

大阪公立大学 大学院理学研究科 生物学専攻

動物生理学研究室 研究業績 (2020–2024)

2024 年

Watari, Y., Miyazaki, Y., Goto, S.G., Kuroki, I., Tanaka, K. (2024). What accounts for the difference in the emergence times of *Drosophila melanogaster* between the first and second eclosion days? *Entomological Science* 27, e12573. <https://doi.org/10.1111/ens.12573>

Shimizu, Y., Goto, S.G. (2024). No evidence for the involvement of juvenile hormone III and 20-hydroxyecdysone in maternal decisions for embryonic diapause and diapause entry in the band-legged ground cricket *Dianemobius nigrofasciatus* (Orthoptera: Trigonidiidae). *Applied Entomology and Zoology* 59, 51–59. <https://doi.org/10.1007/s13355-023-00853-6>

2023 年

Yoshida, M., Goto, S.G. (2023). Thermal responses of the embryos and early instar larvae of the Antarctic midge *Belgica antarctica* (Insecta: Diptera). *Polar Biology* 46, 539–544. <https://doi.org/10.1007/s00300-023-03142-8>

Kodama, A., Matsumoto, K., Shinada, T., Goto, S.G. (2023). Juvenile hormone identification in the cabbage bug *Eurydema rugosa*. *Bulletin of Entomological Research* 113, 293–298. <https://doi.org/10.1017/S0007485321000158>

Fuchikawa, T. (2023). Circadian Behavioral Rhythms in Social Insects. In H. Numata & K. Tomioka (Eds.), *Insect Chronobiology* (pp. 163–176). Singapore: Springer. https://doi.org/10.1007/978-981-99-0726-7_8

Goto, S.G. (2023). Molecular Mechanisms of Photoperiodism. In H. Numata & K. Tomioka (Eds.), *Insect Chronobiology* (pp. 271–291). Singapore: Springer. https://doi.org/10.1007/978-981-99-0726-7_13

2022 年

Mano, G., Goto, S.G. (2022). Photoperiod controls insulin and juvenile hormone signaling pathways via the circadian clock in the bean bug *Riptortus pedestris*. *Applied Entomology and Zoology* 27, 363–377. <https://doi.org/10.1007/s13355-022-00795-5>

- Takekata, H., Tachibana, S.I., Motooka, D., Nakamura, S., Goto, S.G. (2022). Possible biological processes controlled by the circatidal clock in the mangrove cricket inferred from transcriptome analysis. *Biological Rhythm Research* 53, 908–920. <https://doi.org/10.1080/09291016.2020.1838747>
- Goto, S.G. (2022). Photoperiodic time measurement, photoreception, and circadian clocks in insect photoperiodism. *Applied Entomology and Zoology* 57, 193–212. <https://doi.org/10.1007/s13355-022-00785-7>
- Mukai, A., Mano, G., Des Marteaux, L., Shinada, T., Goto, S.G. (2022). Juvenile hormone as a causal factor for maternal regulation of diapause in a wasp. *Insect Biochemistry and Molecular Biology* 44, 103758. <https://doi.org/10.1016/j.ibmb.2022.103758>
- 向井歩, 多賀谷純, 後藤慎介, 沼田英治 (2022). 都市の夜は明るいか—ナミニクバエの場合. *比較生理生化学* 39, 53–58. <https://doi.org/10.3330/hikakuseiriseika.39.53>
- Goto, S.G., Nagata, M. (2022). The circadian clock gene (*Clock*) regulates photoperiodic time measurement and its downstream process determining maternal induction of embryonic diapause in a cricket. *European Journal of Entomology* 119, 12–22. <https://doi.org/10.14411/eje.2022.002>
- Des Marteaux, L., Xi, J., Mano, G., Goto, S.G. (2022). Circadian clock outputs regulating insect photoperiodism: a potential role for glutamate transporter. *Biochemical and Biophysical Research Communications* 589, 100–106. <https://doi.org/10.1016/j.bbrc.2021.12.014>

2021 年

- Mukai, A., Yamaguchi, K., Goto, S.G. (2021). Urban warming and artificial light alter dormancy in the flesh fly. *Royal Society Open Science* 8, 210866. <https://doi.org/10.1098/rsos.210866>
- Kitai, H., Kakuda, U., Goto, S.G., Shiga, S. (2021). Photoperiod controls egg laying and caudodorsal cell hormone expression but not gonadal development in the pond snail *Lymnaea stagnalis*. *Journal of Comparative Physiology A* 207, 523–532. <https://doi.org/10.1007/s00359-021-01494-2>
- 篠原従道, 富岡憲治 (2021). タンボコオロギにおける光周期と温度による幼虫発育の制御機構. *比較生理生化学* 38, 38–44. <https://doi.org/10.3330/hikakuseiriseika.38.38>
- Yoshida, M., Lee, R.E. Jr., Denlinger, D.L., Goto, S.G. (2021). Expression of aquaporins in response to distinct dehydration stresses that confer stress tolerances in the Antarctic midge *Belgica antarctica*. *Comparative Biochemistry and Physiology A* 256, 110928. <https://doi.org/10.1016/j.cbpa.2021.110928>
- Matsumoto, K., Kotaki, T., Numata, H., Shinada, T., Goto, S.G. (2021). Juvenile hormone III skipped bisepoxide is widespread in true bugs (Hemiptera: Heteroptera). *Royal Society Open Science* 8, 202242. <https://doi.org/10.1098/rsos.202242>

Takano, Y., Goto, S.G., Gotoh, T. (2021). Diapause induction in *Eotetranychus smithi* (Acari: Tetranychidae): Effect of average temperature, but not of thermoperiod. *Physiological Entomology* 46, 8–16.
<https://doi.org/10.1111/phen.12335>

Fujioka, H., Okada, Y., Abe, M.S. (2021). Bipartite network analysis of ant-task associations reveals task groups and absence of colonial daily activity. *Royal Society Open Science* 8, 201637.
<https://doi.org/10.1098/rsos.201637>

2020 年

Ichikawa, A., Ikeda, M., Goto, S.G. (2020). Cold storage of diapausing larvae and post-storage performance of adults in the blowfly *Lucilia sericata* (Diptera: Calliphoridae). *Applied Entomology and Zoology* 55, 321–327.
<https://doi.org/10.1007/s13355-020-00685-8>

Matsumoto, K., Yasuno, Y., Yasuda, K., Hayashi, T., Goto, S.G., Shinada, T. (2020). Structure determination of juvenile hormone from Chagas disease vectors, *Rhodnius prolixus* and *Triatoma infestans*. *Chemistry Letters* 49, 538–541. <https://doi.org/10.1246/cl.200126>

Ando, Y., Matsumoto, K., Misaki, K., Mano, G., Shiga, S., Numata, H., Kotaki, T., Shinada, T., Goto, S.G. (2020). Juvenile hormone III skipped bisepoxide, not its stereoisomers, as a juvenile hormone of the bean bug *Riptortus pedestris*. *General and Comparative Endocrinology* 289, 113394.
<https://doi.org/10.1016/j.ygcen.2020.113394>

Tachibana, S.-I., Matsuzaki, S., Tanaka, M., Shiota, M., Motooka, D., Nakamura, S., Goto, S.G. (2020). The autophagy-related protein GABARAP is induced during overwintering in the bean bug *Riptortus pedestris* (Hemiptera: Alydidae). *Journal of Economic Entomology* 113, 427–434. <https://doi.org/10.1093/jee/toz287>

Inagaki, T., Yanagihara, S., Fuchikawa, T., Matsuura, K. (2020). Gut microbial pulse provides nutrition for parental provisioning in incipient termite colonies. *Behavioral Ecology and Sociobiology* 74, 64.
<https://doi.org/10.1007/s00265-020-02843-y>

Mitaka, Y., Tasaki, E., Nozaki, T., Fuchikawa, T., Kobayashi, K., Matsuura, K. (2020). Transcriptomic analysis of epigenetic modification genes in the termite *Reticulitermes speratus*. *Insect Science* 27, 202–211.
<https://doi.org/10.1111/1744-7917.12640>