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Nationality	Japan	
Organization	Faculty of Medicine, Fukuoka University	
Position	Dean, Professor and Chairman	
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Specialty		
Islet Transplantation, Xenotransplantation, Cell Transplantation Lymphangiogenesis, Tissue Engineering , Transplant Immunology		
Education		
1990: M.D., Fukuoka University School of Medicine, Fukuoka, Japan. 2000: Ph.D., Graduate School of Fukuoka University, Fukuoka, Japan.		
Experience		
1994-1995: Resident in Gastroenterology Surgery, Aichi Cancer Center Hospital, Aichi, Japan. 1995-1996: Chief Resident in Gastroenterology Surgery, Aichi Cancer Center Hospital, Aichi, Japan. 2000-2003: Postdoctoral Fellow, Immunobiology Laboratory, Department of Immunobiology Laboratory, Massachusetts General Hospital, Harvard Medical School, MA, U.S.A. 2003-2007: <i>Instructor</i> , Immunobiology Laboratory, Diabetes Unit, Department of Medicine, Massachusetts General Hospital, Harvard Medical School and Harvard Medical School, MA, U.S.A. 2007-2009: <i>Assistant Professor</i> , Tissue Engineering and Regenerative Medicine, Brigham and Women' s Hospital, , Harvard Medical School and Harvard Medical School, MA, U.S.A.. 2009-2014: <i>Associate Professor</i> , Department of Regenerative Medicine &		

Transplantation, Faculty of Medicine, Fukuoka University

2014-Present: *Professor and Chairman*, Department of Regenerative Medicine &

Transplantation, Faculty of Medicine, Fukuoka University

Professor, Center for Regenerative Medicine, Fukuoka University

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2019-Present: *Dean*, Faculty of Medicine, Fukuoka University

Honors / Awards

2004 Sjögren' s Syndrome Foundation (Bethesda, MD)

2004 Young Investigator Research Award (Eboshi Association Presented, Japan)

Selected Publications

2023 Sakata N, Yoshimatsu G, Kawakami R, Chinen K, Aoyagi C, Kodama S. *Tissue Eng Part C Methods*. 2023, 29(4):144-153.

2022 Xenotransplantation of neonatal porcine bone marrow- derived mesenchymal stem cells. improves diabetic wound healing by promoting angiogenesis and lymphangiogenesis.

Yamada H, Naito R, Nishimura M, Kawakami R, Morinaga E, Morita Y, Shimizu M, Yoshiatsu G, Sawamoto O, Matsumoto S, Imafuku S, Sakata N, *Kodama S. *Xenotransplantation*. 2022, 29(2):e12739.

2022 CCN2-induced lymphangiogenesis is mediated by the integrin $\alpha\beta 5$ -ERK pathway and regulated by DUSP6. Hashiguchi S, Tanaka T, Mano R, Kondo S, *Kodama S. *Sci Rep*. 2022, 12(1): 926.

2022 Possibility of adiponectin use to improve islet transplantation outcomes. Sakata N, Yoshimatsu G, Chinen K, KawakamiR, Kodama S. *Sci Rep*. 2022, 12(1): 444.

2021 Therapeutic effects of acylated ghrelin-specific receptor GHS-R1a antagonist in islet transplantation. Chinen K, Sakata N, Yoshimatsu G, Nakamura M, Kodama S. *Sci Rep*. 2021, 11(1):21239.

2021 Fat-Covered Islet Transplantation using Epididymal White Adipose Tissue. Sakata N, Yoshimatsu G, Kawakami R, Kodama S. *J Vis Exp*. 2021, doi:10.3791 /62096.

2021 Xenotransplantation of neonatal porcine bone marrow-derived mesenchymal stem cells improves murine hind limb ischemia through lymphangiogenesis and angiogenesis. Yamada H, Sakata N, Nishimura M, Tanaka T, Shimizu M, Yoshimatsu G, Kawakami R, Wada H, Sawamoto O, Matsumoto S, *Kodama S. *Xenotransplantation*. 2021, 28(4): e12693.

2020 Inhibition of NLRP3 inflammasome by MCC950 improves the metabolic outcome of islet transplantation by suppressing IL-1 β and islet cellular death. Matsuoka T, Yoshimatsu G, Sakata N, Kawakami R, Tanaka T, Yamada T, Yoshida Y, Hasegawa S, Kodama S. *Sci Rep*. 2020, 10(1):17920. (doi: 10.1038/s41598-020-74786-3.)

2020 Mechanism of Transplanted Islet Engraftment in Visceral White Adipose Tissue. Sakata N, Yoshimatsu G, Tanaka T, Yamada T, Kawakami R, Kodama S. *Transplantation*. 2020,

104(12):2516-2527.

- 2019 Development and Characteristics of Pancreatic Epsilon Cells. Sakata N, Yoshimatsu G, **Kodama S.** *Int J Mol Sci.* 2019, 20(8):1867. (doi: 10.3390/ijms20081867.)
- 2019 Regenerative and Transplantation Medicine: Cellular Therapy Using Adipose Tissue-Derived Mesenchymal Stromal Cells for Type 1 Diabetes Mellitus. Takahashi H, Sakata N, Yoshimatsu G, Hasegawa S, ***Kodama S.** *J Clin Med.* 2019, 15;8(2):249. (doi: 10.3390/jcm8020249.)
- 2019 The Spleen as an Optimal Site for Islet Transplantation and a Source of Mesenchymal. Stem Cells. Sakata N, Yoshimatsu G, ***Kodama S.** *Int J Mol Sci.* 2018, 19(5):1391. (doi: 10.3390/ijms19051391.)
- 2017 Spleen is an ideal site for inducing expansion of transplanted islet grafts in mice. Itoh T., Nishinakamura H., Kumano K., Takahashi H.,***Kodama S.** *PLOS ONE*, 2017, 12(1): e0170899.
- 2016 Islet-derived damage-associated molecular pattern molecule contributes to immune responses following microencapsulated neonatal porcine islet xenotransplantation in mice. Itoh T., Hata Y., Nishinakamura H., Kumano K., Takahashi H., ***Kodama S.** *Xenotransplantation*, 2016, 23:393-404.
- 2011 KK β Regulates Essential Functions of Vascular Endothelium Through Kinase-Dependent and – Independent Pathways. Ashida N., SenBanerjee S., **Kodama S.**, Foo SY., Coggins M., Spencer J., Zamiri P., Shen D., Li L., Sciuto T., Dvorak A., Gerszten RE., Lin C., Karin M., Rosenzweig A., *Nat Commun*, 2011, 2: 318.
- 2009 Engineering functional islets from cultured cells. ***Kodama S.**, Kojima K., Furuta S., Chambers M., Paz AC., Vacanti CA. *Tissue Eng*, 2009, 15(11):3321-9.
- 2005 Vascular endothelial growth factor-A induces tumor and sentinel lymph node lymphangiogenesis and promotes lymphatic metastasis. Hirakawa S., **Kodama S.**, Kunstfeld R., Brown L., Detmar M. *J Exp Med* 2005, 201(7): 1089-1099. (Cover Issue)
- 2003 Islet Regeneration during the reversal of autoimmune diabetes in NOD mice. **Kodama S.**, Kuhlreiber W., Fujimura S., Dale E., Fautman DL, *Science* 2003 14; 302: 1223-7.
- 2001 Reversal of established autoimmune diabetes by restoration of endogenous beta cell. function. Ryu S., **Kodama S.**, Ryu K., Schoenfeld DA., Fautman DL. (R.S. & S.K. contributed equally to this work.) *J Clin Invest* 2001, 108(1):63-72. (Cover Issue)
- 2000 LMP2 expression and proteasome activity in NOD mice. Hayashi T., **Kodama S.**, Faustman DL. (T.H. & S.K. contributed equally to this work.) *Nat Med* 2000, 6(10):1065-6.