




## Curriculum Vitae

*\* CV must be written in English*

| Personal Information  |                     |
|---|---------------------|
| Title<br>(i.e. Pf., Dr., etc.)  | Professor           |
| Name<br>(First Name/ Middle Name /Last Name)  | Toshiro Sato        |
| Degree<br>(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<br>4/1997-3/1999 Internship, Keio University Hospital<br>4/1999-3/2003 Internal Medicine, Graduate school, School of Medicine, Keio University<br>4/2004 PhD  |                     |
| Professional Career   |                     |
| 4/1997-3/1999 Intern, Department of Medicine, Keio University Hospital<br>4/2003-9/2005 Resident, Department of Gastroenterology, Keio University Hospital<br>9/2004-8/2005 COE Postdoctoral Researcher, Keio University School of Medicine<br>(Supervisor: Hideyuki Okano)<br>9/2005-4/2006 Resident, TEPCO Hospital<br>4/2006-4/2007 Postdoctoral Researcher, Stowers Institute, Kansas City<br>(Supervisor: Linheng Li)<br>6/2007-3/2011 Postdoctoral Researcher, Hubrecht Institute, Utrecht, the Netherlands<br>(Supervisor: Hans Clevers)<br>4/2011-3/2013 Assistant Professor, Department of Gastroenterology, Keio University School of Medicine<br>4/2013-10/2018 Associate Professor, Department of Gastroenterology, Keio University School of Medicine<br>11/2018-3/2023 Professor, Department of Organoid Medicine, Keio University School of Medicine<br>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  |                     |
| <ol style="list-style-type: none"> <li>Tamagawa H, Fujii M, Togatani 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, <u>Sato T*</u>. 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.</li> <li>Fujii M*, Sekine S, <u>Sato T*</u>. Decoding the basis of histological variation in human cancer. Nature Review Cancer. 2024; 24:141-158.</li> </ol>  |                     |



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.