

Integrated Pulmonology

1. Staffs and Students (December, 2010)

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	Tsukasa OKAMOTO,	Mayuko TAO,
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2. Purpose of Education

Integrated pulmonology is a branch of internal medicine which deals with a variety of pulmonary diseases including tumors, infectious diseases, allergic diseases, non-allergic inflammatory diseases, and genetic disorders. Main objective of integrated pulmonology in the graduate course is to provide students to study specific diagnostic modalities as well as basic scientific findings regarding the pathogenesis of pulmonary diseases. Students are also taught on basic science and its related laboratory technology depending upon their research subject.

3. Research Subjects

- 1) Pathogenesis of hypersensitivity pneumonitis and detection of environmental causative antigen
- 2) Airway remodeling in bronchial asthma model
- 3) Acute exacerbation in pulmonary fibrosis
- 4) Proteomics of pulmonary fibrosis
- 5) Pathogenesis of pulmonary fibrosis and emphysema

4. Clinical Services

Integrated pulmonology clinic provides a full spectrum of diagnosis and treatment of a variety of pulmonary diseases. Consultant system is open to all departments in this hospital and daily clinical conference regarding inpatients is organized by professors of the department. In outpatient clinic, chemotherapy, home oxygen therapy, support for ceasing smoke, management of sleep apnea, and arrange of clinical studies are provided.

5. Publications

Original Article

1. Kuramochi J, Inase N, Takayama K, Miyazaki Y, Yoshizawa Y: Detection of indoor and outdoor avian antigen in management of bird-related hypersensitivity pneumonitis. *Allergol Int* 59: 223-228, 2010.
2. Furuie M, Yoshimura N, Kobayashi A, Tamaoka M, Miyazaki Y, Ohtani Y, Miyake S, Inase N, Yoshizawa Y: Churg-Strauss syndrome versus chronic eosinophilic pneumonia on high-resolution computed tomographic findings. *J Comput Assist Tomogr* 34: 19-22, 2010.
3. Ohba T, Motoi N, Kimura Y, Okumura S, Kawabata K, Yoshizawa Y, Inase N, Ishikawa Y: Cytokeratin expression profiling is useful for distinguishing between primary squamous cell carcinoma of the lung and pulmonary metastases from tongue cancer. *Pathol Int* 60: 575-580, 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: 613-620, 2010.
5. Jinn Y, Inase N: Connexin43, E-cadherin, β -catenin and ZO-1 expression, and aberrant methylation of the connexin43 gene in NSCLC. *Anticancer Res* 30: 2271-2278, 2010.
6. Mitaka K, Miyazaki Y, Yasui M, Furuie M, Miyake S, Inase N, Yoshizawa Y: Th2-biased immune responses are important in a murine model of chronic hypersensitivity pneumonitis. *Int Arch Allergy Immunol* 154: 264-274, 2011.
7. Shirahama R, Miyazaki Y, Okamoto T, Inase N, Yoshizawa Y: Proteome analysis of bronchoalveolar lavage fluids in

lung fibrosis associated with systemic sclerosis. *Allergol Int* 59: 409-415, 2010.

8. Okayasu K, Tamaoka M, Takayama S, Miyazaki Y, Sumi Y, Inase N, Yoshizawa Y: RANTES expression induced by Toll-like receptor 4 ligand in rat airway smooth muscle cells. *J Med Dent Sci* 57: 193-201, 2010.