

## Laboratory Medicine

### 1. Staffs and Students (April, 2010)

Professor	Nobuo NARA	
Associate Professor	Shuji TOHDA	
Research Associate	Mai ITOH	
Graduate Students	Yuki OKUHASHI,	Tomohiro ISHIGAKI

### 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) Mechanism of abnormal growth of lymphoma cells
- 4) 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. Okuhashi Y, Nara N, Tohda S. Effects of gamma-secretase inhibitors on the growth of leukemia cells. *Anticancer Res.* 2010;30:495-498.
2. Ishigaki T, Sasaki K, Watanabe K, Nakamura N, Toyota S, Kobayashi H, Tohda S. Amplification of IGH/CCND1 fusion gene in a primary plasma cell leukemia case. *Cancer Genet Cytogenet.* 2010;201:62-65.
3. Okuhashi Y, Itoh M, Arai A, Nara N, Tohda S. Gamma-secretase inhibitors induce erythroid differentiation in erythroid leukemia cell lines. *Anticancer Res.* 2010;30:4071-4074.