

## CURRICULUM VITAE



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**Position:** Professor  
in Division of Cancer Cell Biology

**Institution:** Cancer Research Institute, Kanazawa University

**Location:** Kakuma-machi, Kanazawa city 920-1192  
Japan

### Education:

1989 M.D., Kanazawa University, Kanazawa, Japan

1993 Ph.D., The University of Tokyo, Graduate School of Medicine, Tokyo, Japan

### Representative Careers:

1993-1998 Assistant Professor, Institute of Medical Science (IMSUT), The University of Tokyo, Japan

1998-2001 Visiting Scientist, Department of Pharmacology, New York University School of Medicine, New York, USA (Prof. Joseph Schlessinger)

2001-2005 Lecturer, IMSUT, The University of Tokyo, Tokyo, Japan

2005-2013 Associate Professor, IMSUT, The University of Tokyo, Tokyo, Japan

2013-present Professor, Division of Cancer Cell Biology, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

### Specialty & Present Interest:

Receptor tyrosine kinase, cancer stem cells, metabolism, breast cancer, lung cancer

### Representative papers (up to 5):

1. Sasahara A, Tominga K, Nishimura T, Yano M, Kiyokawa E, Noguchi Miki, Noguchi Masakuni, Kanauchi H, Ogawa T, Minato H, Tada K, Seto Y, Tojo A, Gotoh N.: An autocrine/paracrine circuit of growth differentiation factor (GDF) 15 has a role for maintenance of breast cancer stem-like cells. *Oncotarget*, 8, 24869-24881, 2017

2. Tominaga K, Shimamura T, Kimura N, Murayama T, Matsubara D, Kanauchi H, Niida A, Shimizu S, Nishioka K, Tsuji E, Yano M, Sugano S, Shimono Y, Ishii H, Saya H, Mori M, Akashi K, Tada K, Ogawa T, Tojo A, Miyano S, Gotoh N: Addiction to the IGF2-ID1-IGF2 circuit for maintenance of the breast cancer stem-like cells. *Oncogene*, 36,1276-1286, 2017.
3. Murayama T, Nakaoku T, Enari T, Nishimura T, Tominaga K, Nakata A, Tojo A, Sugano S, Kohno T, Gotoh N: Oncogenic fusion gene CD74-NRG1 confers cancer stem cell-like properties in lung cancer through a IGF2 autocrine/paracrine circuit, *Cancer Res*, 76, 974-983, 2016.
4. Nakata A, Yoshida R, Yamaguchi R, Yamauchi M, Tamada Y, Fujita A, Shimamura T, Imoto S, Higuchi T, Nomura M, Kimura T, Nokihara H, Higashiyama K, Kondoh K, Nishihara H, Tojo A, Yano S, Miyano S, Gotoh N: Elevated beta-catenin pathway as a novel target for patients with resistance to EGF receptor targeting drugs. *Sci Rep*, 5, 13076, 2015.
5. Hinorara K, Kobayashi S, Kanauchi H, Shimizu S, Nishioka K, Tsuji E, Tada K, Umezawa K, Mori M, Ogawa T, Inoue J, Tojo A. & Gotoh N: ErbB/NF- $\kappa$ B signaling controls mammosphere formation in human breast cancer. *Proc. Natl. Acad. Sci., USA*, 109, 6584-6589, 2012.