

# Stanford

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## Kazuma Sekiba, MD, PhD

Postdoctoral Scholar, Pathology

### Bio

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#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- Basic Research Award, The 2023 Stanford Pathology Research Retreat (Nov. 2023)
- Basic Research Award, The 2022 Stanford Pathology Research Retreat (Nov. 2022)
- Early Career Investigator Award in Basic Science, American Association for the Study of Liver Diseases (AASLD) The Liver Meeting 2019 (Nov. 2019)
- Gilead Sciences Award, Japanese Society of Hepatology (Nov. 2019)
- Basic Science Travel Award, Digestive Disease Week (DDW) 2019 (May 2019)
- Early Career Investigator Award in Basic Science, American Association for the Study of Liver Diseases (AASLD) The Liver Meeting 2018 (Nov. 2018)
- Poster Award, Falk Symposium 212 (Sep. 2018)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University Of Tokyo (2020)
- Doctor of Medicine, Yokohama City University (2011)
- Board Certification, Japan Society of Hepatology , Hepatology (2019)
- Board Certification, Japan Gastroenterological Endoscopy Society , Gastroenterological Endoscopy (2018)
- Board Certification, Japanese Board of Cancer Therapy , Oncology (2017)
- Board Certification, Japanese Society of Gastroenterology , Gastroenterology (2017)

#### STANFORD ADVISORS

- Dylan Dodd, Postdoctoral Faculty Sponsor

#### LINKS

- Dodd Lab Website: <https://www.doddlab.org/>

### Publications

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#### PUBLICATIONS

- **Satellite double-stranded RNA induces mesenchymal transition in pancreatic cancer by regulating alternative splicing.** *The Journal of biological chemistry*  
Iwata, T., Kishikawa, T., Seimiya, T., Notoya, G., Suzuki, T., Shibata, C., Miyakawa, Y., Odawara, N., Funato, K., Tanaka, E., Yamagami, M., Sekiba, K., Otsuka, et al

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- **A small molecule iCDM-34 identified by in silico screening suppresses HBV DNA through activation of aryl hydrocarbon receptor.** *Cell death discovery*  
Furutani, Y., Hirano, Y., Toguchi, M., Higuchi, S., Qin, X., Yanaka, K., Sato-Shiozaki, Y., Takahashi, N., Sakai, M., Kongpracha, P., Suzuki, T., Dohmae, N., Kukimoto-Niino, et al  
2023; 9 (1): 467
- **Cabozantinib inhibits HBV-RNA transcription by decreasing STAT3 binding to the enhancer region of cccDNA.** *Hepatology communications*  
Funato, K., Miyake, N., Sekiba, K., Miyakawa, Y., Seimiya, T., Shibata, C., Kishikawa, T., Otsuka, M.  
2023; 7 (11)
- **A widely distributed gene cluster compensates for uricase loss in hominids.** *Cell*  
Liu, Y., Jarman, J. B., Low, Y. S., Augustijn, H. E., Huang, S., Chen, H., DeFeo, M. E., Sekiba, K., Hou, B. H., Meng, X., Weakley, A. M., Cabrera, A. V., Zhou, et al  
2023; 186 (16): 3400-3413.e20
- **UNBIASED MAPPING OF GUT MICROBIAL PATHWAYS THAT CONTRIBUTE TO INTESTINAL HEALTH**  
Sekiba, K., Hou, B., Chen, H., Liu, Y., Dodd, D.  
W B SAUNDERS CO-ELSEVIER INC.2023: S88
- **Combination of serum human satellite RNA and miR-21-5p levels as a biomarker for pancreatic cancer.** *iScience*  
Seimiya, T., Suzuki, T., Iwata, T., Kishikawa, T., Sekiba, K., Shibata, C., Ishigaki, K., Fujiwara, H., Oyama, H., Kanai, S., Sato, T., Nakai, Y., Ishibashi, et al  
2023; 26 (2): 106021
- **The RNA-Binding Protein ELAVL1 Regulates Hepatitis B Virus Replication and Growth of Hepatocellular Carcinoma Cells.** *International journal of molecular sciences*  
Kanzaki, H., Chiba, T., Kaneko, T., Ao, J., Kan, M., Muroyama, R., Nakamoto, S., Kanda, T., Maruyama, H., Kato, J., Zen, Y., Kotani, A., Sekiba, et al  
2022; 23 (14)
- **Hepatitis B virus-associated hepatocellular carcinoma with Smc5/6 complex deficiency is susceptible to PARP inhibitors.** *Biochemical and biophysical research communications*  
Funato, K., Otsuka, M., Sekiba, K., Miyakawa, Y., Seimiya, T., Shibata, C., Kishikawa, T., Fujishiro, M.  
2022; 607: 89-95
- **HBx-induced degradation of Smc5/6 complex impairs homologous recombination-mediated repair of damaged DNA** *JOURNAL OF HEPATOLOGY*  
Sekiba, K., Otsuka, M., Funato, K., Miyakawa, Y., Tanaka, E., Seimiya, T., Yamagami, M., Tsutsumi, T., Okushin, K., Miyakawa, K., Ryo, A., Koike, K.  
2022; 76 (1): 53-62
- **Humanized virus-suppressing factor inhibits hepatitis B virus infection by targeting viral cell entry** *HELIYON*  
Miyakawa, Y., Otsuka, M., Sekiba, K., Funato, K., Koike, K.  
2021; 7 (7): e07586
- **Potential of HBx Gene for Hepatocarcinogenesis in Noncirrhotic Liver** *SEMINARS IN LIVER DISEASE*  
Sekiba, K., Otsuka, M., Koike, K.  
2021; 41 (02): 142-149
- **Mutant KRAS drives metabolic reprogramming and autophagic flux in premalignant pancreatic cells** *CANCER GENE THERAPY*  
Suzuki, T., Kishikawa, T., Sato, T., Takeda, N., Sugiura, Y., Seimiya, T., Sekiba, K., Ohno, M., Iwata, T., Ishibashi, R., Otsuka, M., Koike, K.  
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- **The simplified Kyoto classification score is consistent with the ABC method of classification as a grading system for endoscopic gastritis** *JOURNAL OF CLINICAL BIOCHEMISTRY AND NUTRITION*  
Nishizawa, T., Toyoshima, O., Kondo, R., Sekiba, K., Tsuji, Y., Ebinuma, H., Suzuki, H., Tanikawa, C., Matsuda, K., Koike, K.  
2021; 68 (1): 101-104
- **A single nucleotide polymorphism in Prostate Stem Cell Antigen is associated with endoscopic grading in Kyoto classification of gastritis** *JOURNAL OF CLINICAL BIOCHEMISTRY AND NUTRITION*  
Toyoshima, O., Nishizawa, T., Sekiba, K., Matsuno, T., Kondo, R., Watanabe, H., Suzuki, H., Tanikawa, C., Koike, K., Matsuda, K.  
2021; 68 (1): 73-77
- **The fatty-acid amide hydrolase inhibitor URB597 inhibits MICA/B shedding** *SCIENTIFIC REPORTS*

- Sekiba, K., Otsuka, M., Seimiya, T., Tanaka, E., Funato, K., Miyakawa, Y., Koike, K.  
2020; 10 (1): 15556
- **Aberrant expression of a novel circular RNA in pancreatic cancer** *JOURNAL OF HUMAN GENETICS*  
Seimiya, T., Otsuka, M., Iwata, T., Tanaka, E., Sekiba, K., Shibata, C., Moriyama, M., Nakagawa, R., Maruyama, R., Koike, K.  
2021; 66 (2): 181-191
  - **Expert endoscopists with high adenoma detection rates frequently detect diminutive adenomas in proximal colon** *ENDOSCOPY INTERNATIONAL OPEN*  
Toyoshima, O., Nishizawa, T., Yoshida, S., Sekiba, K., Kataoka, Y., Hata, K., Watanabe, H., Tsuji, Y., Koike, K.  
2020; 8 (6): E775-E782
  - **Identifying Inhibitors of the HBx-DDB1 Interaction Using a Split Luciferase Assay System** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*  
Sekiba, K., Otsuka, M., Koike, K.  
2019
  - **Detection of circulating colorectal cancer cells by a custom microfluid system before and after endoscopic metallic stent placement** *ONCOLOGY LETTERS*  
Ishibashi, R., Yoshida, S., Odawara, N., Kishikawa, T., Kondo, R., Nakada, A., Hakuta, R., Takahara, N., Tanaka, E., Sekiba, K., Seimiya, T., Ohnaga, T., Otsuka, et al  
2019; 18 (6): 6397-6404
  - **Expression of circular RNA CDR1-AS in colon cancer cells increases cell surface PD-L1 protein levels** *ONCOLOGY REPORTS*  
Tanaka, E., Miyakawa, Y., Kishikawa, T., Seimiya, T., Iwata, T., Funato, K., Odawara, N., Sekiba, K., Yamagami, M., Suzuki, T., Ishibashi, R., Otsuka, M., Koike, et al  
2019; 42 (4): 1459-1466
  - **Pevonedistat, a Neuronal Precursor Cell-Expressed Developmentally Down-Regulated Protein 8-Activating Enzyme Inhibitor, Is a Potent Inhibitor of Hepatitis B Virus** *HEPATOLOGY*  
Sekiba, K., Otsuka, M., Ohno, M., Yamagami, M., Kishikawa, T., Seimiya, T., Suzuki, T., Tanaka, E., Ishibashi, R., Funato, K., Koike, K.  
2019; 69 (5): 1903-1915
  - **Inhibition of HBV Transcription From cccDNA With Nitazoxanide by Targeting the HBx-DDB1 Interaction** *CELLULAR AND MOLECULAR GASTROENTEROLOGY AND HEPATOLOGY*  
Sekiba, K., Otsuka, M., Ohno, M., Yamagami, M., Kishikawa, T., Suzuki, T., Ishibashi, R., Seimiya, T., Tanaka, E., Koike, K.  
2019; 7 (2): 297-312
  - **Inflammation and de-differentiation in pancreatic carcinogenesis** *WORLD JOURNAL OF CLINICAL CASES*  
Seimiya, T., Otsuka, M., Iwata, T., Tanaka, E., Suzuki, T., Sekiba, K., Yamagami, M., Ishibashi, R., Koike, K.  
2018; 6 (15): 882-891
  - **ISGF3 with reduced phosphorylation is associated with constitutive expression of interferon-induced genes in aging cells** *NPJ AGING AND MECHANISMS OF DISEASE*  
Yamagami, M., Otsuka, M., Kishikawa, T., Sekiba, K., Seimiya, T., Tanaka, E., Suzuki, T., Ishibashi, R., Ohno, M., Koike, K.  
2018; 4: 11
  - **Circular RNA and exosomes in pancreatic cancer progression** *TRANSLATIONAL CANCER RESEARCH*  
Seimiya, T., Otsuka, M., Liu, H., Suzuki, T., Sekiba, K., Yamagami, M., Tanaka, E., Ishibashi, R., Koike, K.  
2018; 7: S745-S747
  - **Satellite RNA Increases DNA Damage and Accelerates Tumor Formation in Mouse Models of Pancreatic Cancer** *MOLECULAR CANCER RESEARCH*  
Kishikawa, T., Otsuka, M., Suzuki, T., Seimiya, T., Sekiba, K., Ishibashi, R., Tanaka, E., Ohno, M., Yamagami, M., Koike, K.  
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  - **Hepatitis B virus pathogenesis: Fresh insights into hepatitis B virus RNA** *WORLD JOURNAL OF GASTROENTEROLOGY*  
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2018; 24 (21): 2261-2268
  - **DHX9 regulates production of hepatitis B virus-derived circular RNA and viral protein levels.** *Oncotarget*  
Sekiba, K., Otsuka, M., Ohno, M., Kishikawa, T., Yamagami, M., Suzuki, T., Ishibashi, R., Seimiya, T., Tanaka, E., Koike, K.  
2018; 9 (30): 20953-20964
  - **A tiny but crucial player bridging microbes and colonic carcinogenesis** *TRANSLATIONAL CANCER RESEARCH*

Otsuka, M., Ishibashi, R., Tanaka, E., Seimiya, T., Suzuki, T., Sekiba, K., Yamagami, M., Ohno, M., Kishikawa, T., Koike, K.  
2017; 6: S1467-S1470

- **RASAL1 is a potent regulator of hepatic stellate cell activity and liver fibrosis** *ONCOTARGET*  
Takata, A., Otsuka, M., Kishikawa, T., Yamagami, M., Ishibashi, R., Sekiba, K., Suzuki, T., Ohno, M., Yamashita, Y., Abe, T., Masuzaki, R., Ikenoue, T., Koike, et al  
2017; 8 (39): 64840-64852
  
- **Transcriptional activation of the MICA gene with an engineered CRISPR-Cas9 system** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
Sekiba, K., Yamagami, M., Otsuka, M., Suzuki, T., Kishikawa, T., Ishibashi, R., Ohno, M., Sato, M., Koike, K.  
2017; 486 (2): 521-525
  
- **A new method for insertion of long intestinal tube for small bowel obstruction Nonendoscopic over-the-wire method via short nasogastric tube** *MEDICINE*  
Sekiba, K., Ohmae, T., Odawara, N., Moriyama, M., Kanai, S., Tsuboi, M., Saito, T., Uchino, K., Akamatsu, M., Okamoto, M.  
2016; 95 (47): e5449