

## Human Gene Sciences Center (Signal Gene Regulation)

### 1. Staff and Student

Professor	Masataka NAKAMURA (Director)	
Junior Associate Professor	Kiyoshi OHTANI (~March)	
Junior Associate Professor	Noriko FUNATO (April~)	
Assistant Professor	Toshifumi HARA	
Postdoctoral Fellow	Mizue OHKUMA (January~March)	
Postdoctoral Fellow	Galina BATURINA (June~December)	
Graduate Student	Terumi MIZUKOSHI,	Mariko MIZUGUCHI,
	Ryutaro OHBA,	Yating WANG,
	Shigeru HASUNUMA	

### 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. Funato, N., S. Chapman, MD. Mckee, H. Funato, JA. Morris, JM. Shelton, JA. Richardson and H. Yanagisawa: Hand2 controls osteoblast differentiation in the branchial arch by inhibiting DNA binding of Runx2. *Development*. 136: 615-625, 2009.
2. Mizuguchi, M., H. Asa, T. Hara, M. Higuch, M. Fujii, M. Nakamura: Transcriptional activation of the interleukin-21 gene and its receptor gene by human T-cell leukemia virus type 1 Tax in human T-cells. *J. Biol. Chem.* 284: 25501-25511, 2009.
3. Ozono, E., H. Komori, R. Iwanaga, MA. Ikeda, S. Iseki and K. Ohtani: E2F-like elements in p27Kip1 promoter specifically sense deregulated E2F activity. *Genes Cells*. 14: 89-99, 2009.