



XIII

INTERNATIONAL NEMATOLOGICAL SYMPOSIUM

NEMATODES AND OTHER ECDYSOZOA UNDER CHANGING ENVIRONMENTS

PROGRAMME

**PETROZAVODSK, REPUBLIC OF KARELIA, RUSSIA
KARELIAN RESEARCH CENTRE
RUSSIAN ACADEMY OF SCIENCES
29 JULY – 4 AUGUST 2019**



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Alexander Yu. Ryss – DSc, Zoological Institute of the Russian Academy of Sciences, Saint-Petersburg

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Sergey A. Subbotin – PhD, Centre of Parasitology, Institute of Ecology and Evolution of RAS, Moscow

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Nic Smol – Nematology Research Unit, Department Biology, Ghent University, Belgium

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Nina N. Nemova – RAS Corresponding member, KarRC RAS, Petrozavodsk, chairperson

Viktor A. Ilyukha – DSc, director of IB KarRC RAS, Petrozavodsk, deputy chairperson

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Mikhail V. Pridannikov – PhD, Centre of Parasitology, Institute of Ecology and Evolution of RAS, Moscow, deputy chairperson

Anna A. Sushchuk – PhD, IB KarRC RAS, Petrozavodsk, secretary

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Sergey V. Bugmyrin – PhD, IB KarRC RAS, Petrozavodsk

Victoria V. Seiml-Buchinger – PhD, IB KarRC RAS, Petrozavodsk

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Sergey G. Sokolov – PhD, IB KarRC RAS, Petrozavodsk

Galina A. Yakovleva – PhD, IB KarRC RAS, Petrozavodsk

29 of July 2019 (Monday)

Place: Foyer of Main Conference Hall of the KarRC RAS,
Pushkinskaya St. 11, 2nd floor

13⁰⁰–18⁰⁰ REGISTRATION. FREE TIME.

18⁰⁰–21⁰⁰ WELCOME PARTY. PHOTO SESSION

30 of July 2019 (Tuesday)

9⁰⁰–10⁰⁰ REGISTRATION

Place: Foyer of Main Conference Hall of the KarRC RAS,
Pushkinskaya St. 11, 2nd floor

10⁰⁰–10¹⁰ SYMPOSIUM OPENING

Bakhmet Olga N. – Head of the Karelian Research Centre of the Russian Academy of Sciences, RAS Corresponding member
Nemova Nina N. – Scientific Leader (Biological Science) of the Karelian Research Centre of the Russian Academy of Sciences, RAS Corresponding member
Ilyukha Viktor A. – Director of Institute of Biology of the Karelian Research Centre of the Russian Academy of Sciences, DSc

10¹⁰–13⁰⁰ PLENARY SESSION

Co-Chairs: Spiridonov Sergey E., Ryss Alexander Yu.

Place: Main Conference Hall of the KarRC RAS,
Pushkinskaya St. 11, 2nd floor

10¹⁰–10³⁵ **Spiridonov, Sergey E.**
RUSSIAN SOCIETY OF NEMATOLOGISTS (RSN) AND THE HISTORY OF HOLDING INTERNATIONAL RSN SYMPOSIA

10⁴⁰–11⁰⁵ **Ryss, Alexander Yu.**
EVOLUTION OF THE COMPLEX LIFE CYCLES OF WOOD-INHABITING NEMATODES, NEMATODA: APHELENCHOIDEA

11¹⁰–11³⁵ **Perry, Roland N.**
NEMATODE SURVIVAL

11⁴⁰–12⁰⁰ COFFEE-BREAK

12⁰⁰–12²⁵ **Yushin, Vladimir V., Gliznutsa L. A., Sokolova E. A., Zograf J. K.**
MALE GAMETES IN THE ECDYSOZOAN WORMS: EVERYTHING'S ALRIGHT!

12³⁰–12⁵⁵ **Zinovieva Svetlana V.**
INVOLVEMENT OF PROTEINASE INHIBITORS IN PLANT RELATIONSHIPS WITH PARASITIC NEMATODES (TOMATO PLANTS – ROOT-KNOT NEMATODE *MELOIDOGYNE INCOGNITA*)

13⁰⁰–14³⁰ LUNCH

14³⁰–16³⁰ SESSION 1
«BIOLOGY, ECOLOGY, PHYSIOLOGY AND DIVERSITY OF NEMATODES AND OTHER ECDYSOZOA»

Co-Chairs: Yushin Vladimir V., Nicole Smol

14³⁰–15⁴⁵ SESSION PRESENTATIONS

14³⁰–14⁴⁵ **Malysheva S. V., Efeikin B. D.**
STUDY OF MICROEVOLUTIONARY PROCESSES IN PARASITIC NEMATODES FROM MILLIPEDES OF WESTERN CAUCASUS

14⁵⁰–15⁰⁵ **Nicole Smol, Tania Nara Bezerra, Wilfrida Decraemer, Ursula Eisendle-Flöckner, Oleksandr Holovachov, Reyes Peña Santiago, Daniel Leduc, Dmitry Miljutin, Jyotsna Sharma, Alexei Tchesunov, Vadim Mokievsky, Virág Venekey, Zeng Zhao, Mike Hodda, Ann Vanreusel.**
UPDATE ON NEMYS – AN EVOLVING ONLINE DATABASE WITH TAXONOMIC AND ECOLOGICAL INFORMATION ON NEMATODES

15¹⁰–15²⁵ **Tabolin S. B., Migunova V. D., Volkov Ya. A.**
PLANT-PARASITIC NEMATODES ASSOCIATED WITH GRAPEWINES IN CRIMEA

15³⁰–15⁴⁵ **Nasr Esfahani Mehdi, Motamedi M., Bazgir E., Darvishnia M.**
PRESENT STATUS OF GENETIC CONSTITUTE OF IRANIAN WHEAT ACCESSIONS IN RESPONSE TO *HETERODERA FILIPJEVI*

15⁴⁵–16⁰⁰ COFFEE-BREAK

15⁴⁵–16³⁰ POSTER SESSION 1
«BIOLOGY, ECOLOGY, PHYSIOLOGY AND DIVERSITY OF NEMATODES AND OTHER ECDYSOZOA»

16⁰⁰–16³⁰ POSTER'S DISCUSSION
(3 minutes per poster presentation)

Claeys Myriam, Handayani N. D., Lestari P., Yushin V., Dikin A., Helder J., Bert W.
ULTRASTRUCTURE OF UNHATCHED CYST NEMATODES *GLOBODERA ROSTOCHIENSIS* AND *HETERODERA SCHACHTII* REVEALED BY SELF-PRESSURISED RAPID FREEZING

Vasilj'eva O. B., Seiml-Buhinger V. V.
LIPID PROFILE OF *GLOBODERA ROSTOCHIENSIS* WOLL

Mordukhovich V. V., Fadeeva N. P., Semenchenko A. A., Zograf J. K., Yushin V. V.
 NEW GENUS AND TWO NEW SPECIES OF LEPTOSOMATIDAE (NEMATODA: ENOPLIDA) FROM THE KURIL-KAMCHATKA TRENCH (THE NORTHWEST PACIFIC)

Nigamatzyanova L. R., Fakhrullina G. I., Shajhulova S. F., Akhatova F. S., Fakhrullin R. F.
 INVESTIGATION OF THE INTERACTIONS WITH OIL-DEGRADING *ALCANIVORAX BORKUMENSIS*

Odoevskaya I. M., Kudryashova I. B., Kurnosova O. P., Rekstina V. V., Rudenskaya Yu. A., Ziganshin R. H., Kalebina T. S.
 EXCRETORY-SECRETORY PROTEINS OF *TRICHINELLA NATIVA* MUSCLE LARVAE REVEALED AT DIFFERENT CULTIVATION TIMES

Odoevskaya I. M., Kudryashova I. B., Kurnosova O. P., Rekstina V. V., Rudenskaya Yu. A., Ziganshin R. H., Kalebina T. S.
 PROTEOMIC ANALYSIS OF *TRICHINELLA SPIRALIS* AND *TRICHINELLA PSEUDOSPIRALIS* MUSCLE LARVAL EXCRETORY-SECRETORY PROTEINS

Popov I. O., Popova E. N.
 IDENTIFICATION OF CLIMATIC PREDICTORS RESTRICTING DISTRIBUTION OF CASTOR BEAN TICK *IXODES RICINUS*

Khusainov R. V.
 ON THE MORPHOLOGY OF GENUS *SEINURA* NEMATODES (APHELENCHINA: APHELENCHOIDIDAE)

Naumova T. V., Gagarin V. G.
 CURRENT STATE OF THE FREE-LIVING NEMATODEFAUNA OF LAKE BAIKAL

Vadim Mokievsky, Tania Nara Bezerra, Wilfrida Decraemer, Ursula Eisendle, Mike Hodda, Oleksandr Holovachov, Daniel Leduc, Dmitry Miljutin, Reyes Peña-Santiago, Jyotsna Sharma, Nicole Smol, Alexei Tchesunov, Ann Vanreusel, Virág Venekey and Zeng Zhao.
 MORPHOLOGICAL SPECIES DESCRIPTIONS OF FREE-LIVING AQUATIC NEMATODES: MEASUREMENTS, CHARACTERS AND THEIR PRESENTATION IN TAXONOMIC PUBLICATIONS

16 ³⁰ –17 ⁰⁰	OPEN TALKS (POPULAR SCIENCE AND EDUCATIONAL LECTURES)
16 ³⁰ –17 ⁰⁰	Yushin Vladimir V. NEMATODES: PROGRESS IN DEAD END OF EVOLUTION
17 ⁰⁰	PHOTOSESSION of the participants of the symposium
Place:	In front of main building of KarRC RAS, Pushkinskaya St. 11
31 of July 2019 (Wednesday)	
9 ³⁰ –12 ⁰⁰	SESSION 2 «PARASITIC NEMATODES: DIVERSITY AND INTERACTIONS WITH HOSTS»
Co-Chairs:	Perry Rolad N., Ieshko Eugeny P.
Place:	Main Conference Hall of the KarRC RAS, Pushkinskaya St. 11, 2 nd floor
9 ³⁰ –9 ⁵⁵	Ieshko E. P., Nikonorova I. A., Bugmyrin S. V. – plenary presentation POPULATION PARAMETERS OF PARASITIC COMMUNITIES: SPECIES RICHNESS AND RELATIVE ABUNDANCE OF NEMATODES IN COMMON SHREW (<i>SOEX ARANEUS</i> LINNAEUS, 1758)
10 ⁰⁰ –10 ⁴⁰	SESSION PRESENTATIONS
10 ⁰⁰ –10 ¹⁵	Polyanina K. S., Ryss A. Yu. LIFE CYCLES OF XYLOBIOTIC NEMATODES WITH SPECIAL REFERENCE TO THREE SPECIES PARASITIZING DECIDUOUS TREES
10 ²⁰ –10 ³⁵	Bugmyrin S. V., Spiridonov S. E. FIRST RECORD ON THE INFESTATION OF SMALL RODENTS BY <i>BAYLISASCARIS TRANSFUGA</i> (ASCARIDOIDEA, NEMATODA) IN NATURAL HABITATS
10 ⁴⁰ –11 ⁰⁰	COFFEE-BREAK
11 ⁰⁰ –12 ⁰⁰	POSTER SESSION 2 «PARASITIC NEMATODES: DIVERSITY AND INTERACTIONS WITH HOSTS»

11⁰⁰–12⁰⁰

POSTER'S DISCUSSION

(3 minutes per poster presentation)

Anikieva L. V.

NEMATODES OF NATIVE AND INTRODUCED POPULATIONS OF THE EUROPEAN SMELT *OSMERUS EPERLANUS* L.

Bespyatova L. A., Bugmyrin S. V.

TROMBICULID MITES (ACARIFORMES: TROMBICULIDAE) HOSTED BY BANK VOLES IN THE REPUBLIC OF KARELIA

Butenko K. O., Korobushkin D. I., Gongalsky K. B., Saifutdinov R. A., Shesteporov A. A., Zaitsev A. S. PARASITIC NEMATODES OF RICE IN RUSSIA

Lebedeva D. I., Yakovleva G. A.

NEMATODES OF RARE BIRDS SPECIES IN KARELIA

Matveeva E. M., Bespyatova L. A., Bugmyrin S. V., Sushchuk A. A., Seiml-Buhinger V. V., Pavlova T. V., Martjanov R. S., Protasov Yu. G.

ENVIRONMENTAL MONITORING OF MUSEUM-RESERVE «KIZHI»: CONTRIBUTION OF LABORATORY FOR ANIMAL AND PLANT PARASITOLOGY OF THE IB KarRC RAS TO RESEARCH OF NEMATODES AND OTHER ECDYSOZOA IN KIZHI SKERRIES

Nikonorova I. A., Bugmyrin S. V., Ieshko E. P.

NEMATODE FAUNA OF COMMON SHREW (*SOREX ARANEUS*) IN SOUTHERN KARELIA

Tikhomirova N. D., Pridannikov M. V., Ryss A. Yu.

MIGRATING ROOT NEMATODES IN CROP FIELDS IN THE CENTRAL CHERNOZEM REGION

Udalova Zh. V., Gins M. S.,

Gins V. K., Zinovieva S. V.

INFLUENCE OF ROOT-KNOT NEMATODE MELOIDOGYNE INCOGNITA ON OXIDATIVE PROCESSES IN TOMATO PLANTS

Shaykhulova S. F., Fakhrullina G. I., Akhatova F. S.,

Nigamatzyanova L. R., Fakhrullin R. F.

RELATIONS BETWEEN OIL-DEGRADING BACTERIA *ALCANIVORAX BORKUMENSIS* AND NEMATODE *TURBATRIX ACETI*

Sherudilo E. G., Shibaeva T. G., Ikkonen E. N. PHYSIOLOGO–BIOCHEMICAL METHODS OF STUDY ON POTATO PLANTS INFESTED BY PARASITIC NEMATODE

Yakovleva G. A., Lebedeva D. I.

NEMATODES OF THE RED-BREASTED MERGANSER (*MERGUS SERRATOR* L.) IN KARELIA

Dong Woon Lee, Jung Joon Park,

Md. Faisal Kabir, Yong-hwa Choi.

SADIE (SPATIAL ANALYSIS BY DISTANCE INDICES) OF SOYBEAN CYST NEMATODE, *HETERODERA GLYCINES* AND *H. SOJAE* IN SOYBEAN FIELD

12 ⁰⁰ –14 ⁰⁰	LUNCH
14 ⁰⁰ –14 ³⁰	OPEN TALKS (POPULAR SCIENCE AND EDUCATIONAL LECTURES)
14 ⁰⁰ –14 ³⁰	Perry Roland N. PREPARING PAPER AND THE PUBLICATION PROCESS
14 ³⁰ –16 ⁴⁰	SESSION 3 «NEMATODE COMMUNITIES AND THEIR ROLE IN TERRESTRIAL AND AQUATIC ECOSYSTEMS. BIOMONITORING»
Co-Chairs:	Tchesunov Alexey V., Sushchuk Anna A.
Place:	Main Conference Hall of the KarRC RAS, Pushkinskaya St. 11, 2nd floor
14 ³⁰ –14 ⁵⁵	Tchesunov Alexey V. – plenary presentation SPECIES OF THE ORDER DESMOSCOLECIDA (NEMATODA, CHROMADORIA) IN THE SOUTH-EAST ATLANTIC ABYSS AND A REVIEW OF DEEP-SEA DESMOSCOLECIDA
15 ⁰⁰ –15 ²⁵	Sushchuk A. A., Matveeva E. M., Kalinkina D. S., Krivorot I. V. – plenary presentation ROLE OF VEGETATION IN CHANGES OF DIVERSITY AND STRUCTURE OF SOIL NEMATODE COMMUNITIES
15 ³⁰ –15 ⁴⁵	Matveeva E. M., Yurkevich M. G., Sushchuk A. A., Kalinkina D. S. – session presentation POSTAGROGENIC TRANSFORMATION OF PEAT SOILS AND VEGETATION AND CONNECTED CHANGES OF SOIL NEMATODES COMMUNITIES

15 ⁵⁰ –16 ¹⁰	COFFEE-BREAK
15 ⁵⁰ –16 ⁴⁰	POSTER SESSION 3 «NEMATODE COMMUNITIES AND THEIR ROLE IN TERRESTRIAL AND AQUATIC ECOSYSTEMS. BIOMONITORING»
16 ¹⁰ –16 ⁴⁰	POSTER'S DISCUSSION (3 minutes per poster presentation)
	Kudrin A. A., Konakova T. N., Taskaeva A. A. and Kolesnikova A. A. EFFECT OF MICROCLIMATIC CONDITIONS ON NEMATODES IN THE TUNDRA SOILS OF THE EUROPEAN NORTHEAST OF RUSSIA (TRASPLANTATION EXPERIMENT)
	Matveeva E. M., Sushchuk A. A., Yurkevich M. G., Dubrovina I. A. SOIL NEMATODE COMMUNITIES OF INSULAR MEADOWS, FORMED ON SOILS CONTRASTING IN FERTILITY
	Milovankina A. A., Fadeeva N. P. NEMATODE COMMUNITIES OF THE BRACKISH AREAS OF THE SEA OF JAPAN
	Nigamatzyanova L. R., Fakhrullina G. I., Khakimova E. I., Akhatova F. S., Fakhrullin R. F. USING <i>CAENORHABDITIS ELEGANS</i> FOR INVESTIGATION THE IMPACT OF THE ANTIMICROBIAL EFFECT OF NANOCONTAINERS BASED ON GALLUASITE AND CURKUMIN
	Nigamatzyanova L. R., Fakhrullina G. I., Shajhulova S. F., Ishmuhametov I. R., Akhatova F. S., Fakhrullin R. F. DEVELOPMENT OF AN EFFECTIVE METHOD FOR THE BIODEGRADATION OF CRUDE OIL USING SOIL NEMATODE <i>CAENORHABDITIS ELEGANS</i>
	Popova E. N., Koukhta A. E., Popov I. O. USE OF THE SOIL NEMATODE FAUNA AND PINE STANDS GROWTH DATA IN INTEGRATED BIOINDICATION OF VARIOUS SOIL-CLIMATIC CONDITIONS OF THE EUROPEAN TAIGA

**Sushchuk A. A., Krivorot I. V.,
Yurkevich M. G., Matveeva E. M.**
VERTICAL DISTRIBUTION OF SOIL NEMATODES
IN A MEADOW BIOCENOSIS, SOUTH KARELIA

**Sushchuk A. A., Matveeva E. M.,
Butorina N. N., Popova E. N.,
Popov I. O., Gagarin V. G.**
COMPARATIVE ANALYSIS
OF THE SOIL NEMATODE COMMUNITIES
IN MEADOWS AND AGROCENOSSES:
REGIONAL FEATURES

**Trebukhova Yu. A., Pavlyuk O. N.,
Lutaenko K. A., Li Baoquan, Bo Song.**
TAXONOMIC COMPOSITION AND SPATIAL
DISTRIBUTION OF FREE-LIVING
MARINE NEMATODE COMMUNITIES
FROM THE INTERTIDAL ZONE IN SISHILI BAY,
YELLOW SEA COAST IN NORTHERN CHINA

16 ⁴⁰ –18 ⁰⁰	WORKSHOP «STATISTICS IN ECOLOGY OF NEMATODES. ASSESSMENT OF ENVIRONMENTAL FACTOR EFFECTS ON BIOLOGICAL PARAMETERS»
Chair:	Mokievsky Vadim O.

31 of July 2019 (Wednesday)	
9 ³⁰ –19 ⁰⁰	Intensive Training course on plant-parasitic nematodes (In Russian)
Co-Chairs:	M. V. Pridannikov, A. Yu. Ryss, R. V. Khusainov

1 of August 2019 (Thursday)	
9 ⁰⁰ –18 ⁰⁰	SCIENTIFIC AND FIELD EXCURSION
Place:	In front of main building of KarRC RAS, Pushkinskaya St. 11

ACQUAINTANCE OF THE PARTICIPANTS
OF THE SYMPOSIUM WITH OBJECTS OF NATURAL
AND CULTURAL HERITAGE OF THE NORTH

2 of August 2019 (Friday)

9 ³⁰ –11 ³⁰	SESSION 4 «CONTROL MEASURES OF ECONOMICALLY SIGNIFICANT AND QUARANTINE SPECIES OF PARASITIC NEMATODES»
Co-Chairs:	Pridannikov Mikhail V., Matveeva Elizaveta M.
Place:	Main Conference Hall of the KarRC RAS, Pushkinskaya St. 11, 2 nd floor
9 ³⁰ –9 ⁵⁵	Pridannikov Mikhail V. – plenary presentation INTEGRATION OF NEMATOLOGY AS A FIELD OF FUNDAMENTAL SCIENCE WITH APPLIED RESEARCHES: AN EXAMPLE OF COMMUNICATION OF ACADEMIC SCIENCE AND APPLIED DEVELOPMENTS IN THE FIELD OF PROTECTION OF PLANTS
10 ⁰⁰ –10 ⁴⁰	SESSION PRESENTATIONS
10 ⁰⁰ –10 ¹⁵	Sinkevich O. V., Lyabzina S. N., Evstratova L. P. PHYTOHELMINTHOLOGICAL STUDIES OF THE PREVALENCE OF POTATO CYST NEMATODE (<i>GLOBODERA ROSTOCHIENSIS</i> WOLL) IN KARELIA
10 ²⁰ –10 ³⁵	Fabiyi O. A., Olatunji G. A. SYNTHESIS AND APPLICATION OF FURFURAL FROM AGRO-CELLULOSIC WASTE MATERIALS AS CONTROL OPTION FOR <i>MELOIDOGYNE INCOGNITA</i> ON CARROT (<i>DAUCUS CAROTA</i>)
10 ⁴⁰ –11 ⁰⁰	COFFEE-BREAK
10 ⁴⁰ –11 ³⁰	POSTER SESSION 4 «CONTROL MEASURES OF ECONOMICALLY SIGNIFICANT AND QUARANTINE SPECIES OF PARASITIC NEMATODES»
11 ⁰⁰ –11 ³⁰	POSTER'S DISCUSSION (3 minutes per poster presentation) Odoyevskaya I. M., Seredkin I. V., Spiridonov S. E. THE CIRCULATION OF <i>TRICHINELLA</i> INVASIONS IN WOODLAND HABITATS OF THE RUSSIAN FAR EAST

Sinkevich O. V., Lyabzina S. N.
PHYTOHELMINTHOLOGICAL STUDIES
IN KARELIAN BRANCH OF ALL-RUSSIAN CENTRE
OF PLANT QUARANTINE

**Matveeva E. M., Seiml-Buchinger V. V.,
Yurkevich M. G., Sidorova V. V., Dubrovina I. A.**
EFFECT OF SOIL AMELIORANTS
ON THE DEVELOPMENT OF POTATO CYST
NEMATODE

Matveeva E. M., Sushchuk A. A., Mikhailova N. V.
MANAGEMENT OF INVASIVE SPECIES
(PROJECT DIAS): NEMATOLOGICAL DATA

**DongWoon Lee, Okki Abraham Mwamula,
Na Hee Been, Ahn Hyunjung, Kim Hyunguk,
Choi Inho, Choi Yong-hwa, Lee Kwang-su.**
EFFICACY OF SOME NEMATICIDAL
COMPOUNDS AGAINST TURFGRASS
PARASITIC NEMATODES

Jozef Coosemans.
OVERVIEW OF MOST ACTUAL PROBLEMS
OF NEMATODES ON BELGIUM FARMS

11 ³⁰ –12 ⁰⁰	OPEN TALKS (POPULAR SCIENCE AND EDUCATIONAL LECTURES)
11 ³⁰ –12 ⁰⁰	Nicole Smol. INTERNATIONAL MASTER OF SCIENCE IN AGRO-AND ENVIRONMENTAL NEMATOLOGY: PERSPECTIVES FOR RUSSIAN STUDENTS TO ATTEND THIS COURSE
12 ⁰⁰ –12 ³⁰	MEETING OF RUSSIAN SOCIETY OF NEMATOLOGISTS
12 ³⁰ –12 ⁵⁰	SYMPOSIUM CLOSING
12 ⁵⁰ –14 ²⁰	LUNCH
14 ²⁰ –15 ⁰⁰	EXCURSION AT THE MUSEUMS AND EXHIBITIONS OF KARELIAN RESEARCH CENTRE RAS
16 ⁰⁰ –20 ⁰⁰	GET TOGETHER

3 of August 2019 (Saturday)

10⁰⁰–14⁰⁰

OPEN SCIENTIFIC LECTORIUM

Place:

**Foyer and Main Conference Hall of the KarRC RAS,
Pushkinskaya St. 11, 2nd floor**

10⁰⁰–12⁰⁰

Popular science and educational lectures
(In Russian)

12⁰⁰–13⁰⁰

Master-classes for adults
"Practical nematology for gardeners and farmers"

13⁰⁰–14⁰⁰

Master-classes for children

4 of August 2019 (Sunday)

DEPARTURE OF PARTICIPANTS



MINISTRY OF SCIENCES AND HIGHER EDUCATION
OF THE RUSSIAN FEDERATION

RUSSIAN ACADEMY OF SCIENCES (RAS)
DEPARTMENT OF BIOLOGICAL SCIENCES OF RAS



RUSSIAN FUND FOR BASIC RESEARCH
(RFBR)



KARELIAN RESEARCH CENTRE
OF THE RUSSIAN ACADEMY OF SCIENCES
(KarRC RAS)



INSTITUTE OF BIOLOGY
OF KARELIAN RESEARCH CENTRE
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NATIONAL SCIENTIFIC CENTER OF MARINE BIOLOGY,
FAR EASTERN BRANCH,
RUSSIAN ACADEMY OF SCIENCES



ZOOLOGICAL INSTITUTE
OF THE RUSSIAN ACADEMY OF SCIENCES



RUSSIAN SOCIETY OF NEMATOLOGISTS
(RSN)



INTERREGIONAL
NON-GOVERNMENTAL ORGANIZATION
"PARASITOLOGICAL SOCIETY"



CORTEVA AGRISCIENCE

