

Curriculum Vitae

Nanami (Masuyama) Yamaguchi

Ph.D. Student

Institute for Advanced Biosciences, Keio University

Systems Biology Program, Graduate School of Media and Governance, Keio University

E-mail: nananansutann@gmail.com

Education

March 2020 Master of Media and Governance with honor, *Systems Biology Program, Keio University, Tokyo, Japan*
Supervisors: Drs. Nozomu Yachie and Masaru Tomita
2019 SFC STUDENT AWARD

March 2018 Bachelor of Arts in Environment and Information Studies with honor, *Keio University, Tokyo, Japan*.
Supervisors: Drs. Nozomu Yachie and Masaru Tomita
Graduation Thesis Award

Research Experience

October 2015–March 2018

Visiting student @Yachie laboratory, the University of Tokyo, Tokyo, Japan

Work Experience

February 2021 –

Part-time researcher @Yachie laboratory, University of British Columbia, , British Columbia, Canada

April 2018 – Current

Part-time researcher @Yachie laboratory, the University of Tokyo, Tokyo, Japan

Awards/Fellowships

April 2021– JSPS Fellowship (DC2), *Japan Society for the Promotion of Science (JSPS)*

April 2015–Today TTCK Research Fellowship, *Keio University*

March 2020 SFC STUDENT AWARD, *Keio University*

June 2019 Best Poster Award, *The 13th International Workshop on Advanced Genomics, Tokyo, Japan, June 2019*.

March 2018 SFC, Graduation Thesis Award, SFC, *Keio University*

Publications

Peer-reviewed articles

- 1- Rina C. Sakata†, Soh Ishiguro†, Hideto Mori†, Mamoru Tanaka, Kenji Tatsuno, Hiroki Ueda, Shogo Yamamoto, Motoaki Seki, **Nanami Masuyama**, Keiji Nishida, Hiroshi Nishimasu, Kazuharu Arakawa, Akihiko Kondo, Osamu Nureki, Masaru Tomita, Hiroyuki Aburatani, and Nozomu Yachie. Base editors for simultaneous introduction of C-to-T and A-to-G mutations. *Nature Biotechnology*, 38, pp865–869, 2020.
- 2- Hirofumi Nishizono, Mohamed Darwish, Hideki Uosaki, **Nanami Masuyama**, Motoaki Seki, Hiroyuki Abe, Nozomu Yachie and Ryohei Yasuda. Use of Freeze-thawed Embryos for High-efficiency Production of Genetically Modified Mice. *Journal of Visualized Experiments* 158, e60808, 2020.
- 3- Yumi Murai, Takahiro Masuda, Yasuhide Onuma, Daniel Evans-Yamamoto, Nao Takeuchi, Hideto Mori, **Nanami Masuyama**, Soh Ishiguro, Nozomu Yachie, Kazuharu Arakawa. Complete Genome Sequence of Bacillus sp. Strain KH172YL63, Isolated from Deep-Sea Sediment. *Microbiology Resource Announcements*, Accepted on April 2, 2020.
- 4- Daniel Evans-Yamamoto, Nao Takeuchi, Takahiro Masuda, Yumi Murai, Yasuhide Onuma, Hideto Mori, **Nanami Masuyama**, Soh Ishiguro, Nozomu Yachie, and Kazuharu Arakawa. Complete genome sequence of Psychrobacter sp. strain KH172YL61 isolated from deep-sea sediments in the Nankai Trough, Japan. *Microbiology Resource Announcements*, 8, e00326-19, 2019.
- 5- **Nanami Masuyama**, Hideto Mori and Nozomu Yachie, DNA barcodes evolve for high-resolution cell lineage tracing. *Current Opinion in Chemical Biology* 52, 63-71, 2019.
- 6- Nozomu Yachie, Robotic Biology Consortium (including **Nanami Masuyama**), and Toru Natsume. Robotic crowd biology with Maholo LabDroids. *Nature Biotechnology*, 35, pp310-312, 2017.

Review articles (in Japanese)

- 1- Soh Ishiguro, **Nanami Masuyama**, Nozomu Yachie. DNA barcode tricks to tackle combinatorial explosion of experiments in omic measurements. *Journal of Japanese Biochemical Society*, 89:538-545, 2017.

Talks

- 1- **Nanami Masuyama**, Hideto Mori, Soh Ishiguro, Osamu Masui, Hirohumi Nishizono, Mikiko Negishi, Rina Sakata, Arman Adel, Motoaki Seki, Keiji Nishida, Akihiko Kondo, Masaru Tomita, Hiroyuki Aburatani, Haruhiko Koseki and Nozomu Yachie. *The 20th International Conference on System Biology, Okinawa, Japan, October 2019*.

Poster Presentations

- 1- **Nanami Masuyama**, Hideto Mori, Soh Ishiguro, Osamu Masui, Hirohumi Nishizono, Mikiko Negishi, Rina Sakata, Arman Adel, Motoaki Seki, Keiji Nishida, Akihiko Kondo, Masaru Tomita, Hiroyuki Aburatani, Haruhiko Koseki and Nozomu Yachie. *The 13th International Workshop on Advanced Genomics, Tokyo, Japan, June 2019*.
- 2- **Nanami Masuyama**, Hideto Mori, Soh Ishiguro, Osamu Masui, Hirohumi Nishizono, Mikiko Negishi, Rina Sakata, Arman Adel, Motoaki Seki, Keiji Nishida, Akihiko Kondo, Masaru Tomita, Hiroyuki Aburatani, Haruhiko Koseki and Nozomu Yachie. *The 4th Annual Meeting of The Japanese Society for Genome Editing, Tokyo, Japan, May 2019*.
- 3- **Nanami Masuyama**, Soh Ishiguro, Hideto Mori, Osamu Masui, Motoaki Seki, Kentaro Kakoi, Ayaka Matsuo, Rina Sakata, Keiji Nishid, Akihiko Kondo, Masaru Tomita, Hiroyuki Aburatani, Haruhiko Koseki and Nozomu Yachie. *The Molecular Biology Society of Japan, Kobe, Japan, December 2017*.
- 4- **Nanami Masuyama**, Soh Ishiguro, Hideto Mori, Osamu Masui, Motoaki Seki, Kentaro Kakoi, Ayaka Matsuo, Rina Sakata, Keiji Nishid, Akihiko Kondo, Masaru Tomita, Hiroyuki Aburatani, Haruhiko Koseki and Nozomu Yachie. *From Genetic Networks to a Cellular Wiring Diagram, Tokyo, Japan, April 2017*.

Research Funding

- 1- Doctoral Program Support Program, *Keio University* (April 2020–March 2021)
- 2- Taikichiro Mori Memorial Research Grant, *Taikichiro Mori Memorial Research Fund* (April 2020–March 2021)
- 3- Taikichiro Mori Memorial Research Grant, *Taikichiro Mori Memorial Research Fund* (April 2019–March 2020)
- 4- Taikichiro Mori Memorial Research Grant, *Taikichiro Mori Memorial Research Fund* (April 2018–March 2019)
- 5- Yamagishi Student Project Support Program. (June 2017–February 2018)
- 6- Yamagishi Student Project Support Program. (June 2016–February 2017)

Patents submitted

- 1- **Nanami Yamaguchi**, Hideto Mori, Nozomu Yachie. FRACTAL Assembly (Japan), Application number: 2020-53077.