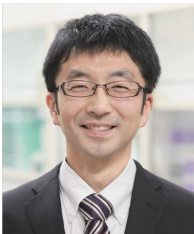


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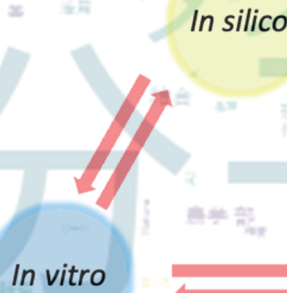
准教授 児島孝明

STAFF 准教授 児島 孝明
遺伝学・分子生物学
分子育種学特論(大学院)

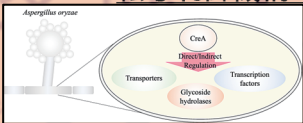
研究テーマ 微生物・植物を対象としたビッグデータ解析を通して、
生物資源の効率的な利活用を目指す研究を行っています。

研究内容

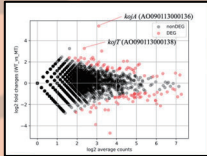
分子生物情報学研究室
Laboratory of Molecular Bioinformatics



バイオインフォマティクスを駆使した
転写制御機構の網羅的解析

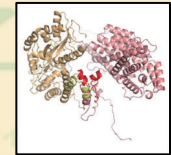
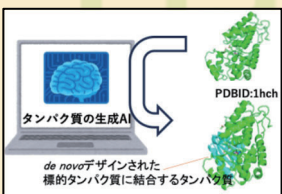


Ogasawara et al. BBB 2026



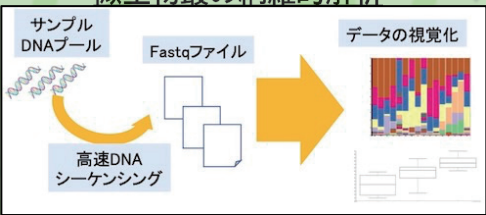
Mizutani et al. JoF 2024

タンパク質の立体構造情報を
活用した生命機構の論理的解析

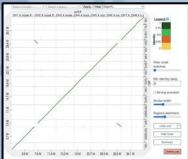


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微生物叢の網羅的解析



微生物ゲノム情報の大規模比較解析



最近の主な論文

・ Ogasawara, N., Oka, H., Tanaka, M., Gomi, K., Shimizu, M., Kato, M., Nakano, H., and Kojima, T. (2026) Genome-wide characterization of CreA-mediated transcriptional regulation in *Aspergillus oryzae* under carbon catabolite derepression. *Biosci. Biotechnol. Biochem.* 90, 99-108.

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・ Morita, S., Shibata, F.T., Nishiyama, T., Kobayashi, Y., Yamaguchi, K., Toga, K., Ohde, T., Gotoh, H., Kojima, T., Weber, N.J., Salvemini, M., Bino, T., Mase, M., Nakata, M., Mori, T., Mori, S., Cornette, R., Sakura, K., Lavine, C.L., Emlen, J.D., Niimi, T. and Shigenobu, S. (2023) The draft genome sequence of the Japanese rhinoceros beetle *Trypoxylus dichotomus septentrionalis* towards an understanding of horn formation. *Sci. Rep.* 13, 8735.

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最近の主な著書・書評

・ 児島孝明(2025) 第8章 シークエンサーなどを用いた網羅的配列解析とその応用(編集協力) など 羊土社 実験医学別冊 論文図表を読む作法PREMIUM 牛島俊和, 中山敬一 編

・ 児島孝明(2024) プログラミングはもう怖くない? ~ChatGPTとバイオインフォマティクスの接点~ 生物工学会誌 バイオミディア102, 473.

・ 児島孝明(2022) 第7章NGSなどを用いた網羅的解析(編集協力) など 羊土社 実験医学別冊 論文図表を読む作法 牛島俊和, 中山敬一 編