Laboratory Medicine

1. Staffs and Students (April, 2009)

Professor	Nobuo NARA	
Associate Professor	Shuji TOHDA	
Research Associate	Mai ITOH	
Graduate Students	Lu FU,	Noriko KAWAGUCHI,
	Yuki OKUHASHI	

2. Purpose of Education

Main objective of Laboratory Medicine in the graduate course is to provide students opportunity to study analysis of pathophysiology, development of new diagnostic tests, and establishment of diagnosis-supporting system using laboratory tests. We focus on the analysis of pathophysiology of hematological malignancies and the development of molecular diagnostic tests for cancer and infectious diseases.

3. Research Subjects

1) Mechanism of abnormal growth of acute leukemia cells
2) Molecular diagnostic tests for cancer and infectious diseases
3) Detection of minimal residual leukemia or lymphoma cells

4. Clinical Services

We are developing new diagnostic methods collaborating with various clinical departments. We are also supporting them in their diagnostic procedure.

5. Publications

Original Article

1. Nara N, Beppu M, Tohda S, Suzuki T. The introduction and effectiveness of simulation-based learning in medical education. Intern Med. 2009;48:1515-1519.
2. Kawahara T, Kawaguchi-Ihara N, Okuhashi Y, Itoh M, Nara N, Tohda S. Cyclopamine and quercetin suppress the growth of leukemia and lymphoma cells. Anticancer Res. 2009;29:4629-4632.
3. Fu L, Katsube K, Tohda S. Transition of cleaved Notch1 and gene expression changes in myeloblastic leukemia cells stimulated with notch ligands. Anticancer Res. 2009;29:3967-3970
4. Itoh M, Fu L, Tohda S. NF-kappaB activation induced by Notch ligand stimulation in acute myeloid leukemia cells. Oncol Rep. 2009 ;22:631-634.
5. Suzuki T, Beppu M and Nara N. Emerging issues in clinical skills laboratories in Japan. The Clinical Teacher 2009;6:135-138.