-1) in transcriptional elongation factor P-TEFb complex formation in cardiac hypertrophy. *Cardiovasc Res.* 2007; 75(1):129-38.
7. Liao WL, Wang HF, Tsai HC, Chambon P, **Wagner M**, Kakizuka A, Liu FC. Retinoid signaling competence and RARbeta-mediated gene regulation in the developing mammalian telencephalon. *Dev Dyn.* 2005; 232(4):887-900.
8. Huang, F., **Wagner, M.**, Siddiqui, M.A.Q. Ablation of the CLP-1 gene leads to down-regulation of the HAND1 gene and abnormality of the left ventricle of the heart and fetal death. *Mech. Dev.* 2004; 121:559-572.
9. Miles K, **Wagner M**. Overexpression of nPKC theta is inhibitory for agrin-induced nicotinic acetylcholine receptor clustering in C2C12 myotubes. *J Neurosci Res.* 2003; 71(2):188-95.
10. Huang F, **Wagner M**, Siddiqui M.A.Q. Structure, expression, and functional characterization of the mouse CLP-1 gene. *Gene* 2002; 292: 245-259.
11. **Wagner, M.**, Miles, K., and Siddiqui, M.A.Q. Early Developmental Expression Pattern of Retinoblastoma Tumor Suppressor mRNA Indicates a Role in the Epithelial-to-Mesenchyme Transformation of Endocardial Cushion Cells. *Dev. Dynamics* 2001; 220:198-211.
12. Miles, K. and **Wagner, M.** Overexpression of nPKC-theta is permissive for myogenic differentiation. *J. Cell. Biochem.* 2000; 79:71-79.
13. Chandrasekaran, V., Zhai, Y., **Wagner, M.**, Kaplan, P.L., Napoli, J.L., and Higgins, D. Retinoic Acid Regulates the Morphological Development of Sympathetic Neurons. *J. Neurobiol.* 2000; 42:383-393.
14. **Wagner MA**. Use of reporter cells to study endogenous retinoid sources in embryonic tissues. *Methods*

Enzymol. 1997; 282:98-107.

15. Ang, H.L., Detour, L., Knight, M., **Wagner, M.**, and Duester, G.) Expression Patterns of Class I and Class IV Alcohol Dehydrogenase Genes in Developing Epithelia Suggest a Role for Alcohol Dehydrogenase in Local Retinoic Acid Synthesis. *Alcoholism. Clin. And Exp. Res.* 1996; 20:1050-1059.
16. Kelley, M.W., X-M. Xu, **M. A. Wagner**, M.E. Warchol, and J.T. Corwin. The developing organ of Corti contains retinoic acid and forms supernumerary hair cells in response to exogenous retinoic acid in culture. *Development* 1993; 119:1041-1053.
17. **Wagner, M.**, B. Han, and T.M. Jessell. Regional differences in retinoid release from embryonic neural tissue detected by an in vitro reporter assay. *Development* 1992; 116:55-66.
18. McCaffery, P., M. Lee, **M. A. Wagner**, N. E. Sladek, and U. C. Drager. Asymmetrical retinoic acid synthesis in the dorsoventral axis of the retina. *Development* 1992; 115:371-382.
19. **Wagner, M.**, C. Thaller, T. Jessell, and G. Eichele. Polarizing activity and retinoid synthesis in the floor plate of the neural tube. *Nature* 1990; 345: 819-822.
20. Sudhof, T. C., A. J. Czernik, H-T. Kao, K. Takei, P.A. Johnston, A. Horiuchi, S. D. Kanazir, **M. A. Wagner**, M. S. Perin, P. De Camilli, and P. Greengard. The Synapsins: Mosaics of shared and unique domains in a family of synaptic vesicle phosphoproteins. *Science* 1989; 245:1474-1480.
21. **Wagner, M.** A consideration of the origin of processed pseudogenes. *Trends in Genetics* 1986; 2:134-137.
22. **Wagner, M.** and R.P. Perry. Characterization of the multigene family encoding the mouse S16 ribosomal protein: Strategy for distinguishing an expressed gene from its processed pseudogene counterparts by an analysis of total genomic DNA. *Mol. Cell. Biol.* 1985; 5:3560-3576.

Book Chapters

23. M.A.Q. Siddiqui, **Michael Wagner**, Jorge Espinoza-Derout, Facan Huang, Daniel Beckles, and Eduardo Mascareno (In press, 2011). CLP-1-Mediated Transcriptional Control of Hypertrophic Gene Programs Underlying Cardiac Hypertrophy. In Genes and Cardiovascular Function, Osterdal, B., Nagao, M. and Dhalla, N., eds. Springer, New York, New York.
24. Contributing editor: "Signal Transduction Events." In Medical Cell Biology, 3rd edition, S.R. Goodman, ed. Academic Press, 2007.
25. **Wagner, M.**, Shafiq, S., Mascareno, E., and Siddiqui, M.A.Q. (2001) Signal Transduction in Myofibrillogenesis, Cell Growth, and Hypertrophy. In Myofibrillogenesis, Springer-Verlag New York, Inc., New York, p. 143-152, D.K. Dube, ed.
26. **Wagner, M.**, Mascareno, E., and Siddiqui, M.A.Q. (1999) Cardiac Hypertrophy: Signal Transduction, Transcriptional Adaptation, and Altered Growth Control. In Heart in Stress, Ann. N.Y. Acad. Sci. 874, 1-10.
27. Ghatpande, S., **Wagner, M.**, and Siddiqui, M.A.Q. (1998). Molecular Adaptation of Transcriptional Apparatus in Cardiac Hypertrophy and Embryonic Development. In Advances in Organ Biology, Vol. 6, Myocardial Preservation and Cellular Adaptation," JAI Press, Stamford, Connecticut, p. 145-153, E.E. Bittar and D.K. Das, eds.
28. **Wagner, M.** (1998) Detection and measurement of retinoic acid production by isolated tissues using retinoic acid-sensitive reporter cell lines. In Methods in Molecular Biology, Retinoid Protocols. The Humana Press Inc. Vol 89, p. 41-53.