Noritaka Adachi

The University of Chicago Department of Organismal Biology and Anatomy 1025 E 57th Street, Culver 108, 60637

TEL: (773) 702-5785

Email: adasaurus@uchicago.edu

Education

- PhD. KOBE university, Graduate School of Science, Department of Biology, Kobe, Japan. March 25, 2012.
- M.S. WASEDA university, Graduate School of Advanced Science and Engineering, Department of Integrative Bioscience and Biomedical Engineering, Tokyo, Japan. March 31, 2009.
- B.A. WASEDA university, Faculty of Education and Integrated Arts and Sciences, Biology Major, Tokyo, Japan. March 31, 2007.

Laboratory experience

2013-Present Postdoctoral Researcher The University of Chicago, Department of Organismal Biology and Anatomy Laboratory of Professor Neil Shubin

2009-2013 Graduate Student, Postdoctoral Researcher KOBE university, Department of Biology Laboratory of Professor Shigeru Kuratani

2007-2009 Undergraduate Student, Graduate Student WASEDA university, Department of Integrative Bioscience and Biomedical Engineering, Faculty of Education and Integrated Arts and Sciences Laboratory of Professor Nakamura Masahisa

Grants and Awards

The Naito Foundation Subsidy for Dispatch of Young Researchers Abroad Winter period 2010 (JPY 30,000)

Peer-Reviewed Publications

Sugahara F, Murakami Y, **Adachi N**, and Kuratani S. Evolution of the regionalization and patterning of the vertebrate telencephalon: what can we learn from cyclostomes? *Current Opinion in Genetics & Development* 2013.

Takechi M, **Adachi N**, Hirai T, Kuratani S, and Kuraku S. The Dlx genes as clues to vertebrate genomics and craniofacial evolution. *Seminars in Cell & Developmental Biology* 2013.

Pascual-Anaya J, Adachi N, Álvarez S, Kuratani S, D'Aniello S, and Garcia-

Fernàndez J. Broken colinearity of the amphioxus Hox cluster. *EvoDevo* 3:28. 2012.

Adachi N, Takechi M, Hirai T, and Kuratani S. Development of head and trunk mesoderm in the dogfish, *Scyliorhinus torazame*. II. Comparison of gene expression between the head mesoderm and somites with reference to the origin of the vertebrate head. *Evolution & Development* 14:3. 257-278. 2012.

Adachi N and Kuratani S. Development of head and trunk mesoderm in the dogfish, *Scyliorhinus torazame*. I. Embryology and morphology of the head cavities and related structures. *Evolution & Development* 14:3. 234-256. 2012.

Kuratani S, **Adachi N**, Wada N, Oisi Y, and Sugahara F. Developmental and evolutionary significance of the mandibular arch and prechordal/ premandibular cranium in vertebrates: revising the heterotopy scenario of gnathostome jaw evolution. *Journal of Anatomy* 220. 1-16. 2012.

Takechi M, Takeuchi M, Ota K G, Nishimura O, Mochii M, Itomi K, Fujimoto S, **Adachi N**, Takahashi M, Tarui H, Okabe M, Aizawa S, and Kuratani S. Overview of the transcriptome profiles identified in hagfish, shark, and bichir: current issues arising from some nonmodel vertebrate taxa. *J. Exp. Zool. B (Mol. Dev. Evol.)* 316: 526-546. 2011.

Saotome K, Hayashi K, **Adachi N**, Nakamura Y, and Nakamura M. Isolation and characterization of Vasa in the frog *Rana rugosa*. *J. Exp. Zool. A* 313: 452-459. 2010.

Public Presentations

Adachi N and Kuratani S. The evolution of vertebrate head muscles and head segmentation problem. The 14th Annual Meeting for the Society of Evolutionary Studies, Japan, Tokyo, Japan, August, 2010. Oral presentation.

Adachi N and Kuratani S. The head cavity and the trunk somite are a distinct type of mesoderm. The 20th CDB Meeting, Molecular Bases for Evolution of Complex Traits, Kobe, Japan, February, 2011. Poster Presentation.

Adachi N and Kuratani S. Molecular and morphological development of the shark head cavity. SICB 2011 Annual meeting, Salt lake city, USA, January, 2011. Oral presentation.

Adachi N and Kuratani S. The development of vertebrate head mesoderm. The 81th Annual Meeting of the Zoological Society of Japan, Tokyo, Japan,

September, 2010. Oral Presentation.

Adachi N and Kuratani S. The evolution of vertebrate head mesoderm. The 12th Annual Meeting for the Society of Evolutionary Studies, Japan, Tokyo, Japan, August, 2010. Poster Presentation.

Adachi N and Kuratani S. Is the Shark Head Cavity Homologous with the Somite? CDB Symposium 2010, Frontiers in Organogenesis, Kobe, Japan, March, 2010. Poster Presentation.

Professional experience

DNA and RNA extraction and cloning. Western blot, 2DE, MALDI-TOF-MS and HPLC. Paraffin, frozen and vibratome sectioning. Section and whole mount in situ hybridization, immnohistochemistry, and morphological analysis. Shark embryo handling and labeling experiment.