

SUGIURA KENTA

杉浦

健太

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Now on

JSPS Research Fellow PD (post-doc researcher)

Prof. Ken SATO lab.

Lab. of Molecular Traffic,

Institute for Molecular and Cellular Regulation,

Gunma University

39-15, Showa-machi 3, Maebashi, Gunma, 371-8512, Japan

<http://traffic.dept.med.gunma-u.ac.jp/index.html>

Employment

Dec. 2025 – Feb. 2026	Japan Antarctic Research Expedition 67
Oct. 2023 – present	Post-doc researcher, Gunma University (full-time)
Apr. 2023 – present	JSPS Research Fellow PD
Apr. 2021 – Mar. 2023	Post-doc researcher, Gunma University (part-time)
Oct. 2020 – Mar. 2021	Visited researcher, Keio University
Oct. 2020 – Mar. 2021	JSPS Research Fellow PD
Apr. 2018 – Oct. 2020	JSPS Research Fellow DC1

Degree

Sep. 2020	Ph. D. in Science, Keio University
Sep. 2017	M.Sc., Keio University
Apr. 2016	B.Sc., Keio University

Education

Sep. 2017–	Sep. 2020	Ph. D. course, Midori Matsumoto Lab. School of Fundamental Science, Keio University
Apr. 2016 –	Sep. 2017	Master course, Midori Matsumoto Lab. School of Fundamental Science, Keio University
Apr. 2012 –	Mar. 2016	Bachelor course, Midori Matsumoto Lab.

Apr. 2009 – Mar. 2012 Keio High School

Publications

[Milnesium \(Tardigrada: Apochela\) having elongated buccal tube from Mt. Yukikuradake \(Toyama and Niigata prefecture, Japan\).](#)

K Sugiura*, AC Suzuki*.

* The authors are co-corresponding author.

Zoologischer Anzeiger, 2025, 317: 165–175. [Research article]

[Sexual dimorphism in the tardigrade *Paramacrobiotus metropotalinus* transcriptome.](#)

K Sugiura*, Y Yoshida*, K Hayashi, K Arakawa, T Kunieda, M Matsumoto.

* The authors equally contributed.

Zoological Letters, 2024, 10:11. [Research article]

[MARC-3, a membrane-associated ubiquitin ligase, is required for fast polyspermy block in *Caenorhabditis elegans*.](#)

I Kawasaki*, **K Sugiura***, T Sasaki, N Matsuda, M Sato*, K Sato.

* The authors equally contributed.

Nature Communications, 2024, 15: 792. [Research article]

[A New Species of Bisexual *Milnesium* \(Eutardigrada: Apochela\) Having Aberrant Claws from Innhovde, Dronning Maud Land, East Antarctica.](#)

AC Suzuki, **K Sugiura**, M Tsujimoto, et al.

Zoological Science, 2023, 40 (3): 246–261. [Research article]

[Description of a model tardigrade *Paramacrobiotus metropolitanus* sp. nov. \(Eutardigrada\) from Japan with a summary of its life history, reproduction and genomics.](#)

K Sugiura, M Matsumoto, T Kunieda.

Zootaxa, 2022, 5134 (1): 92-112. [Research article]

[Morphological Differences In Tardigrade Spermatozoa Induce Variation In Gamete Motility.](#)

K Sugiura, K Shiba, K Inaba, M Matsumoto.

BMC Zoology, 2022, 7: 8. [Research article]

[Sexual reproductive behaviours of tardigrades: a review.](#)

K Sugiura, M Matsumoto.

Invertebrate Reproduction and Development,
2021, 64 (4): 279-287. [Review article]

[Reproduction of *Mesobiotus*: Comparison of Morphology and Behavior in the Family Macrobiotidae \(Tardigrada: Eutardigrada\).](#)

K Sugiura, M Matsumoto.

Zoological Science, 2021, 38 (5): 444-450. [Research article]

有性生殖クマムシの進化的背景解明に向けた生殖行動と配偶子形態観察
Observation of reproductive behaviors and gametes morphologies on dioecious
tardigrades for elucidation of evolutionary history.

杉浦健太.

2021. [博士論文 (Doctoral thesis)]

Spermatozoa morphology changes during reproduction and first observation of
acrosomal contact in two dioecious species of Macrobiotidae (Tardigrada:
Eutardigrada).

K Sugiura, M Matsumoto.

Zygote, 2021, 29 (1): 42-48. [Research article]

Milnesium (Tardigrada: Apochela) in Japan: the First Confirmed Record of *Milnesium*
tardigradum s.s. and Description of *Milnesium pacificum* sp. nov.

K Sugiura, H Minato, M Matsumoto, AC Suzuki.

Zoological Science, 2020, 37 (5): 476-495. [Research article]

Distribution of *Macrobiotus shonaicus* Stec, Arakawa & Michalczyk, 2018
(Tardigrada: Eutardigrada: Parachela) in Japan.

K Sugiura, K Arakawa, M Matsumoto.

Zootaxa, 2020, 4767 (1): 56-70. [Research article]

Erratum: *Zootaxa*, 2020, 4778 (3): 600.

Comparison of the transcriptomes of two tardigrades with different hatching
coordination.

Y Yoshida*, **K Sugiura***, M Tomita, M Matsumoto, K Arakawa.

*The authors equally contributed.

BMC Developmental Biology. 2019, 19 (1): 1-9. [Research article]

Comparison of Sexual Reproductive Behaviors in Two Species of Macrobiotidae
(Tardigrada: Eutardigrada).

K Sugiura, H Minato, AC Suzuki, K Arakawa, T Kunieda, M Matsumoto.

Zoological Science. 2019, 36 (2): 120-127. [Research article]

御蔵島の陸生緩歩動物(第一報).

AC Suzuki, L Heard, **K Sugiura**.

Mikurensis, 2018, vol.7, pp3-8. [Research article]

Conferences (International)

- 2025 The 16th International Symposium on Tardigrada
Tsuruoka, Yamagata, Japan
“Genetic dimorphism in the tardigrade *Paramacrobiotus metropolitanus*”
- 2023 The Tardigrade Story -250th Anniversary of the Discovery
Online (invited)
“Reproductive strategy of tardigrades”
- 2023 24th International *C. elegans* Conference
Glasgow, Scotland
“Dynamics of oocyte-surface proteins during and after fertilization”
- 2022 The 15th International Symposium on Tardigrada
Klakow, Poland (joined online)
“Reproductive strategy of tardigrades: gamete motility and morphology”
- 2018 The 14th International Symposium on Tardigrada
Copenhagen, Denmark
“Comparison of sexual reproductive behaviors
in two species of Macrobiotidae”
- 2016 The 22nd International Congress of Zoology
Okinawa, Japan
“Sex determination in Tardigrada for evolutionary insight”

Awards

- 2025 Young Scientist Award
16th International Symposium on Tardigrada
- 2024 Zoological Science Award & Fujii Award
The Zoological Society of Japan (日本動物学会)
50,000 JPY
- 2024 若手優秀賞 (群馬大学)
Award for young researcher (Gunma University)
200,000 JPY
- 2023 ホープ賞 (群馬大学)
HOPE award for young researcher (Gunma University)
100,000 JPY
- 2018 Accommodation and Travel expenses
(The Carlsberg Foundation)
- 2017 Poster award (Keio Lifescience Symposium)

Last update: Jun. 30. 2025.

Funding

2026 – 2029	JSPS KAKENHI Grant-in-Aid Scientific Research (B) “幼若ホルモンの新規機能獲得の分子基盤の解明” “Molecular basis for the acquisition of novel functions of Juvenile hormones.”
2023 – 2026	JSPS Research Fellow PD “線虫卵の受精ゾーン形成メカニズムと卵-精子融合機構の解明” “Elucidation the mechanism of egg-sperm fusion on <i>C. elegans</i> , via the Fertilization Zone of oocytes” 3,000,000 JPY / 3 years, for research fee 362,000 JPY / month x 3 years, for salary
2021	ABiS (Advanced Biolmaging Support) “緩歩動物クマムシにおける求愛・交尾行動の初観測と性差をもたらす分子基盤の解明!” “First observation of courtship and mating behaviors, and elucidation of molecular mechanism for inducing sex defferentiation”
2020	Research project, Keio University “クマムシの受精 -非接触型体内受精-” “Fertilization of tardigrades: internal fertilization without contact”
2018 – 2021	JSPS Research Fellow DC1 “緩歩動物クマムシにおける求愛・交尾行動の初観測と性差をもたらす分子基盤の解明” “First observation of courtship and mating behaviors, and elucidation of molecular mechanism for inducing sex defferentiation” 2,200,000 JPY / 3 years, for research fee 200,000 JPY / month x 3 years, for salary

Committee

2025	Local Committee of 16th International Symposium on Tardigrada
2023	クマムシ学研究会 大会長 Chair of Japan conference of Tardigradology
2021 –	生殖若手の会 幹事 Committee of Conference of young researchers on reproductive biology
2019 –	進化学若手の会 幹事 Committee of Conference of young researchers on evolutionary biology

Media

<https://www.fao.org/about/meetings/soil-biodiversity-symposium/contest/en/>

<https://nazology.net/archives/104316>