

Comprehensive Pathology

1. Staffs and Students

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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. Konstantinou K, Yamamoto K, Ishibashi F, Mizoguchi Y, Kurata M, Nakagawa Y, Suzuki K, Sawabe M, Ohta M, Miyakoshi S, Crawley JT, Kitagawa M . Angiogenic mediators of the angiopoietin system are highly expressed by CD10-positive lymphoma cells in angioimmunoblastic T-cell lymphoma. *Br J Haematol.* Mar;144(5):696-704, 2009.
2. Akashi T, Takemura T, Ando N, Eishi Y, Kitagawa M, Takizawa T, Koike M, Ohtani Y, Miyazaki Y, Inase N, Yoshizawa Y. Histopathologic analysis of sixteen autopsy cases of chronic hypersensitivity pneumonitis and comparison with idiopathic pulmonary fibrosis/usual interstitial pneumonia *Am J Clin Pathol.* Mar;131(3):405-15, 2009.
3. Hasegawa M, Kurata M, Yamamoto K, Yoshida K, Aizawa S, Kitagawa M. A novel role for acinus and MCM2 as host-specific signaling enhancers of DNA-damage-induced apoptosis in association with viral protein gp70. *Leuk Res.* Aug;33(8):1100-7, 2009.
4. Komai Y, Fujiwara M, Fujii Y, Mukai H, Yonese J, Kawakami S, Yamamoto S, Migita T, Ishikawa Y, Kurata M, Nakamura T, Fukui I. Adult Xp11 translocation renal cell carcinoma diagnosed by cytogenetics and immunohistochemistry. *Clin Cancer Res.* Feb 15;15(4):1170-6, 2009.
5. Abe S, Okuda K, Ura T, Kondo A, Yoshida A, Yoshizaki S, Mizuguchi H, Klinman D, Shimada M : Adenovirus type 5 with modified hexon induces robust transgene-specific immune responses in mice with pre-existing immunity against adenovirus type 5. *J Gene Med* 2009; 11: 570-579.
6. Ura T, Yoshida, Xin KQ, Yoshizaki S, Yashima S, Abe S, Mizuguchi H, Okuda K : Designed recombinant adenovirus type 5 vector induced envelope-specific CD8(+) cytotoxic T lymphocytes and cross-reactive neutralizing antibodies against human immunodeficiency virus type 1. *J Gene Med* 2009; 11: 139-49
7. Hirokawa K, Utsuyama M, Ishikawa T, Kikuchi Y, Kitagawa M, Fujii Y, Nariuchi H, Uetake H, Sugihara K. Decline of T Cell-related immune functions in cancer patients and an attempt to restore them through infusion of activated autologous T cells. *Mech Ageing Dev* 130:86-91, 2009.
8. Koyama M, Wachi M, Utsuyama M, Bittman B, Hirokawa K, Kitagawa M. Recreational music-making modulates

immunological responses and mood states in older adults. *J Med Dent Sci* 56:79-90, 2009.