

2012 Korea-Japan Joint Symposium on Nematology
2012 韓日 共同 線蟲學 Symposium

Diagnosis and management of plant-parasitic nematodes in the era of globalization

11-13 October 2012, Jeju, Korea

6th (final) announcement



Organized by



National Academy
of Agricultural
Science,
RDA, Korea



National Institute of
Horticultural &
Herbal Science,
RDA, Korea

Co-organized by Korea Nematology Research Forum

PREFACE

Environment friendly pest management of is a one of the issues in agriculture as well as in IPM (Integrated Pest Management) of crops in the world. Rapid and correct diagnosis of important agricultural nematodes is the first step for the successful management of nematode problems in agro-ecosystems.

Korea and Japan have a common interest in developing nematode management system in the era of global FTA because the current agricultural ecosystem is threatened by expanded exchange of agricultural products among the countries.

It is a very timely step to organize a joint symposium on nematology between Korean and Japanese nematologists to discuss current diagnosis system and environment-friendly management of nematode problems. It will be a good chance for the nematologists in both countries to get a new insight on nematode problem and its solution for the future agriculture in this region.

Organizing Committee

Chairmen

Dr. Dong Ro Choi	Director General, National Institute of Horticultural & Herbal Science, RDA, Korea
Dr. Seung Yong Ra	Director General, National Academy of Agricultural Science, RDA, Korea

Local committee members

Dr. Jae Kook Lee	National Academy of Agricultural Science, RDA, Korea
Dr. Byeong Yong Park	
Dr. Young Ho Kim	Seoul National University, Korea
Dr. Myoung Rae Cho	National Institute of Horticultural & Herbal Science, RDA, Korea

Japanese committee members

Dr. Takayuki Mizukubo	President, Japanese Nematological Society, NARO National Agricultural Research Center, Japan
Dr. Hideaki Iwahori	NARO Kyushu Okinawa Agricultural Research Center, Japan
Dr. Takashi Narabu	NARO Hokkaido Agricultural Research Center, Japan
Dr. Toyoshi Yoshiga	Saga University, Japan

Abstract submission

Abstracts for the invited speakers and poster session

- Please send your abstract to Dr. Byeong Yong Park (daggernema@korea.kr), FAX 82-31-290-0406
- Please use the format in this announcement. **Submit by September 16, 2012.**
 - ***If you are not invited for oral presentation, your abstract will be in poster session.***
 - ***Poster size : ca. 118cm high X ca. 84cm wide.***

Symposium venue and hotel

- **Symposium venue : Jeju Oriental Hotel, Samdo-2-dong, Jeju, Korea.**
 - **All the symposiums and poster session will be held at the hotel meeting room. (2nd floor).**
 - **Due to the limited space, posters will be put on the wall inside the room. Please find your poster number at the registration desk.**
 - The local committee reserved hotel rooms for the symposium participants. Please make reservation through our local committee by indicating the number of rooms you need on the registration form attached in this announcement. The hotel and the local committee will assign the rooms on your arrival. If you arrive earlier than Oct. 10, please ask the hotel for your room at the same official fare. Room extension after the symposium is also available.
 - **Hotel Phone : 82-64-752-8222, FAX 92-64-752-9777, <http://japan.oriental.co.kr/>**
- Fare : 140,000 KRW/night including tax (official rate, normal rate 258,940 KRW/night), twin bed including breakfast buffet for 2 person/room. For Saturday and Sunday, the fare is 160,000 KRW/night.
- **On your arrival at the hotel, ask your room number to the desk staff and tell them you are a symposium participant. If there's any problem, try to find Mr. Park Hyo Sung (hotel manager).**

Registration

- **Please make registration by September 16, 2012 by sending the registration form to Dr. B. Y. Park (daggernema@korea.kr), FAX 82-31-290-0406.**
- Registration fee : 200,000 KRW/person, **Retired nematologists, spouse and student are 100,000KRW/person. Please make payment on your arrival. Cash only.**
- The fee will cover all the symposium materials and coffee breaks.
- **Registration desk will open from 10:00, Oct. 11. to 13:00, Oct 12.**

Official tour

- The local committee will organize an official tour to major tour spots in Jeju and a field trip to agricultural research centers in Jeju.
- The official tour and the field trip are free of charge for all the meeting participants including spouse.

Welcome dinner and Official dinner

- All participants are invited to the welcome dinner on Oct. 11, and official dinner on Oct. 12. The dinners are partially sponsored by NAAS and NIHHS, RDA, Korea.

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If you have questions or need help, please send e-mail to Dr. M. R. Cho (mrchook@korea.kr).

11 October 2012 (Thursday)

13:00 Registration

13:20 Opening ceremony : **Chairman : Dr. M. R. Cho (NIHHS, RDA)**

- **Welcome remark : Dr. Dong Ro Choi**

(Director General, Natl. Inst. of Hort. & Herbal Science, RDA, Korea)

13:30 Keynote speech

- **Dr. Nobuyoshi Ishibashi** (former President, Japanese Nematological Society, former Professor, Saga University) : The importance of free-living nematodes in soil ecosystems and life science.
- **Dr. Young Eoun Choi** (former President, Korean Society of Applied Entomology, Emeritus Professor, Kyungpook Natl. Univ.) : History and Achievements of Nematology in Korea.

14:30 Coffee break + group photo

Symposium I: Nematode taxonomy and diagnosis

Session 1. Chairman: Dr. Toyoshi Yoshiga (Saga University)

15:00 **Dr. Hideaki Iwahori** (NARO Kyushu Okinawa Agricultural Research Center): Practical identification methods of plant-parasitic nematodes by PCR-RFLP, species-specific primers, DNA sequences.

15:30 **Jiyeong Kim/Dr. Joong Kee Park** (Chungbuk Natl. Univ.): Mitochondrial DNA as a genetic marker for nematode phylogenetics and species identification of *Bursaphelenchus* species.

16:00 **Dr. Koki Toyota** (Tokyo University of Agriculture and Technology): A novel nematode diagnostic method by the direct quantification of plant-parasitic nematodes in soil with real-time PCR.

Session 2. Chairman: Dr. D. G. Kim (Kyungpook Agricultural Bureau)

16:30 **Dr. Haerim Han** (Natl. Forestry Res. Institute): Status of pine wilt nematode research in Korea.

17:00 **Dr. Takuya Aikawa** (Forestry and Forest Products Research Institute): A simple and rapid diagnosis of pine wilt disease using loop-mediated isothermal amplification.

17:30 **Dr. Chang Hwan Bae** (National Institute of Biological Resources): Secondary structure models of D2-D3 expansion segments of 28S rRNA for Hoplolaiminae species.

18:00 Discussion on future collaboration

Chairman: Dr. M. R. Cho (Natl. Inst. of Hort. & Herbal Science)

19:00 Welcome dinner (Hosted by Dr. D. R. Choi, DG of NIHHS, RDA, Korea)

12 October 2012 (Friday)

Symposium II: Environment and IPM of plant-parasitic nematodes

Session 1. Chairman: Dr. Kazuyoshi Futai (former Kyoto University)

09:00 Dr. Hiroaki Okada (National Institute for Agro-Environmental Sciences): Nematode community as an environmental indicator.

09:30 Dr. Byeong Yong Park (Natl. Academy of Agri. Sci): Effects of heavy metal contamination on soil nematode community structure.

10:00 Dr. Takayuki Mizukubo (NARO National Agricultural Research Center): Recent IPM tactics in nematode control in Japan.

10:30 Coffee break + Poster session

Session 2. Chairman : Dr. Young Ho Kim (Seoul Natl. Univ.)

11:00 Dr. Dong Woon Lee (Kyungpook National University): Wood water content and black pine bast scale, *Matsucoccus thunbergianae*, infestation affect pine wood nematode, *Bursaphelenchus xylophilus*, in Japanese black pine twigs.

11:30 Dr. Takashi Narabu (NARO Hokkaido Agricultural Research Center): Control of potato cyst nematode by application of hatching factors.

12:00 Jae Yong Chun (QIA, Plant Quarantine Technology Center): Recently detected nematodes in Plant Quarantine of Korea.

12:30 Discussion on current nematology issues in Korea and Japan
Chairman: Dr. Young Ho Kim (Seoul Natl. Univ.)

13:00 Lunch

14:00 Field trip : Jeju Citrus Experiment Station

19:00 Official Dinner (Hosted by Dr. S. Y. Ra, Director General, NAAS, RDA, Korea)

13 October 2012 (Saturday)

09:00-16:00 Official tour (course may change)

- Visit to Agri. Res. Center for Climate Change
- Visit to major tour spots in Jeju

<Abstract form>

Evaluation of nematicidal effects of *Abcdefg hijilmn* on root-knot nematode *Meloidogyne incognita*

Cho, Myoung Rae, Taek Joon Kang, Hyung Hwan Kim, Kil dong Hong¹, and Seung Joon Ahn

National Institute of Horticultural & Herbal Science, RDA, Suwon, Korea

¹ *National Academy of Agricultural Science & Technology, RDA, Suwon, Korea*

Abcdefg hijilmn was tested on nematicidal effects in tomato to evaluate its biocontrol potential against root-knot nematode (*Meloidogyne incognita*, MI) The isolate was cultured in PDA suspension for 1 week, and either the whole mixture of the culture suspension or the extract was used. In a test using the whole culture suspension, 10, 20 and 30cc of the suspensions were mixed in paper cups containing 100cc Baroker® media inoculated with 2,000 eggs of MI. Tomato seedlings were planted in the cups after 48 hr incubation at 25 °C. After 4 weeks, the suppression effect of the suspensions on root gall numbers ranged from 69 to 83%.....
Another.....

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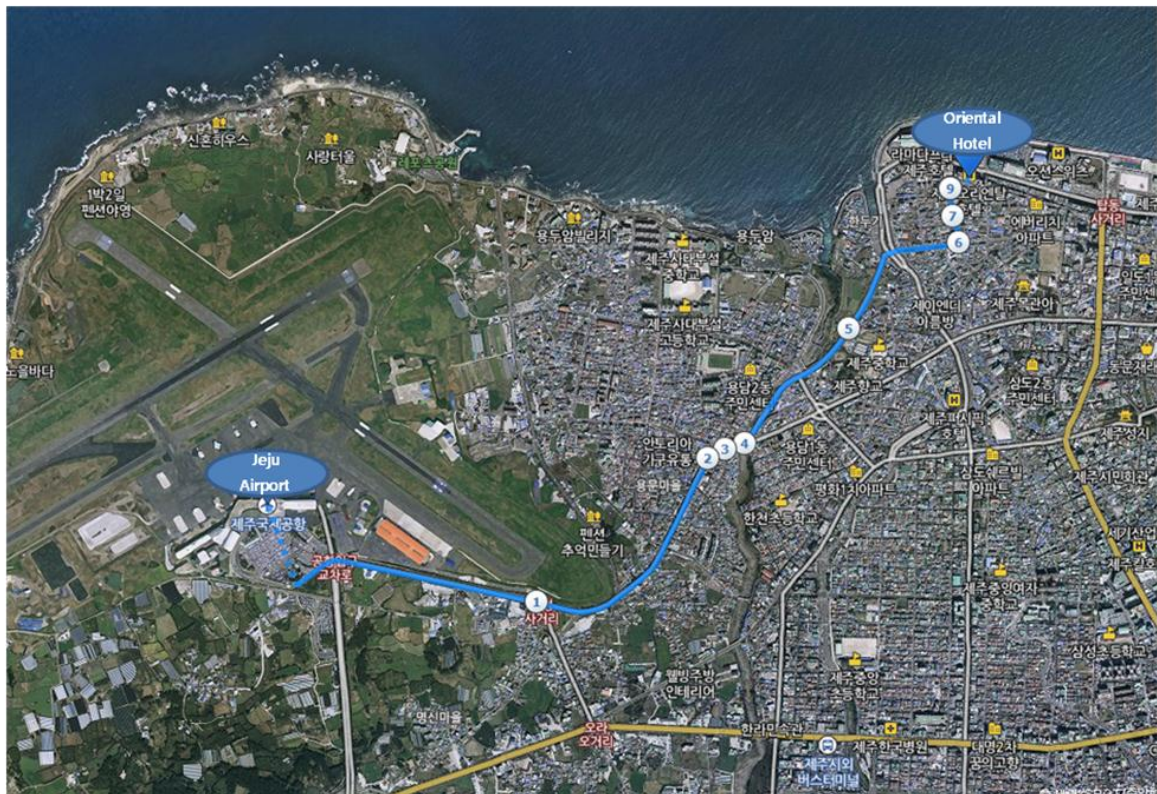
REGISTRATION FORM*		
2012 Korea-Japan Joint Symposium on Nematology		
October 11-13, 2012, Jeju Oriental Hotel, Jeju, Korea		
1. Name (Family name, given name)		
2. Position and Organization		
3. Mailing Address		
4. Phone, Fax, e-mail address	Phone FAX	e-mail
5. Title of Paper		
6. Type of presentation	Oral/poster	
7. Accommodation required at Oriental Hotel	Yes/No	
- Number of room		
- Check in /Check out	Check in : Oct. ??, check out : Oct. ??	
8. Date and time of arrival		
9. Date and time of departure		
10. I will participate the official tour	Yes/No	
- Number of participants		
11. Signature	Date:	

*** Please fill out this form and send to Dr. B. Y. Park (daggernema@korea.kr), by Sept. 16, 2012.**

Guide to Jeju, Korea

1. How to get to Oriental Hotel, Jeju

- From Jeju International Airport : Only 3.2 km to hotel. Please take a taxi to Oriental Hotel. It will take about 15 min.



2. Weather in Jeju

- Mid October in jeju is a perfect season with daily average temperature around 18~19℃ .
- We recommend you to bring worm cloth because early morning and night can be cooler than expected.
- Umbrella may be needed.

3. Electricity

- The standard voltage in Korea is 220 volts.