

# Surgical Pathology

## 1. Staff and Students

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## 2. Purpose of education

Main object of surgical pathology in the course of graduate school is to provide medical students opportunity to study diagnosis of core diseases, both neoplastic and non-neoplastic, through biopsy, surgical and autopsy cases. Another important mission is a training of pathology specialist in the post-graduate school through diagnostic services of surgical pathology, cytopathology and autopsy.

## 3. Research Subjects

- 1) Improvement of diagnostic methods of gastrointestinal, liver, renal and respiratory diseases by anatomical, immunohistochemical, microbiological and molecular technologies.
- 2) Analysis of the pathophysiology of the disease, especially invasion mechanism of lung and gastrointestinal cancers by molecular biological technology.

## 4. Clinical Services

In cooperation with departments of human pathology and comprehensive pathology, department of surgical pathology provides autopsy services (100 case in a year), cytopathology services (12,000 cases in a year) and surgical pathology (10,000 cases in a year) for the clinicians of the affiliated hospital. Diagnosis is mostly done by the organ-subspecialized staffs. Clinico-pathological conferences are held more than one hundred times in a year.

## 5. Publications

### Original Article

1. Iwasaki M, Tsuchiya K, Okamoto R, Zheng X, Kano Y, Okamoto E, Okada E, Araki A, Suzuki S, Sakamoto N, Kitagaki K, Akashi T, Eishi Y, Nakamura T, Watanabe M. Longitudinal cell formation in the entire human small intestine is correlated with the localization of Hath1 and Klf4. *J Gastroenterol* 46:191-202,2010
2. Yamaguchi A, Akashi T. [Vascular calcification: mutual interaction between bone and blood vessel]. *Clin Calcium* 20:1669-76,2010
3. Sugiyama M, Sugiyama T, Yamaguchi M, Izumiyama H, Yoshimoto T, Kishino M, Akashi T, Hirata Y. Successful localization of ectopic ACTH-secreting bronchial carcinoid by selective pulmonary arterial sampling. *Endocr J* 57:959-64,2010
4. Jinta T, Miyazaki Y, Kishi M, Akashi T, Takemura T, Inase N, Yoshizawa Y. The pathogenesis of chronic hypersensitivity pneumonitis in common with idiopathic pulmonary fibrosis: expression of apoptotic markers. *Am J Clin Pathol* 134:613-20,2010
5. Sugiyama T, Kouyama R, Tani Y, Izumiyama H, Akashi T, Kishimoto S, Ariei S, Hirata Y. Giant malignant insulinoma which developed from a non-functioning pancreatic tumor over a long period of time. *Intern Med* 49:1573-9,2010
6. Horiguchi K, Toi M, Horiguchi S, Sugimoto M, Naito Y, Hayashi Y, Ueno T, Ohno S, Funata N, Kuroi K, Tomita M, Eishi Y. Predictive value of CD24 and CD44 for neoadjuvant chemotherapy response and prognosis in primary breast cancer patients. *J Med Dent Sci* 57(2):165-75,2010
7. Horiguchi S, Hishima T, Hayashi Y, Shiozawa Y, Horiguchi K, Kuroi K, Toi M, Funata N, Eishi Y. HER-2/neu cytoplasmic staining is correlated with neuroendocrine differentiation in breast carcinoma. *J Med Dent Sci* 57(2):155-63,2010
8. Akieda-Asai S, Zaima N, Ikegami K, Kahyo T, Yao I, Hatanaka T, Iemura S, Sugiyama R, Yokozeki T, Eishi Y, Koike M, Ikeda K, Chiba T, Yamaza H, Shimokawa I, Song SY, Matsuno A, Mizutani A, Sawabe M, Chao MV, Tanaka M, Kanaho Y, Natsume T, Sugimura H, Date Y, McBurney MW, Guarente L, Setou M. SIRT1 Regulates

Thyroid-Stimulating Hormone Release by Enhancing PIP5Kgamma Activity through Deacetylation of Specific Lysine Residues in Mammals. *PLoS One* 5(7):e11755,2010

9. Matsuzawa Y, Nakazawa K, Yamamura A, Akashi T, Kitagaki K, Eishi Y, Makita K. Airway pressure release ventilation reduces the increase in bronchoalveolar lavage fluid high-mobility group box-1 levels and lung water in experimental acute respiratory distress syndrome induced by lung lavage. *Eur J Anaesthesiol* 27(8):726-33,2010
10. Miura Y, Ishige I, Soejima N, Suzuki Y, Uchida K, Kawana S, Eishi Y. Quantitative PCR of *Propionibacterium acnes* DNA in samples aspirated from sebaceous follicles on the normal skin of subjects with or without acne. *J Med Dent Sci* 57(1):65-74,2010
11. Bilali A, Kurata S, Ikeda S, Georgieva GS, Zhu C, Tomita M, Katoh I, Mitaka C, Eishi Y, Imai T. Lung-lung interaction in isolated perfused unilateral hyperventilated rat lungs. *Transl Res* 155(5):228-37,2010
12. Parra-Blanco A, Gimeno-García AZ, Quintero E, Nicolás D, Moreno SG, Jiménez A, Hernández-Guerra M, Carrillo-Palau M, Eishi Y, López-Bastida J. Diagnostic accuracy of immunochemical versus guaiac faecal occult blood tests for colorectal cancer screening. *J Gastroenterol* 45(7):703-12,2010
13. Chiba T, Kawachi H, Kawano T, Kumagai J, Kitagaki K, Sekine M, Uchida K, Kobayashi M, Sugihara K, Eishi Y. Independent histological risk factors for lymph node metastasis of superficial esophageal squamous cell carcinoma; implication of claudin-5 immunohistochemistry for expanding the indications of endoscopic resection. *Dis Esophagus* 23(5):398-407,2010
14. Ogiya A, Horii R, Osako T, Ito Y, Iwase T, Eishi Y, Akiyama F. Apocrine metaplasia of breast cancer: clinicopathological features and predicting response. *Breast Cancer* 17(4):290-7,2010
15. Koda H, Kimura Y, Ishige I, Eishi Y, Iino Y, Kitamura K. Quantitative cellular level analysis of mitochondrial DNA 3243A >G mutations in individual tissues from the archival temporal bones of a MELAS patient. *Acta Otolaryngol* 130(3):344-50,2010
16. Haruki S, Imoto I, Kozaki K, Matsui T, Kawachi H, Komatsu S, Muramatsu T, Shimada Y, Kawano T, Inazawa J. Frequent silencing of protocadherin 17, a candidate tumour suppressor for esophageal squamous cell carcinoma. *Carcinogenesis* 31:1027-1036, 2010
17. Kumagai Y, Kawada K, Yamazaki S, Iida M, Ochiai T, Momma K, Odajima H, Kawachi H, Nemoto T, Kawano T, Takubo K. Endocytoscopic observation of esophageal squamous cell carcinoma. *Dig Endosc* 22:10-16, 2010
18. Tani Y, Sugiyama T, Hirooka S, Izumiyama H, Hirata Y. Ectopic ACTH syndrome caused by bronchial carcinoid tumor indistinguishable from Cushing's disease. *Endocr J* 57:679-86,2010
19. Uchihara T, Ohashi K, Kitagawa M, Kurata M, Nakamura A, Hirokawa K, Kasuga T, Kobayashi T, Sialidosis type I carrying V217M/G243R mutations in lysosomal sialidase. An autopsy study demonstrating terminal sialic acid in lysosomal lamellar inclusions and cerebellar dysplasia. *Acta Neuropathologica* 119: 135-145, 2010
20. Kuninaka N, Kurata M, Yamamoto K, Suzuki S, Umeda S, Kirimura S, Arai A, Nakagawa Y, Suzuki K, Kitagawa M. Expression of Toll-like receptor 9 in bone marrow cells of myelodysplastic syndromes is down-regulated during transformation to overt leukemia. *Exp Mol Pathol* 88:293-298, 2010
21. Toru S, Uchihara T, Takahashi M, Ichihara K, Endo T, Kurata M, Kitagawa M, Hirokawa K, Kobayashi T. An autopsy verified contrast in two cases of AD with or without Lewy bodies, in terms of depletion of cardiac sympathetic nerve and [alpha]-synuclein deposition. *European Neurol* 64:129-133, 2010
22. Smith TJ, Yamamoto K, Kurata M, Yukimori A, Suzuki S, Umeda S, Sugawara E, Kojima Y, Sawabe M, Nakagawa Y, Suzuki K, Crawley JTB, Kitagawa M. Differential expression of Toll-like receptors in follicular lymphoma, diffuse large B-cell lymphoma and peripheral T-cell lymphoma. *Exp Mol Pathol* 89:284-290, 2010
23. Okada Y, Kamata S, Akashi T, Kurata M, Nakamura T, Kihara K. Primitive neuroectodermal tumor/Ewing's sarcoma of the urinary bladder: a case report and its molecular diagnosis. *Int J Clin Oncol* 2010