



KUDO Hideaki

(born in 1968)

Associate Professor in
Laboratory of Strategic Studies on Marine
Bioresource Conservation and Management
(**Laboratory of Salmonology**)

E-mail: hidea-k@fish.hokudai.ac.jp
H.P.: http://web.mac.com/hidea_k
Tel. +81-138-40-5602

Education History

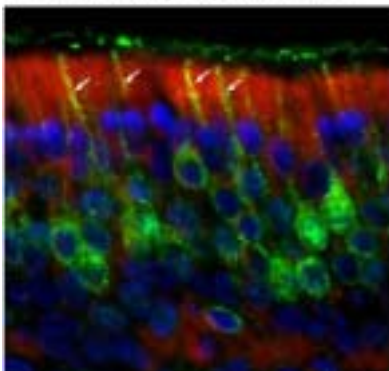
- Bachelor of Fisheries Sciences, Hokkaido University, 1991
- Doctor of Fisheries Sciences, Hokkaido University, 1996

SUBJECT: Salmonology, Fish Physiology, Fish Ecophysiology, Molecular Morphology

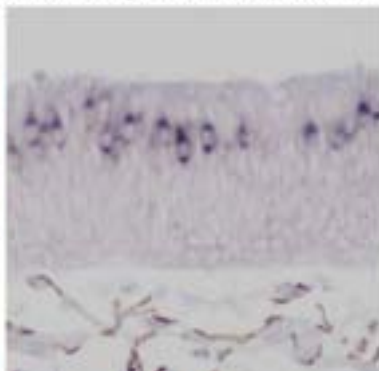
SPECIALTY: Mechanism of salmon migration and olfaction

CURRENT RESEARCH TOPICS:

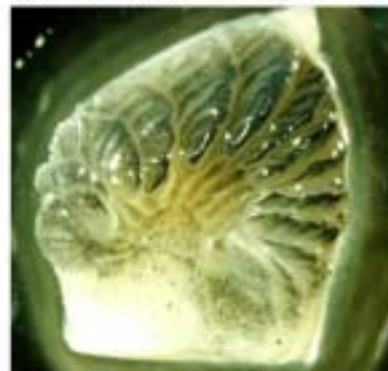
Function of xenobiotic
metabolizing molecules
in olfactory epithelium



Characterization and
expression of salmon
olfactory marker protein



Histological analysis of
olfactory epithelium
during salmon migration



SELECTED PUBLICATIONS:

1. Kudo, H., Tsuneyoshi, Y., Nagae, M., Adachi, S., Yamauchi, K., Ueda, H., and Kawamura, H. Detection of thyroid hormone receptors in the olfactory system and brain of wild masu salmon, *Oncorhynchus masou* (Brevoort), during smolting by *in vitro* autoradiography. *Aquacult. Fish. Manag.* 25, Suppl. 2: 171-182 (1994).
2. Kudo, H., Hyodo, S., Ueda, H., Hiroi, O., Aida, K., Urano, A., and Yamauchi, K. Cytophysiology of gonadotropin-releasing hormone neurons in chum salmon (*Oncorhynchus keta*) forebrain before and after upstream migration. *Cell Tissue Res.*, 284: 261-267 (1996).
3. Kudo, H., Ueda, H., Mochida, K., Adachi, S., Hara, A., Nagasawa, H., Doi, Y., Fujimoto, S., and Yamauchi, K. Salmonid olfactory system-specific protein (N24) exhibits glutathione *S*-transferase class pi-like structure. *J. Neurochem.*, 72: 1344-1352 (1999).
4. Kudo, H., Doi, Y., Nishino, T., Nara, S., Hamasaki, K., and Fujimoto, S. Dietary zinc deficiency decreases glutathione *S*-transferase expression in the rat olfactory epithelium. *J. Nutr.*, 130: 38-44 (2000).
5. Mochida, K., Matsubara, T., Kudo, H., Andoh, T., Ueda, H., Adachi, S., and Yamauchi, K. Molecular cloning and immunohistochemical localization of ubiquitin C-Terminal hydrolase expressed in testis of a teleost, the Nile Tilapia, *Oreochromis niloticus*. *J. Exp. Zool.*, 293: 368-383 (2002).
6. Yanagi, S., Kudo, H., Doi, Y., Yamauchi, K., and Ueda, H. Immunohistochemical demonstration of salmon olfactory glutathione *S*-transferase pi (N24) in the olfactory system of lacustrine sockeye salmon during ontogenesis and cell proliferation. *Anat. Embryol.*, 208: 231-238 (2004).
7. Nagata, T., Kudo, H., Nishino, T., Doi, Y., Itoh, H., and Fujimoto, S. Increased immunoreactivities against endothelin-converting enzyme-1 and monocyte chemoattractant protein-1 in hepatic stellate cells of rat fibrous liver induced by thioacetamide. *Med. Mol. Morphol.*, 38: 161-172 (2005).