

動物実験施設利用者研究業績

(2000年、2001年)

- 1) 生理系専攻 (Physiology)
 - 生体情報科学講座 (Biological Sciences)
 - 生体情報科学分野 (Biological Sciences)
 - 生体構造医学講座 (Anatomical Science)
 - 機能微細形態学分野 (Anatomy and Neurobiology)

- 2) 病理系専攻 (Pathology)
 - 基礎病態学講座 (Basic Pathology)
 - 病態生物医学分野 (Pathology and Biology of Diseases)
 - 感染・免疫学講座 (Infectious Diseases and Immunology)
 - 免疫細胞生物学分野 (Immunology and Cell Biology)

- 3) 分子医学系専攻 (Molecular Medicine)
 - 分子生体制御学講座 (Molecular Biology)
 - 分子生物学分野 (Medical Chemistry)
 - 分子細胞情報学分野 (Cell Biology)
 - 分子腫瘍学分野 (Molecular Oncology)

- 4) 脳統御医科学系専攻 (Neuroscience)
 - 高次脳科学講座 (Basic Neuroscience)
 - 高次脳形態学分野 (Morphological Brain Science)
 - 神経・細胞薬理学分野 (Cell Pharmacology)

- 5) 内科系専攻 (Internal Medicine)
 - 内科学講座 (Internal Medicine)
 - 内分泌・代謝内科学分野 (Medicine and Clinical Science)
 - 循環器内科学分野 (Cardiovascular Medicine)
 - 消化器内科学分野 (Gastroenterology and Hepatology)
 - 加齢医学分野 (Department of Geriatric Medicine)
 - 糖尿病・栄養内科学分野 (Metabolism and Clinical Nutrition)
 - 放射線医学講座 (Radiology and Nuclear Medicine)
 - 腫瘍放射線科学分野 (Therapeutic Radiology and Oncology)
 - 核医学・画像診断学分野 (Nuclear Medicine and Diagnostic Imaging)

- 6) 外科系専攻 (Surgery)
 - 外科学講座 (Surgery)
 - 移植免疫医学分野 (Transplantation and Immunology)
 - 消化器外科学分野 (Gastroenterological Surgery)
 - 器官外科学講座 (Surgery for Visceral Organs)
 - 婦人科学・産科学分野 (Gynecology and Obstetrics)

泌尿器科学分野 (Department of Urology)

心臓血管外科学分野 (Cardiovascular Surgery)

感覚運動系外科学講座 (Surgery for Sensory and Motor Systems)

眼科学分野 (Ophthalmology and Visual Sciences)

整形外科学分野 (Orthopaedic and Musculoskeletal Surgery)

口腔外科学分野 (Oral and Maxillofacial Surgery)

7) 分子医学系専攻 (Molecular Medicine)

分子外科学講座

腫瘍外科学分野 (Surgery and Surgical Basic Science)

8) 脳統御医科学専攻 (Neuroscience)

脳病態生理学講座 (Clinical Neuroscience)

脳神経外科学分野 (Neurosurgery)

9) 薬剂部 (Pharmacy)

10) 寄付講座 (Contributed Chairs)

分子免疫学・アレルギー学講座 (Bayer-Chairs of Department of Molecular Immunology and Allergy)

11) 附属動物実験施設 (Institute of Laboratory Animals)

生体情報科学分野 (Biological Sciences)

Kaneko, S., Hikida, T., Watanabe, D., Ichinose, H., Nagatsu, T., Kreitman, R. J., Pastan, I., and Nakanishi, S. (2000). Synaptic integration mediated by striatal cholinergic interneurons in basal ganglia function. *Science* 289. 633-637.

Hikida, T., Kaneko, S., Isobe, T., Kitabatake, Y., Watanabe, D., Pastan, I., and Nakanishi, S. (2001). Increased sensitivity to cocaine by cholinergic cell ablation in nucleus accumbens. *Proc Natl Acad Sci US A* 98. 13351-13354.

Sato, M., Suzuki, K., and Nakanishi, S. (2001). NMDA receptor stimulation and brain-derived neurotrophic factor upregulate homer 1a mRNA via the mitogen-activated protein kinase cascade in cultured cerebellar granule cells. *J Neurosci* 21. 3797-3805.

Yoshida, K., Watanabe, D., Ishikane, H., Tachibana, M., Pastan, I., and Nakanishi, S. (2001). A key role of starburst amacrine cells in originating retinal directional selectivity and optokinetic eye movement. *Neuron* 30. 771-780.

機能微細形態学分野 (Anatomy and Neurobiology)

Chakraborty, S., Kitada, M., Matsumoto, N., Taketomi, M., Kimura, K. and Ide, C. (2000). Choroid plexus ependymal cells enhance the neurite outgrowth from dorsal root ganglion neurons in vitro. *J. Neurocytol.* 29:707-717.

Shirasu, M., Kimura, K., Kataoka, M., Takahashi, M., Okajima, S., Kawaguchi, S., Hirasawa, Y., Ide, C. and Mizoguchi, A. (2000). VAMP-2 promotes neurite elongation and SNAP-25A increases neurite sprouting in PC12 cells. *Neurosci Res.* 37:265-75.

Nishida, A., Takahashi, M., Tanibara, H., Nakano, I., Takahashi, J., Mizoguchi, A., Ide, C. and Honda, Y. (2000). Incorporation and differentiation of neural stem cells transplanted in injured adult rat retina. *Invest. Ophthalmol. Vis. Sci.* 41:4268-4274.

Okajima, S., Shirasu, M., Hirasawa, Y. and Ide C. (2000). Ultrastructural characteristics and synaptophysin immunohistochemistry of regenerating nerve growth cones following traumatic injury to rat peripheral nerve. *J. Reconstruct. Microsurg.* 16:637-642.

岡島誠一郎、井出千束 (2000). 末梢神経損傷および末梢神経再生の基礎. 臨床医のための末梢神経損傷・障害の治療. 平澤泰介編著. 金原出版. PP.1-17.

井出千束 (2000). 神経再生とグリア細胞. *Clin Neurosci.* 18: 32-34.

Ide, C., Kitada, M., Chakraborty, S., Taketomi, M., Matsumoto, N., Kikukawa, S., Mizoguchi, A., Kawaguchi, S., Endo, K. and Suzuki, Y. (2001). Grafting of choroid plexus ependymal cells promotes the growth of regenerating axons in the dorsal funiculus of rat spinal cord: A preliminary report. *Exp. Neurol.* 167:242-51.

Mligiliche, N., Kitada, M. and Ide, C. (2001). Grafting of detergent-denatured skeletal muscles provides effective conduits for extension of regenerating axons in the rat sciatic nerve. *Arch. Histol. Cytol.* 64:29-36.

Mligiliche, N., Tabata, Y., Endoh, K. and Ide, C. (2001). Peripheral nerve regeneration through a long detergent-denatured muscle autografts in rabbits. *NeuroReport.* 12:1719-22.

Kataoka, K., Suzuki, Y., Kitada, M., Ohnishi, K., Suzuki, K., Tanihara, M., Ide, C. and Nishimura, Y. (2001). Alginate, a bioresorbable material derived from brown seaweed, enhances elongation of amputated axons of spinal cord in infant rats. *J. Biomed. Mater. Res.* 54:373-84.

Kitada, M., Chakraborty, S., Matsumoto, M., Taketomi, M. and Ide, C. (2001). Differentiation of choroid plexus ependymal cells into astrocytes after grafting into the prelesioned spinal cord in mice. *Glia* 36: 364-374.

Wu, S., Suzuki, Y., Kitada, M., Kitaura, M., Kataoka, K., Takahashi, J., Ide, C., and Nishimura, Y. (2001). Migration, integration and differentiation of hippocampus-derived neurosphere cells after transplantation into injured rat spinal cord. *Neurosci. Lett.* 312: 173-176.

Oh, J., Takahashi, R., Kondo, S., Mizoguchi, A., Adachi, E., Sasahara, R. M., Nishimura, S., Imamura, Y., Kitayama, H., Alexander, D. B., Ide, C., Horan, T. P., Arakawa, T., Yoshida, H., Nishikawa, S., Itoh, Y., Seiki, M., Itohara, S., Takahashi, C., and Noda, M. (2001). The Membrane-Anchored MMP-Inhibitor RECK is a Key Regulator of Extracellular Matrix Integrity and Angiogenesis. *Cell* 107, 789-800.

井出千束、藤本悦子 (2001). 末梢神経再生における基質の役割. *医学のあゆみ.* 196:142-143.

井出千束 (2001). 脊髄の再生 (1) *臨床脳波* 43: 809-814.

病態生物医学分野 (Pathology and Biology of Diseases)

Tanaka, T., Kondo, S., Iwasa, Y., Hiai, H., and Toyokuni, S. (2000). Expression of stress-response and cell proliferation genes in renal cell carcinoma induced by oxidative stress. *Am. J. Pathol.* 156, 2149-2157.

Kondo, S., Toyokuni, S., Tanaka, T., Hiai, H., Onodera, H., Kasai, H., and Imamura M. (2000). Overexpression of hOGG1 gene and high 8-hydroxy-2'-deoxyguanosine lyase activity in human colorectal carcinoma: regulation mechanisms of 8-hydroxy-2'-deoxyguanosine level in DNA. *Clin. Cancer Res.* 6, 1394-1400.

Toyokuni, S., Yamada, S., Kashima, M., Ihara, Y., Yamada, Y., Tanaka, T., Hiai, H., Seino, Y., and Uchida K. (2000). Serum 4-hydroxy-2-nonenal-modified albumin is elevated in the patients with type 2 diabetes mellitus. *Antiox. Redox Signal.* 2, 681-685.

Zeng, Z. Z., Higashi, S., Kitayama, W., Denda, A., Yan, Y., Matsuo, K., Konishi, Y., Hiai, H., and Higashi, K. (2000). Genetic resistance to chemical carcinogen-induced preneoplastic hepatic lesions in DRH strain rats. *Cancer Res.* 60, 2876-2881.

Higashi, S., Habuchi, T., Takahashi, T., Kamoto, T., Kakehi, Y., Ogawa, O., Hiai H. (2000). Allelic imbalances on chromosome 20 in human transitional cell carcinoma. *Jpn. J. Cancer Res.* 91, 499-503.

Todaka, N., Higashi, K., Yan, Y., Abe, T., Yamashiro, K., Hiai H. (2000). Investigation of possible involvement of several genes related to development of hepatocarcinogenesis in rats. *J. U.O.E.H.* 22, 119-132.

Toyokuni, S., Masumizu, T., Ozeki, M., Kondo, S., Hiroyasu, M., Kohno, M., and Hiai H. (2001). An electron spin resonance study on alkylperoxyl radical in thin-sliced renal tissues from ferric nitrilotriacetate-treated rats: the effect of ••tocopherol feeding. *Free Radic. Res.* 35, 245-255.

Ichihashi, K., Osawa, T., Toyokuni, S., and Uchida K. (2001). Endogenous formation of protein adducts with carcinogenic aldehydes: implication for oxidative stress. *J. Biol. Chem.* 276, 23903-23913.

Kallay, E., Pietschmann, P., Toyokuni, S., Bajna, E., Hahn, P., Mazzucco, K., Bieglmayer, C., Kato, S., and Cross, H. S. (2001). Characterization of a vitamin D receptor knockout mouse as a model of colorectal hyperproliferation and DNA damage. *Carcinogenesis* 22, 1429-1435.

Okada, K., Wangpoengtrakul, C., Tanaka, T., Toyokuni, S., Uchida, K., and Osawa T. (2001). Curcumin and especially tetrahydrocurcumin ameliorate oxidative stress-induced renal injury in mice. *J. Nutr.* 131, 2090-2095.

Kamba, T., Higashi, S., Kamoto, T., Shisa, H., Yamada, Y., Ogawa, O., Hiai H. (2001). Failure of ureteric bud invasion: a new model of renal agenesis in mice. *Am. J. Pathol.* 159, 2347-2353.

Tanuma, J. I., Fujii, K., Hirano, M., Matsuchi, H., Shisa, H., Hiai, H., Kitano M. (2001). Five quantitative trait loci affecting 4-nitroquinoline 1-oxide-induced tongue cancer in the rat. *Jpn. J. Cancer Res.* 92, 610-616.

免疫細胞生物学分野 (Immunology and Cell Biology)

Seigo Korematsu, Yoshimasa Tanaka, Susumu Hosoi, Satoshi Koyanagi, Toyokazu Yokota, Bunzo Mikami, and Nagahiro Minato (2000). C8/119S Mutation of Major Mite Allergen Derf-2 Leads to Degenerate Secondary Structure and Molecular Polymerization and Induces Potent and Exclusive Th1 Cell Differentiation. *The Journal of Immunology.* 165: 2895-290.

Koji Suga, Koko Katagiri, Tatsuo Kinashi, Masashi Harazaki, Tadahiko Iizuka, Masakazu Hattori, Nagahiro Minato. (2001). CD98 induces LFA-1-mediated cell adhesion in lymphoid cells via activation of Rap1. *FEBS Letters.* 489:249-25.

Fumi Miyagawa, Yoshimasa Tanaka, Seiji Yamashita, and Nagahiro Minato. (2001). Essential Requirement of Antigen Presentation by Monocyte Lineage Cells for the Activation of Primary Human $\gamma\delta$ T cells by Aminobisphosphonate Antigen. *The Journal of Immunology.* 166:5508-5514.

Yu Kato, Yoshimasa Tanaka, Fumi Miyagawa, Seiji Yamashita, and Nagahiro Minato. (2001). Targeting of Tumor Cells for Human $\gamma\delta$ T cells by Nonpeptide Antigens. *The Journal of Immunology.* 167:5092-5098.

Fumi Miyagawa, Yoshimasa Tanaka, Seiji Yamashita, Bunzo Mikami, Kiichiro Danno, Masami Uehara, and Nagahiro Minato. (2001). Essential Contribution of Germline-Encoded Lysine Residues in J γ 1.2 Segment to the Recognition of Nonpeptide Antigens by Human $\gamma\delta$ T cells. *The Journal of Immunology.* 167:6773-6779.

分子生物学分野 (Medical Chemistry)

Fagarasan, S., R. Shinkura, et al. (2000). Alymphoplasia (aly)-type nuclear factor kappaB-inducing kinase (NIK) causes defects in secondary lymphoid tissue chemokine receptor signaling and homing of peritoneal cells to the gut-associated lymphatic tissue system. *J Exp Med* 191(9): 1477-86.

Freeman, G. J., A. J. Long, et al. (2000). Engagement of the PD-1 immunoinhibitory receptor by a novel B7 family member leads to negative regulation of lymphocyte activation. *J Exp Med* 192(7): 1027-34.

Kamata, T., F. Nogaki, et al. (2000). Increased frequency of surface IgA-positive plasma cells in the intestinal lamina propria and decreased IgA excretion in hyper IgA (HIGA) mice, a murine model of IgA nephropathy with hyperserum IgA. *J Immunol* 165(3): 1387-94.

Nishimura, H., T. Honjo, et al. (2000). Facilitation of beta selection and modification of positive selection in the thymus of PD-1-deficient mice. *J Exp Med* 191(5): 891-8.

Watanabe, N., K. Ikuta, et al. (2000). Migration and differentiation of autoreactive B-1 cells induced by activated gamma/delta T cells in antierythrocyte immunoglobulin transgenic mice. *J Exp Med* 192(11): 1577-86.

Ye, S. K., K. Maki, et al. (2001). Differential roles of cytokine receptors in the development of epidermal gamma delta T cells. *J Immunol* 167(4): 1929-34.

Agata, Y., T. Katakai, et al. (2001). Histone acetylation determines the developmentally regulated accessibility for T cell receptor gamma gene recombination. *J Exp Med* 193(7): 873-80.

Fagarasan, S., K. Kinoshita, et al. (2001). In situ class switching and differentiation to IgA-producing cells in the gut lamina propria. *Nature* 413(6856): 639-43.

Nishimura, H., T. Okazaki, et al. (2001). Autoimmune dilated cardiomyopathy in PD-1 receptor-deficient mice. *Science* 291(5502): 319-22.

Tanigaki, K., F. Nogaki, et al. (2001). Notch1 and Notch3 instructively restrict bFGF-responsive multipotent neural progenitor cells to an astroglial fate. *Neuron* 29(1): 45-55.

分子細胞情報学分野 (Cell Biology)

Fujita, K., Katahira, J., Horiguchi, Y., Sonoda, ., N., Furuse, M., and Tsukita, Sh. (2000). Clostridium perfringens enterotoxin binds to the second extracellular loop of claudin-3, a tight junction integral membrane protein. *FEBS Lett.*, 476, 258-261.

Saitou, M., Furuse, M., Sasaki, H., Schulzke, J., Fromm, M., Takano, H., Noda, T., and Tsukita, Sh. (2000). Complex phenotype of mice lacking occludin, a component of tight junction strands. *Mol. Biol. Cell*, 11, 4131-4142.

Tsukita, Sh. and Furuse, M. (2000). The structure and function of claudins, cell adhesion molecules at tight junctions. *Ann. NY Acad. Sci.*, 915, 129-135

Tsukita, Sh. (2000). Tight junctions involving occludin and claudins. *Cornea*, 19, S142-S145.

Tsukita, Sh. and Furuse, M. (2000). Pores in the wall: Claudins constitute tight junction strands containing aqueous pores. *J. Cell Biol.*, 149, 13-16.

Furuse, M., Furuse, K., Sasaki, H., and Tsukita, Sh. (2001). Conversion of Zonula Occludentes from tight to leaky strand type by introducing claudin-2 into MDCK I cells. *J. Cell Biol.*, 153, 263-272.

Nakagawa, Y., Yamane, Y., Okanou, T., Tsukita, Sh., and Tsukita, Sa. (2001). Outer dense fiber 2 is a widespread centrosome scaffold component preferentially associated with mother centrioles: Its identification from isolated centrosomes. *Mol. Biol. Cell*, 12, 1687-1697.

Itoh, M., Sasaki, H., Furuse, M., Ozaki, H., Kita, T., and Tsukita, Sh. (2001). Junctional adhesion molecule (JAM) binds to PAR-3: a possible mechanism for the recruitment of PAR-3 to tight junctions. *J. Cell Biol.*, 154, 491-497.

Tsukita, Sh., Furuse, M. and Itoh, M. (2001). Multi-functional strands in tight junctions. *Nature Rev. Mol. Cell Biol.*, 2, 285-293.

分子腫瘍学分野 (Molecular Oncology)

T. Matsuzaki, K. Aisaki, Y. Yamamura, M. Noda and Y. Ikawa. (2000). Induction of erythroid differentiation by inhibition of Ras/ERK pathway in a Friend murine leukemia cell line. *Oncogene* 19, 1500-1508.

T. Matsumoto, N. Akiyama, S. Kizaka-Kondoh and M. Noda. (2000). Transient overexpression of NGFI-A gene suppresses NGF-induced neurite outgrowth in PC12 cells. *NeuroReport* 11, 1001-1005.

N. Akiyama, Y. Matsuo, H. Sai, M. Noda and S. Kizaka-Kondoh. (2000). Identification of a series of TGF-beta-responsive genes by retrovirus-mediated gene trap screening. *Mol. Cell. Biol.* 20, 3266-3273 .

H. Izumi, C. Takahashi, J. Oh and M. Noda. (2000). Tissue factor pathway inhibitor-2 suppresses the production of active matrix metalloproteinase-2 and is down-regulated in cells harboring activated ras oncogenes. *FEBS Lett.* 481, 31-36 .

A. Kinoshita, M. Noda and M. Kinoshita. (2000). Differential localization of septins in the mouse brain. *J. Comp. Neurol.* 428, 223-239.

Y. Imamura, H. Inokawa, A. Ito, H. Kadotani, K. Toyama, M. Noda, S. Nakanishi and T. Hirano. (2000). Roles of GABAergic inhibition and NMDA receptor subunits in the spatio-temporal integration in the cerebellar cortex of mice. *Neurosci. Res.* 38, 289-301.

K. Furumoto, S. Arii, A. Mori, H. Furuyama, M. J. Gorrin Rivas, T. Nakao, N. Isobe, T. Murata, C. Takahashi, M. Noda and M. Imamura . (2001). RECK gene expression in hepatocellular carcinoma: Correlation with invasion-related clinicopathological factors and its clinical significance. *Hepatology* 33, 189-195.

T. Ueda, N. Akiyama, H. Sai, N. Oya, M. Noda, M. Hiraoka and S. Kizaka-Kondoh . (2001). c-IAP2 is induced by ionizing radiation through NF-kB binding sites. *FEBS Lett.* 491, 40-44.

Y. Matsuo, N. Akiyama, H. Nakamura, J. Yodoi, M. Noda and S. Kizaka-Kondoh. (2001). Identification of a novel thioredoxin-related transmembrane protein. *J. Biol. Chem.* 276, 10032-10038.

M. Kinoshita, T. Nakamura, M. Ihara, T. Haraguchi, Y. Hiraoka, K. Tashiro and M. Noda. (2001) . Identification of human endomucin-1 and -2 as membrane-bound O-sialoglycoproteins with anti-adhesive activity. *FEBS Lett.* 499, 121-126.

M. Ihara, H. Tomimoto, M. Kinoshita, J. Oh, M. Noda, H. Wakita, I. Akiguchi and H. Shibasaki. (2001). Chronic cerebral hypoperfusion induces MMP-2 but not MMP-9 expression in the microglia and vascular endothelium of white matter. *J. Cereb. Blood Fl. Met.* 21, 828-834 .

G. Joberty, R. R. Perlungher, P. J. Sheffield, M. Kinoshita, M. Noda, T. Haystead and I. G. Macara. (2001). Septin organisation is controlled by Borgs and negatively regulated by Cdc42. *Nature Cell Biol.* 3, 861-866.

J. Oh, R. Takahashi, S. Kondo, A. Mizoguchi, E. Adachi, R. M. Sasahara, S. Nishimura, Y. Imamura, H. Kitayama, D. B. Alexander, C. Ide, T. P. Horan, T. Arakawa, H. Yoshida, S. Nishikawa, Y. Itoh, M. Seiki, S. Itohara, C. Takahashi and

M. Noda. (2001) .The Membrane-Anchored MMP-Inhibitor RECK is a Key Regulator of Extracellular Matrix Integrity and Angiogenesis. *Cell* 107, 789-800.

高次脳形態学分野 (Morphological Brain Science)

Ino T., Kaneko T., and Mizuno N. (2000). Intrinsic and commissural connections within the entorhinal cortex. An anterograde and retrograde tract-tracing study in the cat. *Neuroscience Research*, vol. 36 (no.1), pp. 45-60, January.

Li J.-L., Wang D., Kaneko T., Shigemoto R., Nomura S., and Mizuno N. (2000). Relationship between neurokinin-1 receptor and substance P in the striatum: light and electron microscopic immunohistochemical study in the rat. *The Journal of Comparative Neurology*, vol. 418 (no.2), pp. 156-163, March 6.

Nakamura K., Kaneko T., Yamashita Y., Hasegawa H., Katoh H., and Negishi M. (2000). Immunohistochemical localization of prostaglandin EP3 receptor in the rat nervous system. *The Journal of Comparative Neurology*, vol. 421 (no.4), pp. 543-569, June 12.

Li J.-L., Wang D., Kaneko T., Shigemoto R., Nomura S., and Mizuno N. (2000). The relationship between neurokinin-1 receptor and substance P in the medullary dorsal horn A light and electron microscopic immunohistochemical study in the rat. *Neuroscience Research*, vol. 36 (no.4), pp. 327-334, April.

Taki K., Kaneko T., and Mizuno N. (2000). A group of cortical interneurons expressing μ -opioid receptor-like immunoreactivity: a double immunofluorescence study in the rat cerebral cortex. *Neuroscience*, vol. 98 (no. 2), pp. 221-231, June.

Kaneko T., Cho R.-H., Li Y.-Q., Nomura S., and Mizuno N. (2000). Predominant information transfer from layer III pyramidal neurons to corticospinal neurons. *The Journal of Comparative Neurology*, vol. 423 (no.1), pp. 52-65, July 17.

Li J.-L., Xiong K.-H., Li Y.-Q., Kaneko T., and Mizuno N. (2000). Serotonergic innervation of mesencephalic trigeminal nucleus neurons: a light and electron microscopic study in the rat. *Neuroscience Research*, vol. 37 (no.2), pp. 127-140, June.

Li Y.-Q., Wu S.-X., Li J.-L., Li J.-S., Kaneko T., and Mizuno N. (2000). Co-existence of calcium-binding proteins in neurons of the medullary dorsal horn of the rat. *Neuroscience Letters*, vol. 286 (no.2), pp. 103-106, June 2.

Wang D., Li Y.-Q., Li J.-L., Kaneko T., Nomura S., and Mizuno N. (2000). γ -Aminobutyric acid- and glycine-immunoreactive neurons postsynaptic to substance P-immunoreactive axon terminals in the superficial layers of the rat medullary dorsal horn. *Neuroscience Letters*, vol. 288 (no.3), pp. 187-190, July 21.

Li Y.-Q., Li H., Yang K., Kaneko T., and Mizuno N. (2000). Morphologic features and electrical membrane properties of projection neurons in the marginal layer of the medullary dorsal horn of the rat. *The Journal of Comparative Neurology*, vol. 424 (no.1), pp. 24-36, August 14.

Furuta T., Mori T., Lee T., and Kaneko T. (2000). Third group of neostriatofugal neurons: neurokinin B-producing neurons that send axons predominantly to the substantia innominata. *The Journal of Comparative Neurology*, vol. 426 (no.2), pp. 279-296, October 16.

Tamamaki N., Nakamura K., Furuta T., Asamoto K., and Kaneko, T. (2000). Neurons in golgi-stain-like images revealed by GFP-adenovirus infection in vivo. *Neuroscience Research*, vol. 38 (no.3), pp. 231-236, November.

Li Y.-Q., Li H., Yang K., Wang Z.-M., Kaneko T., and Mizuno N. (2000). Intracellular labeling study of neurons in the superficial part of the magnocellular layer of the medullary dorsal horn of the rat. *The Journal of Comparative Neurology*, vol. 428 (no.1), pp. 641-655, December 4.

Beuckmann C. T., Lazarus M., Gerashchenko D., Mizoguchi A., Nomura S., Mohri I., Uesugi A., Kaneko T., Mizuno N., Hayaishi O., and Urade Y. (2000). Cellular localization of lipocalin-type prostaglandin D synthase (β -trace) in the central nervous system of the adult rat. *The Journal of Comparative Neurology*, vol. 428 (no.4), pp. 62-78, December 25.

Fujimori, K., Takeuchi, K., Yazaki, T., Uemura, K., Nojyo, Y., and Tamamaki, N. (2000). Expression of L1 and TAG-1 in the corticospinal callosal, and hippocampal commissural neurons in the developing rat telencephalon as revealed by retrograde and in situ hybridization double labeling. *J. Comp. Neurol.* 417: 275-288.

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Ino T., Kaneko T., and Mizuno N. (2001). Projections from the hippocampal and parahippocampal regions to the entorhinal cortex. An anterograde and retrograde tract-tracing study in the cat. *Neuroscience Research*, vol. 39 (no.1), pp. 51-69, January.

Li Y.-Q., Kaneko T., Mizuno N. (2001). Collateral projections of nucleus raphe dorsalis neurons to the caudate-putamen and region around the nucleus raphe magnus and nucleus reticularis gigantocellularis pars α in the rat. *Neuroscience Letters*, vol. 299 (no. 1-2), pp. 33-36, February 16.

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