Experimental Animal Model for Human Disease

1. Staffs (April, 2010)

Professor	Masami Kanai-Azuma
Assistant Professor	Shu Endo
	Mami Uemura

2. Research Subject

1) ***Sox17*** function for the foregut endoderm development.
(Etiology – Mouse Hepatitis)
2) The functional analysis of ***SoxF*** group
3) Mechanisms of bile duct development

3. Publications

Original Articles

1. **Sox17-dependent gene expression and early heart and gut development in Sox17-deficient mouse embryos.**
Pfister S, Jones VJ, Power M, Truisi GL, Khoo PL, Steiner KA, Kanai-Azuma M, Kanai Y, Tam PP, Loebel DA., Int J Dev Biol, 55, 45-58, 2011
2. **Proteomic analysis of two types of exosomes in human whole saliva.**
Ogawa Y, Miura Y, Harazono A, Kanai-Azuma M, Akimoto Y, Kawakami H, Yamaguchi T, Toda T, Endo T, Tsubuki M, Yanoshita R., Biol Pharm Bull. 34,13-23, 2011
3. **Maternal-effect gene Ces5/Ooep/Moep19/Floped is essential for oocyte cytoplasmic lattice formation and embryonic development at the maternal-zygotic stage transition.**
Tashiro F, Kanai-Azuma M, Miyazaki S, Kato M, Tanaka T, Toyoda S, Yamato E, Kawakami H, Miyazaki T, Miyazaki J. Genes Cells, 15, 813-828 , 2010
4. **Expression and function of mouse Sox17 gene in the specification of gallbladder/bile-duct progenitors during early foregut morphogenesis.**
Uemura M, Hara K, Shitara H, Ishii R, Tsunekawa N, Miura Y, Kurohmaru M, Taya C, Yonekawa H, Kanai-Azuma M, Kanai Y. Biochem Biophys Res Commun, 391, 357-363, 2010

Books

1. Masami Kanai-Azuma (Translation), 『Junqueira's Histology third edition』, Section6, Tokyo, Maruzen, pp.117-122, 2011 January

Conference Paper Index

1. Kyoko Harikae[1], Shogo Matoba[1], Ryuji Hiramatsu[1], Masami Kanai-Azuma[2], Naoaki Tsunekawa[1], Masamichi Kurohmaru[1], Yoshiakira Kanai[1]([1]Department of Veterinary Anatomy, The University of Tokyo, [2]Center of Experimental Animals, Tokyo Medical and Dental University) SRY-dependent inducibility of SOX9 expression in developing mouse ovaries: A sexually bipotential population of granulose cells and its contribution to sexual plasticity in ovarian follicles. 43rd Annual Meeting for the Japanese Society of Developmental Biologists, Kyoto, June 20 -23, 2010.
2. Mami Uemura[1], Kenshiro Hara[2], Hiroshi Shitara[3], Rie Ishii[3], Naoki Tsunekawa[1], Yutarou Miura[1], Toshime Igarashi[1], Masamichi Kurohmaru[1], Chouji Taya*[3], Hiromichi Yonekawa*[3], Masami Kanai-Azuma*[4], Yoshiakira Kanai*[1]. (Department of Veterinary Anatomy, The University of Tokyo*[1], National Institute for Basic Biology*[2], The Tokyo Metropolitan Institute of Medical Science*[3], Center for Experimental Animals, Tokyo Medical and Dental University*[4]): Spatiotemporal Specification of Gallbladder/bile duct progenitors in mouse foregut development. 43rd Annual Meeting for the Japanese Society of Developmental Biologists, Kyoto, June 20 -23, 2010.
3. Yoshimi Aiyama[1], Asuka Yoneda[1], Kyoko Harikae[1], Mayuko Inagaki[1], Masami kanai-Azuma[2], Naoki Tsunekawa[1], Masamichi Kurohmaru[1], Yoshiakira Kanai[1]. (Department of Veterinary Anatomy, The University of Tokyo[1], Center for Experimental Animals, Tokyo Medical and Dental University[2]): Potential roles epididymal ducts in the maintenance of mouse spermatogenesis. 43rd Annual Meeting for the Japanese Society of Developmental Biologists, Kyoto, June 20 -23, 2010.
4. Tomonori Fujiwara, Takefumi Kofuji, Tatsuya Mishima, Masami Kanai-Azuma and Kimio Akagawa. (Department of

Cell Physiology, Kyorin University School of Medicine, Radio Isotope Laboratory, Kyorin University School of Medicine, Department of Anatomy, Kyorin University School of Medicine.):HPC-1/STX1A and STX1B might have distinct roles in neuronal function. 53rd Annual Meeting of the Japanese Society for Neurochemistry, Kobe Convention Center, September 2 - 4, 2010