

Comprehensive Pathology

1. Staffs and Students

Professor	Masanobu KITAGAWA	
Assistant Professor	Takashi ENDO, Shinya ABE,	Morito KURATA, Kouhei YAMAMOTO(on administrative leave)
Laboratory Technician	Miori INOUE	
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Graduate Students	Shigeaki UMEDA, Emiko SUGAWARA, Ichiro ONISHI, Na LI, Nobuo KUNINAKA,	Shiho SUZUKI, Yukako MIWA, Ruri DAGET, Yousuke KOJIMA,

2. Purpose of Education

Main objective of comprehensive pathology in the graduate course is to acquire the technique of clinical and basic pathology. This course provides students opportunity to study clinical pathology (for example, histological and cytological diagnosis, autopsy, clinico-pathologic conference) and also basic pathology (molecular pathology and molecular biology).

3. Research Subjects

- 1) Clinico-pathological study by morphological findings, immunohistochemistry, and electron microscope ,etc
- 2) Molecular analysis of leukomogenesis induced by Friend leukemia virus (FLV)
- 3) Enhancement of apoptosis by virus-derived protein and development of apoptosis-induction cancer therapy
- 4) Molecular pathology of the myelodysplastic syndromes (MDS)
- 5) Clarification of drug resistance mechanism for hematopoietic malignancies
- 6) Comprehensive research for aging focus on the decreased immune competence
- 7) Molecular biology of the cancer progression and metastasis

4. Publications

Original Article

1. 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
2. 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
3. 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
4. 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
5. 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