

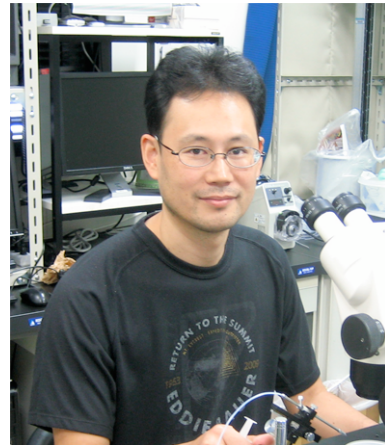
# Nobuhiko Miyasaka

## Position:

Deputy Laboratory Head  
Laboratory for Neurobiology of Synapse  
RIKEN Brain Science Institute

## Address:

2-1 Hirosawa, Wako, Saitama 351-0198, Japan  
Phone: +81-48-467-9674  
Fax: +81-48-467-9689  
E-mail: [miyasaka@brain.riken.jp](mailto:miyasaka@brain.riken.jp)



## Personal details:

Date of birth: September 12, 1968  
Place of birth: Ibaraki, Japan  
Nationality: Japanese

## Education:

- 1997 Ph.D. in Pharmaceutical Sciences from Hokkaido University, Japan. Work supervised by Professor Kenzo Kurihara and Dr. Ichiro Matsuoka.  
Dissertation: "Roles of basic fibroblast growth factor in the regulation of neural stem cell differentiation"
- 1994 M.Sc. in Pharmaceutical Sciences from Hokkaido University, Japan. Work supervised by Professor Kenzo Kurihara and Dr. Ichiro Matsuoka.
- 1992 B.Sc. in Pharmaceutical Sciences from Hokkaido University, Japan. Work supervised by Professor Kenzo Kurihara and Dr. Ichiro Matsuoka.

## Professional experience:

- 2009-present Deputy Laboratory Head at RIKEN Brain Science Institute, working with Dr. Yoshihiro Yoshihara
- 2000-2008 Research Scientist at RIKEN Brain Science Institute, working with Dr. Yoshihiro Yoshihara
- 1997-2000 Post-doctoral Fellow at Mitsubishi Kagaku Institute of Life Sciences, working with Dr. Yasuyoshi Arimatsu

## Membership of academic societies:

The Japan Neuroscience Society  
The Molecular Biology Society of Japan  
The Japanese Association for the Study of Taste and Smell  
Society for Neuroscience, USA

## **Publications:**

### **Journal articles (peer reviewed)**

(\*corresponding author)

Miyasaka N, Morimoto K, Tsubokawa T, Higashijima S, Okamoto H, \*Yoshihara Y. (2009) From the olfactory bulb to higher brain centers: genetic visualization of secondary olfactory pathways in zebrafish. *J. Neurosci.* 29: 4756-4767.

Koide T, Miyasaka N, Morimoto K, Asakawa K, Urasaki A, Kawakami K, \*Yoshihara Y. (2009) Olfactory neural circuitry for attraction to amino acids revealed by transposon-mediated gene trap approach in zebrafish. *Proc. Natl. Acad. Sci. USA* 106: 9884-9889.

\*Miyasaka N, Knaut H, Yoshihara Y. (2007) Cxcl12/Cxcr4 chemokine signaling is required for placode assembly and sensory axon pathfinding in the zebrafish olfactory system. *Development* 134: 2459-2468.

Sato Y, Miyasaka N, \*Yoshihara Y. (2007) Hierarchical regulation of odorant receptor gene choice and subsequent axonal projection of olfactory sensory neurons in zebrafish. *J. Neurosci.* 27:1606-1615.

Sato Y, Miyasaka N, \*Yoshihara Y. (2005) Mutually exclusive glomerular innervation by two distinct types of olfactory sensory neurons revealed in transgenic zebrafish. *J. Neurosci.* 25: 4889-4897.

Miyasaka N, Sato Y, Yeo SY, Hutson LD, Chien CB, Okamoto H, \*Yoshihara Y. (2005) Robo2 is required for establishment of a precise glomerular map in the zebrafish olfactory system. *Development* 132: 1283-1293.

\*Uratani Y, Takiguchi-Hayashi K, Miyasaka N, Sato M, Jin M, Arimatsu Y. (2000) Latexin, a carboxypeptidase A inhibitor, is expressed in rat peritoneal mast cells and is associated with granular structures distinct from secretory granules and lysosomes. *Biochem. J.* 346:817-826.

Miyasaka N, \*Matsuoka I. (2000) Identification of basic fibroblast growth factor-responsive genes by mRNA-differential display in an immortalized neural stem cell line. *Biol. Pharm. Bull.* 23: 349-351.

\*Miyasaka N, Arimatsu Y, Takiguchi-Hayashi K. (1999) Foreign gene expression in an organotypic culture of cortical anlage after *in vivo* electroporation. *NeuroReport* 10:2319-2323.

\*Miyasaka N, Hatanaka Y, Jin M, Arimatsu Y. (1999) Genomic organization and regulatory elements of the rat latexin gene, which is expressed in a cell type-specific manner in both central and peripheral nervous systems. *Mol. Brain Res.* 69:62-72.

Miyasaka N, \*Matsuoka I, Kurihara K. (1997) An immortalized septal cell line that expresses trkA mRNA in response to basic fibroblast growth factor. *Neurochem. Int.* 31:557-562.

### **Conference paper (peer reviewed)**

\*Miyasaka N, Sato Y, Yoshihara Y. (2005) Axon guidance of olfactory sensory neurons in zebrafish. *Chem. Senses* 30 (suppl 1): i92-i93.

## **Presentations:**

### **Invited presentations**

Miyasaka N, Sato Y, Yoshihara Y. Deciphering the molecular basis of neural circuit development in the zebrafish olfactory system. The 4<sup>th</sup> International Symposium on Molecular and Neural Mechanisms of Taste and Olfactory Perception, 2006, Fukuoka, Japan

Miyasaka N, Sato Y, Yoshihara Y. Molecular and Genetic Approaches to the Zebrafish Olfactory System. Max-Planck-Institute for Medical Research, 2005, Heidelberg, Germany

Miyasaka N, Sato Y, Yoshihara Y. Axon guidance of olfactory sensory neurons in zebrafish. The 14<sup>th</sup> International Symposium on Olfaction and Taste (ISOT), 2004, Kyoto, Japan