

High school poster presentation award 2020 at the Annual Meeting of Biophysical Society of Japan

<First Prize>

Computational Study of Temperature-Dependent Protein Glass Transition under Varying Solvent Compositions

Michelle Yaochai^{1,2}, Emmanuella Li², Joanna Ng², Peter J. Bond², Alexander Krah² (¹NUS High Sch., ²Bioinformatics Inst., A*STAR)

<Second Prize>

Sleep deprivation alters food odor preference in *Drosophila*

Fuminori Tanizawa^{1,2}, Hiroyuki Takemoto³ (¹Kaisei Senior High School, ²Future Scientists' School, Shizuoka University, ³Research Institute of Green Science and Technology, Shizuoka University)

<Third Prize>

The breeding ecology of the invasive alien *Planaria*, *Girardia dorotocephala*, in the middle reaches of the Ish river in Osaka Pref

Sakura Takahashi (Osaka Pref. Tondabayashi H.S.)

<4th Prize>

The reason why the arrow is superior aying tool - Analysis of forces acting on aying arrows by using our own-made wind tunnel device -

Haruto Tagawa, Akito Wada, Hinata Furuya, Ayumu Yamamori (Osaka Pref. Tondabayashi H.S.)

<5th Prize>

A comparative study of external morphology and phylogeny in the two species of earthworms

Hayato Endou (Oyama Highschool)

<6th Prize>

Effect of air resistance on the generation and lightning of thunderbolt

Shingo Iwasaki (HatusibaTondabayasi H.S.)

<7th Prize>

Reasons why Japanese Fireay, *Luciola cruciate*, can inhabit in a three-sided concrete channel

Takumi Matsuo, Tomoki Ikegawa (Osaka Pref. Tondabayashi H.S.)

<8th Prize>

The habitat conditions determined two types of sprout formation of the asexual generation of Freshwater jellydsh, *Craspedacusta sowerbii*

Yuki Tanino, Yuta Hirayama, Sota Moriyama (Osaka Pref.Tondabayashi H.S.)

<9th Prize>

The Habitat of the *Orobdella whitmani* Oka in the Kongo Mountains (Osaka pref.)

Yuya Uenishi (Osaka pref. Tondabayshi H.S.)

<10th Prize>

Reasons why the beach plant, *Calystegia Soldanella*, can grow on the beach

Kei Yanazawa (Osaka Pref. Todabayashi H.S.)

<11th Prize>

The Effect of Wing Length on Gliding Performance of Model Airplanes

Fumiya Yamanaka (Osaka Pref. Tondabayashi H.S.)

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The study of the ecology and origin of *Salvelinus leucomaenis* that has been confirmed to breed for the first time in Osaka prefecture

Kanato Nakamura, Kaito Oana (Osaka pref. Tondabayashi H.S.)

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Triggers that trigger breeding behavior in loaches, *Misgurnus anguillicaudatus*

Yohei Okugawa (Osaka Pref. Tondabayashi H.S.)