

Human Gene Sciences Center (Signal Gene Regulation)

1. Staff and Student

Professor	Masataka NAKAMURA (Director)	
Junior Associate Professor	Noriko FUNATO	
Assistant Professor	Toshifumi HARA	
Postdoctoral Fellow	Mariko MIZUGUCHI (April~)	
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2. Purpose of Education

The aim of Human Gene Sciences Center is to provide laboratory equipment, room and information for researches in advanced molecular and cellular biology. In educational objectives in the graduate school, our Center gives lecture, seminar, training course and individual assistance in research fields of molecular genetics, immunology and virology.

3. Research Subject

- 1) Molecular mechanism of tumorigenesis by human T-cell leukemia virus type I (HTLV-I).
- 2) Roles of transcription factors in cell differentiation.
- 3) Implication of prostaglandin D2 receptor (CRTH2) in allergy reactions.

5. Publications

Original Article

1. Shimura, C., Satoh, T., Aritake, K., Urade, Y., Nakamura, M., Yokozeki, H. Human dendritic cells express hematopoietic prostaglandin D synthase and function as a source of prostaglandin D2 in the skin. *Amer. J. Pathol.* 176: 227-237, 2010.
2. Eguchi, M., Kariya, S., Mitsuhiro Okano, M., Higaki, T., Makihara, S., Fujiwara, T., Nagata, K., Hirai, H., Narumiya, S., Nakamura, M., Nishizaki, K. Lipopolysaccharide induces pro-inflammatory cytokines and chemokines in experimental otitis media through the prostaglandin D2 receptor (DP)-dependent pathway. *Clin. Exp. Immunol.* 163: 260-269, 2010.
3. Oba, R., Orihara, K., Kumagai, T., Hirai, H., Nagata, K., Hamasaki, S., Tei, C., Nakamura, M. Reevaluation of quantitative flow cytometric analysis for TLR2 on monocytes using F(ab)² fragments of monoclonal antibodies. *Cytometry*, DOI: 10.1002/cyto.a.21000, 2010.