




Curriculum Vitae

** CV must be written in English*

Personal Information	
Title (i.e. Pf., Dr., etc.)	Professor
Name (First Name/ Middle Name /Last Name)	Toshiro Sato
Degree (i.e. MD, MSc, PhD, etc.)	MD, PhD
Country	Japan
Affiliation	Keio University
E-mail	tsato1124@gmail.com
	
Educational Background	
4/1991-3/1997	MD Keio University School of Medicine
4/1997-3/1999	Internship, Keio University Hospital
4/1999-3/2003	Internal Medicine, Graduate school, School of Medicine, Keio University
4/2004	PhD
Professional Career	
4/1997-3/1999	Intern, Department of Medicine, Keio University Hospital
4/2003-9/2005	Resident, Department of Gastroenterology, Keio University Hospital
9/2004-8/2005	COE Postdoctoral Researcher, Keio University School of Medicine (Supervisor: Hideyuki Okano)
9/2005-4/2006	Resident, TEPCO Hospital
4/2006-4/2007	Postdoctoral Researcher, Stowers Institute, Kansas City (Supervisor: Linheng Li)
6/2007-3/2011	Postdoctoral Researcher, Hubrecht Institute, Utrecht, the Netherlands (Supervisor: Hans Clevers)
4/2011-3/2013	Assistant Professor, Department of Gastroenterology, Keio University School of Medicine
4/2013-10/2018	Associate Professor, Department of Gastroenterology, Keio University School of Medicine
11/2018-3/2023	Professor, Department of Organoid Medicine, Keio University School of Medicine
4/2023-Present	Professor, Department of Integrated Medicine and Biochemistry, Keio University School of Medicine
Research Field	
Organoids, GI Cancer and Wnt Signal	
Main Scientific Publications	
<i>Main Achievements (10 max)</i>	
1. Tamagawa H, Fujii M, Togasaki K, Seino T, Kawasaki S, Takano A, Toshimitsu K, Takahashi S, Ohta Y, Matano M, Kawasaki K, Machida Y, Sekine S, Machinaga A, Sasai K, Kodama Y, Kakiuchi N, Ogawa S, Hirano T, Seno H, Kitago M, Kitagawa Y, Iwasaki E, Kanai T, Sato T* . Wnt-deficient and hypoxic environment orchestrates squamous reprogramming of human pancreatic ductal adenocarcinoma. Nature Cell Biol. 2024 Sep 4. doi: 10.1038/s41556-024-01498-5.	
2. Fujii M*, Sekine S, Sato T* . Decoding the basis of histological variation in human cancer. Nature Review Cancer. 2024; 24:141-158.	



3. Ohta Y, Fujii M, Takahashi S, Takano A, Nanki K, Matano M, Hanyu H, Saito M, Shimokawa M, Nishikori S, Hatano Y, Ishii R, Sawada K, Machinaga A, Ikeda W, Imamura T, **Sato T***, Cell-matrix interface regulates dormancy in human colon cancer stem cells. **Nature**. 2022; 608:784-794.
4. Toshimitsu K, Takano A, Fujii M, Togasaki K, Matano M, Takahashi S, Kanai T, Sato T*, Organoid screening reveals epigenetic vulnerabilities in human colorectal cancer. **Nature Chem Biol**. 2022;18: 605-614.
5. Sugimoto S, Kobayashi E, Fujii M, Ohta Y, Arai K, Matano M, Ishikawa K, Miyamoto K, Toshimitsu K, Takahashi S, Nanki K, Hakamata Y, Kanai T, **Sato T***. An organoid-based organ repurposing approach to treat short bowel syndrome. **Nature**. 2021:99-104.
6. Kawasaki K, Toshimitsu K, Matano M, Fujita M, Fujii M, Togasaki K, Ebisudani T, Shimokawa M, Takano A, Takahashi S, Ohta Y, Nanki K, Igarashi R, Ishimaru K, Ishida H, Sukawa Y, Sugimoto S, Saito Y, Maejima K, Sasagawa S, Lee H, Kim HG, Ha K, Hamamoto J, Fukunaga K, Maekawa A, Tanabe M, Ishihara S, Hamamoto Y, Yasuda H, Sekine S, Kudo A, Kitagawa Y, Kanai T, Nakagawa H, **Sato T***. An Organoid Biobank of Neuroendocrine Neoplasms Enables Genotype-Phenotype Mapping. **Cell**. 2020; :1420-1435.
7. Nanki K, Fujii M, Shimokawa M, Matano M, Nishikori S, Date S, Takano A, Toshimitsu K, Ohta Y, Takahashi S, Sugimoto S, Ishimaru K, Kawasaki K, Nagai Y, Ishii R, Yoshida K, Sasaki N, Hibi T, Ishihara S, Kanai T, **Sato T***. Somatic inflammatory gene mutations in human ulcerative colitis epithelium. **Nature**. 2020;577:254-259.
8. Fujii M, Matano M, Toshimitsu K, Takano A, Mikami Y, Nishikori S, Sugimoto S, **Sato T***. Human Intestinal Organoids Maintain Self-Renewal Capacity and Cellular Diversity in Niche-Inspired Culture Condition. **Cell Stem Cell**. 2018 ;23:787-793.
9. Nanki K, Toshimitsu K, Takano A, Fujii M, Shimokawa M, Ohta Y, Matano M, Seino T, Nishikori S, Ishikawa K, Kawasaki K, Togasaki K, Takahashi S, Sukawa Y, Ishida H, Sugimoto S, Kawakubo H, Kim J, Kitagawa Y, Sekine S, Koo BK, Kanai T, **Sato T***. Divergent Routes toward Wnt and R-spondin Niche Independency during Human Gastric Carcinogenesis. **Cell**. 2018; 174:856-869.
10. Shimokawa M, Ohta Y, Nishikori S, Matano M, Takano A, Fujii M, Date S, Sugimoto S, Kanai T, **Sato T***. Visualization and targeting of LGR5+ human colon cancer stem cells. **Nature** 2017; 545:187-192.

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