Naoki Oshimori, Ph.D.

 Assistant Professor, Department of Cell, Development and Cancer Biology

Knight Cancer Institute, Oregon Health & Science University

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Position

**Assistant Professor** Portland, OR

Departments of Cell, Development and Cancer Biology, 2016-present

Dermatology, and Otolaryngology, Head & Neck Surgery

Knight Cancer Institute, Oregon Health & Science University (OHSU)

Education & Research Experience

**The Rockefeller University** New York, NY

Postdoctoral Fellow 2008-2015

Advisor: Dr. Elaine Fuchs

**Institute of Medical Science, The University of Tokyo** Tokyo, Japan

Ph.D., Department of Biophysics and Biochemistry 2003-2008

Advisor: Dr. Tadashi Yamamoto

**Chiba University** Chiba, Japan

B.Sc., Department of Biology 1999-2003

**Tokyo Medical and Dental University** Tokyo, Japan

Research Assistant 1999-2001

Fellowships and Awards

**K99/R00 NIH Pathway to Independence Award** 2013-2019

The National Cancer Institute (NCI)

**JSPS Postdoctoral Fellowship for Research Abroad** 2011-2013

Japan Society for the Promotion of Science (JSPS)

 **HFSP Long-Term Fellowship** 2008-2011

Human Frontier Science Program (HFSP)

**JSPS Research Fellowship for Young Scientist – DC1** 2005-2008

Japan Society for the promotion of Science (JSPS)

**Eugene M. Farber Travel Award for Young Investigator** 2015

Society for Investigative Dermatology, Gleneden Beach, Oregon

**ISSCR 10th Annual Meeting Travel Award** 2012

International Society for Stem Cell Research, Yokohama, Japan

**The 14th East Asia Joint Symposium on Biomedical Research – Best Presentation Award** 2007

Institute of Medical Science, The University of Tokyo

**The 7th International Chromosome Segregation and Aneuploidy Workshop – Speaker Award** 2007

Naantali, Finland

**The 1st Shirokane International Symposium – Young Scientist Award** 2005

Institute of Medical Science, The University of Tokyo

**Publications**

Taniguchi S, Elhance A, Van Duzer A, Kumar S, Leitenberger JJ, **Oshimori N**.(2020) Tumor-initiating cells establish an IL-33–TGF-β niche signaling loop to promote cancer progression. *Science* 369: eaay1813.

\*Van Duzer A, \*Taniguchi S, Elhance A, Tsujikawa T, **Oshimori N**. (2019). ADAP1 promotes invasive squamous cell carcinoma progression and predicts patient survival. *Life Sci Alliance* 2: e201900582.

Liu WC, Kohn J, Szwed SK, Pariser E, Sepe S, Haripal B, **Oshimori N**, Marsala M, Miyanohara A, Lee R. (2015). Human mutant huntingtin disrupts vocal learning in transgenic songbirds. *Nat Neurosci* 18:1617-1622.

**Oshimori N**, Oristian D, Fuchs E. (2015). TGF-β promotes heterogeneity and drug resistance in squamous cell carcinoma. *Cell* 160:963-976.

Beronja S, Janki P, Heller E, Lien WH, Keyes BE, **Oshimori N**, Fuchs E. (2013). RNAi screens in mice identify physiological regulators of oncogenic growth. *Nature* 501:185-190.

**Oshimori N**, Fuchs E. (2012). The harmonies played by TGF-β in stem cell biology. *Cell Stem Cell* 11: 751-764 [*Review article*].

Chen T, Heller E, Beronja S, **Oshimori N**, Stokes N, Fuchs E. (2012). An RNA interference screen unveils a new molecule in stem sell self-renewal and long-term regeneration. *Nature* 485:104-108.

**Oshimori N**, Fuchs E. (2012). Paracrine TGF-β signaling counterbalances BMP-mediated repression in hair follicle stem cell activation. *Cell Stem Cell* 10:63-75.

**Oshimori N**, Li X, Ohsugi M, Yamamoto T. (2009). Cep72 regulates the localization of key centrosomal proteins and proper bipolar spindle formation. *EMBO J* 28:2066-2076.

Kakugawa S, Shimojima M, Goto H, Horimoto T, **Oshimori N**, Neumann G, Yamamoto T, Kawaoka Y. (2009). Mitogen-activated protein kinase-activated kinase RSK2 plays a role in innate immune responses to influenza virus infection. *J Virol*83:635-646.

**Oshimori N**, Ohsugi M, Yamamoto T. (2006). The Plk1 target Kizuna stabilizes mitotic centrosomes to ensure spindle bipolarity. *Nat Cell Biol* 46:219-232.

**Conference Talks and Invited Lectures**

FASEB Research Conference ‘TGF-β Superfamily: Signaling in Development and Disease’ (2019). West Palm Beach, Florida. ‘Tumor-initiating cell-driven IL-33-TGF-β niche signaling loop in invasive cancer progression’. *Selected Talk*

Pacific Northwest Tumor Microenvironment Symposium (2018). Portland, Oregon. ‘Bi-directional paracrine signaling in tumor-promoting stem cell niche’. *Invited Speaker*

The 66th annual Montagna Symposium on the Biology of Skin (2017). Stevenson, Washington. ‘Molecular characterization of TGF-β-responding cancer stem cell signature genes’. *Selected Talk*

The 2nd Symposium on ‘Tumor Metabolism meets Immunology’ (2016). Regensburg, Germany. ‘TGF-β promotes tumor heterogeneity and drug resistance of cancer stem cells’. *Invited Speaker*

The 64th annual Montagna Symposium on the Biology of Skin (2015). Gleneden Beach, Oregon. ‘TGF-β signaling in cancer stem cells: Tumor heterogeneity and drug resistance’. *Selected Talk*

International Symposium on Integrative Research on Cancer Microenvironment (2015). Tokyo, Japan. ‘TGF-β signaling in cancer stem cells: Tumor heterogeneity and drug resistance’. *Keynote Speaker*

Symposium on the Future of Cancer Science (2015). MD Anderson Cancer Center, Houston. ‘TGF-β signaling in cancer stem cells: Tumor heterogeneity and drug resistance’. *Invited Speaker*

FASEB Research Conference ‘TGF-β Superfamily: Signaling in Development and Disease’ (2015). Snowmass, Colorado. ‘TGF-β signaling in cancer stem cells: Tumor heterogeneity and drug resistance’. *Selected Talk*

EMBO/EMBL Symposium ‘Frontiers in Stem Cells and Cancer’ (2015). Heidelberg, Germany. ‘TGF-β signaling in tumour heterogeneity and drug resistance of cancer stem cells.’ *Selected Talk*

The University of Tokyo and OIST Special Joint Seminar (2012). Tokyo, Japan. ‘Paracrine TGF-β signaling counterbalances BMP-mediated repression in hair follicle stem cell activation’. *Invited Speaker*

The 14th East Asia Joint Symposium on Biomedical Research (2007). Tokyo, Japan. ‘A novel Plk1 substrate complex that controls spindle pole integrity’. *Selected Talk*

The 7th International Chromosome Segregation and Aneuploidy Workshop (2007). Naantali, Finland. ‘A novel Plk1 substrate that control centrosome dynamics’. *Invited Speaker*

Cold Spring Harbor Laboratory Meeting ‘The Cell Cycle’ (2006). Cold Spring Harbor, New York. ‘Kizuna, a new Plk1 target, stabilizes mitotic centrosomes to ensure bipolar spindle organization’. *Selected Talk*