

## CURRICULUM VITAE

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Professor, Graduate School of Nursing, University of Shizuoka

**Education:** 1981-1987 Niigata University School of Medicine

**Degree:** M.D., May 25, 1989, Japanese Ministry of Health and Welfare  
Ph.D., March 22, 1994, Niigata University School of Medicine

### Faculty Appointments:

1989- 1996 Instructor, Department of Anatomy Niigata University School of Medicine  
1996- 1998 Lecturer, Department of Anatomy Niigata University School of Medicine  
1998- 2002 Lecturer, Division of Basic Radiological Technology, Department of Radiological Technology, Nagoya University School of Health Sciences  
2002- 2004 Associate Professor, Division of Basic Radiological Technology, Department of Radiological Technology, Nagoya University School of Health Sciences

2004- 2005	Associate Professor, Department of Anatomy, Faculty of Medicine, Toyama Medical and Pharmaceutical University
2005-present	Professor, Department of Functional Anatomy, School of Nursing, University of Shizuoka
2011-2013	Dean, School of Nursing, University of Shizuoka

### Membership in Academic Societies:

The Japanese Association of Anatomists(Trustee)  
The Japanese Association for the Study of Taste and Smell  
The Japanese Circulation Society  
Japanese Society of Radiological Technology  
Nippon Batrachological Society  
Japanese Society of Medical and Biological Engineering

### Publications

1. Microcirculation of the pancreas in the rat and rabbit with special reference to the insulo-acinar portal system and emissary vein of the islet. Osamu Ohtani, Tatsuo Ushiki, Hiroaki Kanazawa, Tsuneo Fujita Arch Histol Jap 49, 1 p.45-60(1986)
2. Response of the taste receptor cell to the Umami-substance stimulus. An electronmicroscopic study. Sumio Yoshie, Chikashi Wakasugi, Yoshimi Teraki, Hiroaki Kanazawa, Toshihiko Iwanaga, Tsuneo Fujita Physiol Behav 49,5 p.887-889 (1991)
3. Immunohistochemical localization of protein gene product 9.5 (PGP9.5) in sensory paraneurons of the rat. Toshihiko Iwanaga, Hongxia Han, Hiroaki Kanazawa, Tsuneo Fujita Biomed Res 13,3 p.225-230 (1992)
4. Arginine vasopressin increases perinuclear( $Ca^{2+}$ ) in single cultured vascular smooth muscle cells of rat aorta. Hideyoshi Fujihara, Satoru Fukuda, Tsuyoshi Tamaki, Hiroaki Kanazawa, Naoshi Fujiwara, Koki

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5. Purple urine bag syndrome: A case report. Ken-ichi Kano, Shinzo Shibuki, Katsumi Hayashi, Mamoru Anezaki, Hiroaki KanazawaThe nishinohon journal of urology 55, 9 p.1373-1375 (1993)
  6. Exocrinopathy resembling Sjögren's syndrome induced by a murine retrovirus. Kenji Suzuki, Masahiko Makino, Yoshiaki Okada, Jun Kinoshita, Ryogo Yui, Hiroaki Kanazawa, Hitoshi Asakura, Michio Fujiwara, Toshiaki Mizuochi, Katsutoshi Komuro Lab Invest 69, 4 p.430-435 (1993)
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  8. Fine structure of the canine taste bud with special reference to gustatory cell functions. Hiroaki Kanazawa Arch Histol Cytol 56, 5. p.495-500 (1993)
  9. Receptosecretory nature of the gustatory cell. Sumio Yoshie, Chikashi Wakasugi, Hiroaki Kanazawa, Tsuneo Fujita Olfaction and Taste XI p.5-8 (1994)
  10. Ultrastructure of canine circumvallate taste buds. Hiroaki Kanazawa, Sumio Yoshie, Tsuneo Fujita Olfaction and Taste XI p.25 (1994)
  11. Topographical relation between serotonin-containing paraneurons and peptidergic neurons in the intestine and urethra. Toshihiko Iwanaga, Hongxia Han, Osamu Hoshi, Hiroaki Kanazawa, Isamu Adachi, Tsuneo Fujita Biol Signals 1994, 3 p.259-270 (1994)
  12. The taste bud and its innervation in the rat as studied by immunohistochemistry for PGP9.5. Hiroaki Kanazawa, Sumio Yoshie Arch Histol Cytol 59, 4 p.357-367 (1996)

13. A possibility of efferent innervation of the gustatory cell in the rat circumvallate taste bud. Sumio Yoshie, Hiroaki Kanazawa, Tsuneo Fujita Arch Histol Cytol 59, 5 p. 479-484 (1997)
14. Occurrence of subtypes of gustatory cells in cat circumvallate taste buds. Sumio Yoshie, Hiroaki Kanazawa, Yasutaka Nishida, Tsuneo Fujita Arch Histol Cytol 60, 4 p. 421-426 (1997)
15. Imaging of living cultured cells of an epithelial nature by atomic force microscopy. Tatsuo Ushiki, Jiro Hitomi, Takeshi Umemoto, Susumu Yamamoto, Hiroaki Kanazawa, Masatsugu Shigeno Arch Histol Cytol 62, 1 p. 47-55 (1999)
16. The existence of Merkel cells in the lingual connective tissue of the Surinam caiman, *Caiman crocodilus* (order Crocodylia). Sumio Yoshie, Hiroyuki Yokosuka, Hiroaki Kanazawa, Tsuneo Fujita Arch Histol Cytol 62, 1 p. 97-106 (1999)
17. Three-dimensional appearance of Bowman's layer after radial keratotomy. Susumu Yamamoto, Shoichi Sawaguchi, Takeo Fukuchi, Hiroaki Kanazawa, Hiroya Hashizume, Haruki Abe J Cataract Refract Surg 25 p. 363-367 (1999)
18. Renal interstitial cell infiltration in rats induced by immune reactions around proximal tubular basement membrane. Su Qian, Hiroshi Kawachi, Hiroaki Kanazawa, Michiaki Orikasa, Haruo Takamiya, Fujio Shimizu Clinical Experimental Nephrology 2000, 4 p. 201-206 (2000)
19. Morphological characteristics of Schwann cells in the islets of Langerhans of the murine pancreas. Eiji Sunami, Hiroaki Kanazawa, Hiroya Hashizume, Masaei Takeda, Katsuyoshi Hatakeyama, Tatsuo Ushiki Arch Histol Cytol 64, 2 p. 191-201 (2001)

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22. Shiga-like toxin II modifies brain distribution of a P-glycoprotein substrate, doxorubicin, and P-glycoprotein expression in mice. Ying Lan Zhao, Jun Du, Hiroaki Kanazawa, Xiao Bo Cen, Kenji Takagi, Kiyoyuki Kitaichi, Yasuaki Tatsumi, Kenzo Takagi, Michio Ohta, Takaaki Hasegawa *Brain Res* 956 p.246-253 (2002)
23. Shiga-like toxin II impairs hepatobiliary transport of doxorubicin in rats by down-regulation of hepatic P glycoprotein and multidrug resistance-associated protein Mrp2. Kazuhiko Hidemaru, Ying Lan Zhao, Katsuki Ito, Akimasa Nakano, Yasuaki Tatsumi, Hiroaki Kanazawa, Kenzo Takagi, Michio Ohta, Takaaki Hasegawa *Antimicrob Agents Chemother* 47, 5 p.1636-1642 (2003)
24. Progressive development of pulmonary hypertension leading to right ventricular hypertrophy assessed by echocardiography in rats. Yosuke Kato, Mitsunori Iwase, Hiroaki Kanazawa, Natsuki Kawata, Yukie Yoshimura, Katsunori Hashimoto, Toyoharu Yokoi, Akiko Noda, Kenzo Takagi, Yasuo Koike, Takao Nishizawa, Masahiko Nishimura, Mitsuhiro Yokota *Experimental Animals* 52, 4 p.285-294 (2003)
25. Validity and application of noninvasive measurement of blood pressure in hamsters. Yosuke Kato, Mitsunori Iwase, Hiroaki Kanazawa, Takao Nishizawa, Ying Lan Zhao, Kenji Takagi, Kohzo Nagata, Akiko Noda,

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27. Serial alteration of b-adrenergic signaling in dilated cardiomyopathic hamsters –Possible role of myocardial oxidative stress. Takao Nishizawa, Mitsunori Iwase, Hiroaki Kanazawa, Sahoko Ichihara, Gaku Ichihara, Kohzo Nagata, Koji Obata, Kiyoyuki Kitaichi, Toyoharu Yokoi, Masato Watanabe, Takashi Tsunematsu, Yoshihiro Ishikawa, Toyoaki Murohara, Mitsunori Yokota *Circ J* 68, 11 p.1051-1060 (2004)
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30. Endotoxin from various gram-negative bacteria has differential effects on function of hepatic cytochrome P450 and drug transporters. Ueyama J.,

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32. Differential myolysis of myocardium and skeletal muscle in hamsters with dilated cardiomyopathy – Beneficial protective effect of diltiazem- Yosuke Kato, Mitsunori Iwase, Kenji Takagi, Takao Nishizawa, Hiroaki Kanazawa, Aya Matsushita, Hisashi Umeda, Hideo Izawa, Akiko Noda, Yasuo Koike, Kohzo Nagata, Mitsuhiro Yokota Circ J 70, 11 p. 1497-1502 (2006)
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35. Effect of the organophosphorus pesticide diazinon on glucose tolerance in type 2 diabetic rats. Jun Ueyama, Michihiro Kamijima, Kazumi Asai, Aiko Mochizuki, Dong Wang, Takaaki Kondo, Toshiaki Suzuki, Kenji Takagi, Kenzo Takagi, Hiroaki Kanazawa, Ken-ichi Miyamoto, Shinya

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37. Involvement of DNA fragmentation of enterocytes in mucosal injury to a mouse jejunum incubated in Ussing chambers. Inagaki-Tachibana, Eiko, Takamitsu Tsukahara, Kazuhiko Kaji, Ryoji Eguchi, Hiroaki Kanazawa, Hisayoshi Hayashi, and Yuichi Suzuki *Nagoya J Med Sci* 71, 1-2 p. 11-18 (2009)
38. Beneficial effects of growth hormone-releasing peptide on myocardial oxidative stress and left ventricular dysfunction in dilated cardiomyopathic hamsters. Yosuke, Mitsunori Iwase, Sahoko Ichihara, Hiroaki Kanazawa, Katsunori Hashimoto, Akiko Noda, Kohzo Nagata, Yasuo Koike, and Mitsuhiro Yokota *Circ J* 74,1 p.163-170 (2010)
39. Recognition, neutralization, and clearance of target peptides in the bloodstream of living mice by molecularly imprinted polymer nanoparticles: a plastic antibody. Hoshino, Yu, Hiroyuki Koide, Takeo Urakami, Hiroaki Kanazawa, Takashi Kodama, Naoto Oku, and Kenneth J Shea *J. Am. Chem. Soc.* 132, 19 p. 6644-6645 (2010)
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41. Imaging of sialidase activity in rat brain sections by a highly sensitive



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43. The rational design of a synthetic polymer nanoparticle that neutralizes a toxic peptide in vivo. Hoshino, Yu, Hiroyuki Koide, Keiichi Furuya, Walter W, 3rd Haberaecker, Shih-Hui Lee, Takashi Kodama, Hiroaki Kanazawa, Naoto Oku, and Kenneth J Shea *PNAS* 109, 1 p. 33-38 (2012)
44. Dysregulation of dimethylargininedimethylaminohydrolase/asymmetric dimethylarginine pathway in rat type II diabetic nephropathy Lai, Ying-Ling, Sae Aoyama, Miyuki Ohata, Nami Otsuka, Hidemi Shiokawa, Susumu Tomono, Yukio Fujiwara, Hiroaki Kanazawa, Noriyuki Miyoshi, and Hiroshi Ohshima *J Clin Biochem Nutr* 51, 2 p. 143-149 (2012)
45. A Protective Mattress Development for Patients with Peripheral Vascular Disease. Fumiko Furukawa, Noriyoshi Tanaka, Mitsunori Miyashita, Haruko Shikimori, Hiroaki Kanazawa *The Japanese Journal of Ergonomics* 48, 4 p. 196-203 (2012)
46. Improvement of depression-like behavior and memory impairment with the ethanol extract of *Pleurotus eryngii* in ovariectomized rats. Minami, Akira, Hiroshi Matsushita, Yuuki Horii, Daisuke Ieno, Yukino Matsuda, Masakazu Saito, Hiroaki Kanazawa and Takashi Suzuki, et al. *Biol Pharm Bull* 36, 12 p. 1990-1995 (2013)
47. Visualization of sialidase activity in Mammalian tissues and cancer

detection with a novel fluorescent sialidase substrate. Minami, Akira,  
Tadamune Otsubo, Daisuke Ieno, Kiyoshi Ikeda, Hiroaki Kanazawa,  
Kosuke Shimizu, and Takashi Suzuki et al. PLoS One 9,1 e81941 (2014)