27th Annual Meeting of the Japanese Nematological Society

Date : 11–13 September 2019
Venue : Tsukuba Center for Institutes (2-20-5, Takezono, Tsukuba, Japan)

Program

11th Sept.

Oral session

O01 Tomita, R.[1], Ekino, T.[1], Kanzaki, N.[2] and Shinya, R.[1,3] ([1]Meiji Univ., [2]Kansai Res. Ctr., FFPRI., [3]JST PRESTO) **Mechanisms of desiccation tolerance in the family of Aphelenchoididae.**

O02 Horie, H.[1], Ekino, T.[1] ,Kanzaki, N.[2] and Shinya, R.[1,3] ([1]Meiji Univ., [2]Kansai Res. Ctr., FFPRI., [3]JST PRESTO) **The adaptive strategy to starvation in *Seinura caverna* newly hatched juveniles.**

O03 Ekino, T.[1], Kanzaki, N.[2] and Shinya, R.[1,3] ([1]Meiji Univ., [2]Kansai Res. Ctr., FFPRI, [3]JST PRESTO) **The mechanism to avoid cannibalism in *Seinura caverna*.**

O04 Shinya, R.[1], Shih, P-Y.[2], Lee, JS.[2], Kanzaki, N.[3], Sapir, A.[4] and Sternberg, PW.[2] ([1]Meiji Univ. & JST PRESTO, [2]Caltech, [3]Kansai Res. Ctr. FFPRI., [4]Univ. Haifa) **Extremophile nematodes from mono lake exhibit extreme arsenic resistance.**

O05 Takeda, A.[1], Fukuda, H.[1] and Toyota, K.[2] ([1]CAFRC, [2]Tokyo Univ. of Agriculture and Technology) **The management of the soybean cyst nematode, *Heterodera glycines*, by plowing young plant of *Vigna radiate*.**

O06 Hosoi, A.[1], Uchiyama, H.[2], Sasaki, Y.[1], Yajima, S.[1,2] and Ito, S.[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agr., [2]Genome Research Center Tokyo Univ. of Agr.) **Investigation of host recognition mechanism of soybean cyst nematode.**

O07 Sakata, I.[1] and Kushida, A.[1] ([1]HARC/NARO) **Evaluation of housekeeping gene expressions in *Globodera pallida* eggs: aiming at establishment of viable nematodes detection method.**

O08 Sakai, H.[1], Kushida, A.[1] and Narabu, T.[1] ([1]HARC/NARO) **Multiplex PCR diagnostics of the potato cyst nematodes and carry-over prevention.**

O09 Gaspard, Jerome T.[1] ([1]Nematenken Co. Ltd.) **Baermann funnel and sugar centrifugal flotation extraction with cream cleanser.**

12th Sept.

Poster session

P 01 Ishijima, H.[1] and Asakawa, M.[1] ([1]Sch. Vet. Med., Rakuno Gakuen Univ.) **Zoogeography of parasitic nematodes from the genus *Macaca* in Japan with special reference to the recent research result from free-ranged and imported individuals of host macaques.**

P 02 Koike, Y.[1], Sheng, Y.[1], Ozawa, S.[2], Aikawa, T.[2], Hasegawa, K.[1] ([1]Chubu Univ., [2]FFPRI Tohoku) **Wide geographical distribution of the nematode with ovoviviparous reproduction and its association prevalence to the Onthophagini dung beetles.**

P 03 Ono, M.[1,2], Hayakawa, Y.[1,2] and Yoshiga, T.[1,2] ([1]Saga Univ., [2]Kagoshima Univ.) **Non-parasitic nematodes delay the activation of insect hemocytes.**

P 04 Ozawa, S.[1], Nakano, K.[2], Koike, Y.[3], Subramani, R.[4], Aikawa, T.[1], Hasegawa, K.[3] ([1]FFPRI Tohoku, [2]Minato City, Tokyo.,[3]Chubu Univ., [4]USP, Fiji) **Host range expansion of the parasitic nematode *Leidynema appendiculatum* exhibiting broad infectivity in invasive cockroach host.**

P 05 Adachi, Y.[1], Kuwabara, T.[1], Shirasawa, K.[2], Hirakawa, H.[2], Iwahori, H.[1] and Asamizu, E.[1] ([1]Ryukoku Univ., [2]Kazusa DNA Res. Inst.) **Utilization of root-knot nematode genome sequence information for identification of infection-related genes.**

P 06 Kobayashi, N.[1], Tanaka, S.[1], Iwahori, H.[1] and Asamizu, E.[1] ([1]Ryukoku Univ.) **Detection of nematode DNA from soil samples.**

P 07 Sugita, Y.[1], Yoshiga, T.[1] ([1]Saga Univ.) **Comparison of hypoxia/anoxia tolerance among nematode species with different ecological traits.**

P 08 Suzuki, K.[1], Kitagami, Y.[1] and Matsuda, Y.[1] (Mie Univ.) **Community structures of nematodes in different parts and substrates of above ground of cedar trees.**

P 09 Hamaguchi, T.[1], Hou, Z.[1], and Hasegawa, K.[1] ([1]Chubu Univ.) **Phenotypic characterization of the abnormal GST expression mutants of the nematode *Caenorhabditis elegans*, while relating to the nematicidal action of the marigold exudate α-terthienyl.**

P 10 Watanabe, S.[1], Tsunashima, A.[1], Itoyama, K.[1] and Shinya, R.[1,2] ([1]Meiji Univ., [2]JST PREST) **Survey of mermithid nematodes infecting the fruit-piercing stink bugs.**

P 11 Aoki, K.[1], Hosoi, A.[1], Yajima, S.[1], Sasaki, Y.[1] and Ito, S.[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agr.) **Response to GEA in hatching process of soybean cyst nematode.**

P 12 Kurihara, K.[1], Owada, K.[1] and Aoi, T.[1] ([1]Nat. Inst. Tech., Gunma College) **Analysis of the genetic variability of nematodes in Chinese yam farm with the soil improvement material utilizing biomass resources.**

Oral session

O10 Itou, K.[1], Matsushita, W.[2] and Narabu, T.[1] ([1]HARC/NARO, [2]Kagome Co., Ltd.) **New potato cyst nematodes resistant variety of tomato for processed products.**

O11 Kushida, A.[1], Sakata, I.[1] and Tanino, K.[2] ([1]HARC/NARO, [2]Hokkaido Univ.) **Seasonal variation of hatching response in potato cyst nematode Japanese populations to host root diffusate or Solanoeclepin A.**

O12 Narabu, T.[1], Yoshida, H.[2], Kushida, A.[1] and Tanino, K.[3] ([1]HARC/NARO, [2]Tokyo Univ. Agric., [3]Hokkaido Univ.) **Response of potato cyst nematodes against the different source of hatching stimulator.**

Symposium

S 01 Okada, H. (CARC/NARO) **What do they have in common? cyst nematodes, root-knot nematodes and Brassica clubroot pathogen.**

S 02 Uesugi, K. (KARC/NARO) **Biology and control of root-knot nematodes.**

S 03 Asamizu, E. (Ryukoku Univ.) **Insights into the root-knot nematode genome.**

S 04 Nakanishi, M. (The Kagawa Prefecture Agricultural Experiment Station) **HeSoDiM approach to the control of clubroot in broccoli.**

S 05 Ito, S. (Yamaguchi Univ.) **Phylogenetic and pathogenic analyses of emerging *Plasmodiophora brassicae* isolated from Japan.**

13th Sept.

Oral session

O13 Sawanomukai, D.[1], Kotone, M.[1], Hasegawa, K.[1] ([1]Chubu Univ.) **Study of the *Oscheius* sp. KHA 501 and the accompanying bacterium *Serratia marcescens*, concerning the entomopathogenicity.**

O14 Kitagami, Y.[1], Tanikawa, T.[2] and Matsuda, Y.[3] ([1]Mie Univ., [2]Nagoya Univ.) **Effects of microhabitat environments on nematode community structures in Japanese cedar plantation forests.**

O15 Kirino, H.[1], Yoshimoto, K.[1], Konagaya, K.[2] and Shinya, R.[1,3] ([1]Meiji Univ., [2]FFPRI, [3]JST PRESTO) **Functional analysis of candidate pathogenic proteins secreted by *Bursaphelenchus xylophilus* using seed embryo of Japanese black pine.**

O16 Kanzaki, N.[1], Ekino, T.[2] and Giblin-Davis, R. M.[3] ([1]Kansai Res. Ctr., FFPRI, [2]Meiji Univ.,[3]Univ. Florida) **Feeding dimorphism in *Bursaphelenchus sinensis*.**

O17 Nagae, S.[1], Morffe, J.[2], Tanabe, T.[3], Hasegawa, K.[1] ([1]Chubu Univ, [2]Inst. Ecol. Sistem. Cuba, [3]Kumamoto Univ.) **Symbiosis of the two parasitic nematodes in millipede, Rhigonematidae and Travassosinematidae with evolutionary different origin.**

O18 Ochi, S.[1], Nakagaki, T.[2,3] and Sato, K.[2,3] ([1]Meiji Univ. Agri., [2]Hokkaido Univ. RIES, [3]Hokkaido Univ. GSS) **A Social Aggregation of *Caenorhabditis elegans* and its behavioral mechanism.**

O19 Hamaguchi, T.[1], and Hasegawa, K.[1] ([1]Chubu Univ.) **Molecular genetics of nematicidal action of the marigold exudate α-terthienyl.**

O20 Kadota, Y.[1], Sato, K.[1], Uehara T.[2], Ishihama, N.[1], Iino, E.[1,3], Maki, N.[1], Suzuki, T.[4] and Shirasu, K.[1,3] ([1]RIKEN CSRS, [2]CARC/NARO, [3]Univ. of Tokyo, [4]Chubu Univ.) **Plant immunity against root-knot nematode.**

O21 Miyama, A.[1] and Shinya, R.[1,2] ([1]Meiji univ., [2]JST PRESTO) **Light intensity affects the induction of *Meloidogyne incognita* male.**

O22 Sato, K.[1], Kadota, Y.[1], Pamela, G.[1], Uehara, T.[2], Bino, T.[3], Yamaguchi, K.[3], Murata, G.[4], Uesugi, K.[4], Saito, T.[5], Maki, N.[1], Shigenobu, S.[3], Mukhtar, MS.[6] and Shirasu, K.[1,7] ([1]RIKEN CSRS, [2]CARC/NARO, [3]NIBB, [4]KARC/NARO, [5]NIVFS, [6]UAB, [7]Univ. of Tokyo) **Mining and functional analyses of root-knot nematode effectors.**

O23 Ohata, S.[1], Ushijima, K.[1], Tabuchi, H.[2], Tahara, M.[1], Monden, Y.[1] ([1]Okayama Univ., [2]KARC/NARO) **Gene expression profiling associated with *Meloidogyne incognita* resistance in sweetpotato.**

O24 Suwa, N.[1], Shimizu, M.[2], Suga, K.[1], Arakida, N.[1], Nishinaka, M.[3], Katayama, K.[3] and Nishimiya, S.[1] ([1]Ibaraki Agric. Res. Inst., [2]Ibaraki Pref. Central Agriculture and Forestry Office, [3] NICS) **Reducing damage of root-knot nematodes by cultivation of the southern root-knot nematode resistant sweet potato line.**

O25 Tateishi, Y.[1] and Uehara, T.[1] ([1]CARC/NARO) **Occurrence of *Xiphinema* species in major producers of traditional ornamental trees.**