

29th Annual Meeting of the Japanese Nematological Society

Date: 4-5 November 2022

Venue: Online hosted by Chubu University (1200 Matsumoto-cho, Kasugai, Aichi, Japan)

Program

4 Nov.

Oral session

- O01 Hayano, A.^{1,2} and Iwahori, H.¹ (¹Ryukoku Univ., ²Riken Green Co.) **Growth temperature characteristics of *Heterodera schachtii* Nagano population.**
- O02 Fujikawa, A.¹ and Toyoda K.¹ (¹Tokyo Univ. of Agriculture and Technology) **Study on resistance mechanisms in fosthiazate resistant populations of root-knot nematodes.**
- O03 Sakata, I.^{1,2}, Kushida, A.¹ and Toyota, K.² (¹NARO/HARC, ²TUAT/BASE) **Species specific detection of viable *Globodera pallida* using real-time reverse transcription PCR.**
- O04 Kuroda, K.¹, Kurashita, H.², Takagi, M.³, Goto, M.³, Noguchi, T.Q.P.⁴, Tomita, S.¹ and Narihiro, T.¹ (¹AIST, ²Nagaoka Univ. Tech., ³Ibaraki agric. cent., ⁴NIT, Miyakonojo Coll.) **Identification of symbiotic microorganisms of lotus root nematodes *Hirschmanniella diversa*.**
- O05 Uesugi, K.¹ and Kato, A.² (¹National Agriculture and Food Research Organization, ²Tokyo Metropolitan Agriculture and Forestry Research Center) **Identification of a stunt nematode detected from Komatsuna.**
- O06 Naruo, K.¹ and Iwahori, H.¹ (¹Ryukoku Univ.) **Host range of an unidentified Japanese root-knot nematode found in Shiga Prefecture.**
- O07 Tateishi, Y.¹ and Uesugi, K.¹ (¹NARO) **Removal effect of ectoparasitic nematodes from tree roots by water stream and chemical treatment.**
- O08 Sato, K.¹, Kadota, Y.¹, Gan, P.¹, Uehara, T.², Maki, N.¹, Mukhtar, M.S.³ and Shirasu, K.^{1,4} (¹RIKEN, ²NARO, ³UAB, ⁴NARO) **Functional analysis of the root-knot nematode effector that suppresses plant immunity.**
- O09 Eddy Sukmawinata¹, Melis N. Konno¹, Simo Sun¹ and Taisei Kikuchi¹ (¹Tokyo Univ.) **Chemotaxis among *Caenorhabditis* species in *Elegans* group.**

- O10 Ekino, T.¹ and Shinya, R.¹ (¹Meiji Univ.) **Predatory nematode *Seinura italiensis* feeds morphologically similar closely-related predator species unilaterally.**
- O11 Asakawa, M.¹ (¹Rakuno Gakuen Univ.) **Recent case reports on filarid nematodes performed by Wild Animal Medical Center.**

5 Nov.

Interactive session (brief presentations indicated with underline)

- I01 Ito, K.¹ and Hasegawa, K.¹ (¹Chubu Univ.) **Mutations in ALH-1/ALDH2 causes oxidative stress accumulation and aging in *C. elegans*.**
- I02 Okada, H.¹, Yosano, S.¹, Tateishi, Y.¹ and Araki, M.² (¹NIPP, ²Tsukuba city) **Perennial cultivation of green pepper slows down root-knot nematode infestation, and initiates ecosystem development.**
- I03 Nagato, K.¹ and Hasegawa, K.¹ (¹Chubu Univ.) **Phenotypic analysis of the *Caenorhabditis elegans* mutant with abnormal accumulation of oxidative stress in the hypodermis.**
- I04 Mizukoshi, M.¹, Nagae, S.¹, Li, L.² and Hasegawa, K.¹ (¹Chubu Univ., ²Hebei Normal Univ.) **Two parasitic nematodes, *Gyrinicola* spp. and *Cosmocerca* spp. replaced by the metamorphosis of the host frogs.**
- I05 Sugiyama, T.¹, Nagae, S.¹ and Hasegawa, K.¹ (¹Chubu Univ.) **Characterization of *Steinernema monticolum* KHA701, an entomopathogenic nematode isolated from forest soil, Ena city in Japan.**
- I06 Ono, M.¹, Konosu, A.² and Kikuchi, T.¹ (¹Tokyo Univ., ²Miyazaki Univ.) **The photoreactions of parasitic nematodes.**
- I07 Doi, K.¹ and Shinya, R.¹ (¹Meiji Univ.) **Observation of the mating behavior of *Bursaphelenchus xylophilus* reveals female's cooperation in their mating.**
- I08 Manabe, K.¹, Miyama, A.¹, Sawa, S.² and Shinya, R.¹ (¹Meiji Univ., ²Kumamoto Univ.) **The possibility of sugar-dependent sex determination in *Meloidogyne incognita*.**
- I09 Tamaki, Y.¹ and Shinya, R.¹ (¹Meiji Univ.) **The role of copulatory plug in *Pelodera strongyloides*.**
- I10 Togawa, Y.¹ and Shinya, R.¹ (¹Meiji Univ.) **How does *Caenorhabditis elegans* male percept volatile sex pheromones?**

- I11 Etoh, S.¹ and Shinya, R.¹ (¹Meiji Univ.) **Role of serotonin in *Bursaphelenchus okinawaensis*.**
- I12 Kawamura, Y.¹, Ekino, T.¹, Sato, M.¹ and Shinya, R.¹ (¹Meiji Univ.) **Structure and function of the cephalic neurons in *Meloidogyne incognita*.**
- I13 Kimura, T.¹ and Shinya, R.¹ (¹Meiji Univ.) **Elucidation of stochastic sex determination trigger in *Bursaphelenchus okinawaensis*.**
- I14 Nagae, S.¹, Morffe, J.^{1,2}, Tanabe, T.³ and Hasegawa, K.¹ (¹Chubu Univ., ²Inst. Ecol. Sistem. Cuba, ³Kumamoto Univ.) **Correlation between parasitic nematodes and host millipedes**
- I15 Iwase, H.¹ and Iwahori, H.¹ (¹Ryukoku Univ.) **Effects of micronutrients on formation of root knot, eggmass, and propagation of *Meloidogyne incognita*.**
- I16 Saeki, Y.¹, Hosoi, A.¹, Uchiyama, H.², Sawa, S.³, Sasaki, Y.¹, Yajima, S.¹ and Ito, S.¹ (¹Dept. of Bioscience, Tokyo Univ. of Agric., ²NODAI GRC, ³Graduate School of Science and Technology, Kumamoto Univ.) **Investigation of host recognition mechanism of plant parasitic nematodes.**
- I17 Matsushita, M.¹, Kubo, S.¹, Miyatake, K.² and Iwahori, H.¹ (¹Ryukoku Univ., ²NARO) **Investigation of nematode resistance of eggplant F3 population from crosses between *Meloidogyne incognita* resistant eggplant line RV1 and cultivated variety S.**
- I18 Sudo, A.¹, Ueda, Y.¹, Hayashi, D.¹, Matsumoto, R.¹, Yoshimura, D.¹, Sato, S.² and Asamizu, E.¹ (¹Ryukoku Univ., ²Tohoku Univ.) **Soil chemical conditions related to root-knot nematodes in green manure-applied field.**
- I19 Koyama, T.¹ and Asamizu, E.¹ (¹Ryukoku Univ.) ***Meloidogyne incognita* effector gene cloning.**

Symposium 'Career path for young nematologists'

- S01 Harada, Y. (ISK BIOSCIENCES K.K.) **Taking advantage of knowledge in Nematology to find work.**
- S02 Moriyama, M. (Moriyama Environ. Wellness Lab.) **Utilization of unmanned vehicles in environmental research.**