

PROGRAM

MAPEEG-2011 Held by:

*FAR EASTERN BRANCH OF RUSSIAN ACADEMY OF SCIENCES,
A.V. ZHIRMUNSKY INSTITUTE OF MARINE BIOLOGY FEB RAS,
INSTITUTE OF BIOLOGY AND SOIL SCIENCE FEB RAS,
VLADIVOSTOK CITY ADMINISTRATION,
VLADIVOSTOK CITY DUMA (COUNCIL),
ADMINISTRATION OF NAKHODKA CITY DISTRICT,
VLADIVOSTOK PUBLIC FOUNDATION FOR DEVELOPMENT OF GENETICS*

Sponsors:

*NAKHODKA CITY TERRITORIAL ECOLOGICAL FOUNDATION,
APPLIED BIOSYSTEMS, MOSCOW, ARGO COMPANY, CHAMPION-VLADIVOSTOK AUTO
COMPANY*

Organizing Committee:

Yu.Ph. Kartavtsev, S.D. (convener), A.P. Kryukov, S.D., O.G. Koren, Ph.D., D.M. Atopkin,
Ph.D., S.V. Shedko, Ph.D., S.N. Sharina, Ph.D., S.M. Dolganov, Ph.D. (members).

Sunday, June 19

Arrival, Hotel accommodation in Vladivostok.

Monday, June 20

9-30 : **Breakfast & Departure to the IMB**

10-00-10-15 : **Registration**

10-15-10-30 : **Opening Remarks**

Igor S. Pushkarev, Head of Vladivostok City Administration.

Oleg G. Kolyadin, Head of Nakhodka City Administration.

Andrey V. Adrianov, Director of the A.V. Zhirmunsky Institute of
Marine Biology.

Tatyana A. Chernovalova, Executive Director of Nakhodka District
Ecological Fund

Valery M. Rozov, Vladivostok City Council Chairman.

Yuri P. Kartavtsev, MAPEEG-2011 Convener.

**Session 1. Evolutionary Genetics, Molecular Phylogenetics,
Barcoding & Genomics.**
(Oral Presentations)

10-30-12-30 : **Chair Person – S.D. Marina V. Kholodova**

1. **Yuri Ph. Kartavtsev**. Comparative mitogenomics, genetics of speciation,

phylogenetics and barcoding (30').

2. **Andrey N. Tatarenkov**. Population genetics and phylogeography of a selfing killifish, *Kryptolebias marmoratus* (30').

3. **Alexey P. Kryukov, L.N. Spiridonova, S. Nakamura, H. Suzuki**. Comparative phylogeography of two crow species (30').

4. **Marina V. Kholodova, V.A. Gorbatko**. Phylogeography of the Eurasian moose (30').

12-30-13-30 : **Lunch**

13-30-15-20 : **Chair Person – Ph.D. Andrey N. Tatarenkov**

5. **Sergey V. Shedko**. The presence of strong purifying selection at protein genes of salmonid mtDNA and its impact on the results of phylogenetic reconstructions (30').

6. **Olga A. Torgunakova, G.G. Khrisanphova, R.I. Ludanny, V.E. Khrisanphov, W.K. Prizenko, A.K. Bogeruk, T.A. Egorova, A.P. Ryskov, S.K.Semyenova**. Barcoding of the Russian common carp (*Cyprinus carpio* L.) populations and breeds (20').

7. **Svetlana N. Sharina, Y.Ph. Kartavtsev, K. Saitoh, J. Imoto, N. Hanzawa**. Molecular phylogeny of flatfish species (Teleostei, Pleuronectiformes) based on *Co-1* and *Cyt b* genes (20').

8. **Nataly N. Batisheva, Y.Ph. Kartavtsev, N.G. Bogutskaya**. Sequence divergence at mtDNA *Co-1* gene within Altai Osman genus *Oreoleuciscus* (Pisces, Cyprinidae, Leuciscinae) and close taxa (20').

9. **Sergei V. Turanov, S.N. Sharina, Y.Ph. Kartavtsev**. Sequencing of perch-like (Perciformes) fish species of Russia on *Co-1* gene with phylogenetic and taxonomic outcomes (20').

10. **Gohta Kinoshita, H. Suzuki, M. Nunome**. Pylogeographic history of the mountain hare in Hokkaido, Japan (20').

11. **Yulia V. Tatonova, G.N. Chelomina, V.V. Besprozvannykh**. A new source of clonorchiasis in the Primorskiy Kray. Hypothesis about its origin (20').

Coffee Break (10')

15-30-18-00 : **Chair Person – Ph.D. Sergey V. Shedko**.

12. **Li Zhou, Y. Wang, W-H. Li, J-F. Gui**. Transcriptome analysis of Hypothalamus and pituitary of gibel carp (30')

13. **Yang Wang, L. Zhou, W. Liu, Z. Li, J-F. Gui.** A polipoprotein regulates convergent movement by mediating the E-cadherin traffic via interaction with Rab5 (20').
14. **Tatiana Y. Gorpenchenko, G.K. Tchernoded, V.P. Bulgakov.** Programmed cell death in *Rubia cordifolia* cells transformed by agrobacterial *rolB* oncogene (20').
15. **Yuri Ph. Kartavtsev.** Insertion sequences in mtDNA of birds and fish: No full length but some short sequences detected. Signs of horizontal transmission or noise? (20').

#. Discussion on Reports (10').

19-00-21-00 : **Dinner & Welcome Party**

Tuesday, June 21

8-30- 9-00 : **Breakfast**

9-00-12-00 : **Receipt by the Mayor of Vladivostok City and excursion in Vladivostok**

12-00-13-00 : **Lunch**

Session 2. Microevolution. Population Genetic Structure of Species (Oral Presentations)

13-00-15-00 : **Chair Person – S.D. Alexey P. Kryukov**

16. **Oksana L. Zhdanova, Yuri Ph. Kartavtsev.** Complex nature in heterozygosity and quantitative trait relationship caused by intralocus interactions and multiple-locus averaging (20').

17. **Ilya Meschersky, V. Rozhnov, V. Ilyashenko, G. Tsidulko, D. Litovka et al.** Diversity of mtDNA lines of gray whale (*Eschrichtius robustus*) in Russian Eastern seas (20').

18. **Olga V. Apalikova, A.V. Podlesnykh.** MtDNA variability in *Carassius auratus* complex in Eurasia (20').

19. **Marina V. Tsvirka, V.P. Korablev, L.V. Frisman.** Genetic markers and differentiation in the ground squirrel subgenus *Colobotis* (*Spermophilus*, Sciuridae, Rodentia) (20').

20. **Nikolay Korablev, M.P. Korablev, V.V. Rozhnov, P.N. Korablev.** Phylogeographic characteristic of Raccoon dog introduced in Central part of European Russia (20').

21. **Dmitry M. Atopkin, S.V. Shedko.** Genetic characterization of far-eastern species of the genus *Crepidostomum* (Digenea: Allocreadiidae) by ribosomal DNA sequences (20').

Coffee Break (10')

15-10-16-50: **Chair Person – Professor Li Zhou**

22. **Jun Sato, T. Hosoda, A.P. Kryukov, I.V. Kartavtseva, H. Suzuki.** Genetic diversity of the Sable (*Martes zibellina*, Mustelidae) in Russian Far East and Hokkaido (20').

23. **Miroslav P. Korablev, V.V. Rozhnov, P.N. Korablev.** Intrapopulation genetic diversity of three Mustelid species (*Martes martes*, *Mustela putorius* and *Mustela lutreola*) in Central Russia by means of mtDNA control region and cyt b sequences (20').

24. **Sergey N. Kashtanov, S.L. Pishchulina, I.G. Meschersky, O.E. Lazebny, V.V. Rozhnov.** Gene Pool of Siberian Sable (20').

25. **Sofiko L. Pishchulina, I.G. Meschersky, L.V. Simakin, S.N. Kashtanov, O.E. Lazebny, V.V. Rozhnov.** Genetic diversity of the sable (*Martes zibellina*) in different parts of distribution area (20').

26. **Irina V. Lazebnaya, O.E. Lazebny, S.N. Kashtanov.** Study of sable populations with ISSR-fingerprinting (20').

Coffee Break (10')

Session 2. Microevolution. Population Genetic Structure of Species

17-00-18-20: **Chair Person – S.D. Irina V. Kartavtseva**

27. **Irina V. Kartavtseva.** Heterochromatin and microevolution (30').

28. **Vladimir P. Korablev, L.V. Frisman, M.V. Tsvirka.** Differentiation into superspecies *Spermophilus pygmaeus* by complex genetical indications (20').

29. **Marina V. Pavlenko, M.V. Tsvirka, V.P. Korablev, A.Y. Puzachenko.** Differentiation of Asian endemic fossorial rodents group "*Myospalax psilurus-Myospalax epsilanus*" (Rodentia, Spalacidae): genetics and morphological approaches (20').

#. Discussion on Reports (10').

19-00-20-00: **Dinner**

Wednesday, June 22

8-30-9-00 : **Breakfast**

Session 2. Microevolution. Population Genetic Structure of Species

9-00-10-50 : **Chair Person – Ph.D. Marina V. Pavlenko**

30. **Marina V. Pavlenko, V.V. Pereverzeva.** Variability of the cytochrome b gene of mitochondrial DNA in the striped field mouse *Apodemus agrarius* from South of the Russian Far East (20').

31. **Pavel A. Sorokin, Rozhnov V.V., Lukarevskiy V.S. et al.** Genetic diversity of Amur tiger in the Russian Far East, capability for noninvasive individual identification (20').

32. **Elena Y. Zvychnaynaya, A.A. Danilkin.** Mitochondrial DNA polymorphism in the genus *Capreolus* in Russia (20').

33. **Marina V. Katolikova, M.M. Gantsevich, R. Vainola, P.P. Strelkov.** Hybridizing mussels *Mytilus edulis* L. and *M.trossulus* Gould in the waters of Kola peninsula (White Sea, Barents Sea): patterns of distribution in different spatial scale (20').

34. **ABI representative presentation (30').**

Coffee Break (10')

11-00-12-40 : **Chair Person – Ph.D. Olga G. Koren**

35. **Galina V. Roslik, I.V. Kartavtseva.** Diversity of b chromosome morphotypes in *Apodemus peninsulae* (Rodentia) from the Far East of Russia (20').

36. **Alla B. Kholina, E.V. Artyukova, M.M. Kozyrenko, E.V. Aistova.** Genetic relationships of *Oxytropis chankaensis* Jurtz. and *O. oxyphylla* (Pall.) DC. (Fabaceae) inferred from analyses of nuclear and chloroplast genomes (20').

37. **Olga V. Nakonechnaya, A.B. Kholina, O.G. Koren, Y.N. Zhuravlev.** Allozyme Variation of the Relict Plant *Eleutherococcus sessiliflorus* (Araliaceae) (20').

12-40-13-40 : **Lunch**

Poster Session (20')

13-40-14-00 : Chair Person – Ph.D. Dmitry M. Atopkin

1. **Olga V. Chichvarkhina, Y.Ph. Kartavtsev.** Genetic and morphometric differentiation and population structure in dogwhelk, *Nucella heyseana* (Mollusca, Muricidae) in North-West Sea of Japan.
2. **Irina G. Rybnikova, G.M. Pushnikova, Y.Ph. Kartavtsev.** Genetic-and-biological variation and population structure of a Pacific herring, *Clupea pallasii* (Pisces, Clupeiformes) in northwestern Pacific.
3. **Anna Dakus.** The use of molecular techniques for population genetic analysis of the Pacific herring (*Clupea pallasii*) in the northwestern Pacific.
4. **Tatiana G. Ovchinnikova, I.V. Kartavtseva, I.N. Sheremetieva.** Chromosomal investigation of *Apodemus agrarius* (Rodentia) from Bolshoy Pelis Island.
5. **Uliana Gorobeiko.** Chromosomal investigation of Chiroptera from the Russian Far East.
6. **Pavel A. Sorokin, Rozhnov V.V., Lukarevskiy V.S.** STR polymorphism in Amur leopard in the Russian Far East.
7. **Elena Y. Zvychnaynaya, V.V. Rozhnov, A.H. Kuksin, A.D. Poyarkov.** Non-invasive individual identification in ecological studies of the Snow Leopard (*Uncia uncia*) in south Siberia.
8. **Nikolay O. Voronoy, A.Yu. Nikitenko, D.M. Atopkin.** Genetic variation of *Corbicula japonica* (Bivalvia: Corbiculidae) of the Russian Primorye territory revealed by mitochondrial *Co-1* gene sequences.
9. **Konstantin V. Rozhkovan, O.L. Burundukova, T.I. Muzarok, G.N. Chelomina, Yu.N. Zhuravlev.** Variability of 18S rDNA sequences in callus lines of *Panax ginseng* C.A. Meyer.
10. **Aleksey A. Vakunin.** Cytogenetic study of striped hamsters *Cricetulus barabensis* Pallas, 1773 (preliminary data).
11. **Irina V. Gafitskaya.** Investigation of potato spindle tuber viroid (PSTV) in the *Solanum tuberosum* L. collection of the Institute of Biology and Soil Sciences FEB RAS.
12. **Margarita S. Yatsunskaya, O.V. Nakonechnaya, O.G. Koren.** Allozyme Analysis of two Relict Water Plants, *Nelumbo komarovii* and *Euriale ferox*.
13. **Fisenko Petr V.** Genetic structure and demographic history of *Phasianus colchicums* population in Russian Far East.
14. **Anna A. Vilnet, V.A. Bakalin, N.A. Konstantinova.** Molecular phylogenetic studies in *Jungermannia* s.l. (Marchantiophyta, Jungermanniales).

15. **Irina V. Kulikova.** Palearctic phylogeography of the Mallard *Anas platyrhynchos*.

Mini Workshop/ School

14-00-17-00 : **Chair Person – S.D. Yuri Ph. Kartavtsev**

1. **Yuri Ph. Kartavtsev.** Practical training on nucleotide sequences: edition, submission, alignment, tree building and analysis of phylogeny (90').

Coffee Break (20')

2. **Andrey N. Tatarenkov. Basics of Phylogeography (90').**

17-00-18-00 : **Chair Person – S.D. Yuri Kartavtsev**

General Discussion on Reports (15').

1. **Yuri Ph. Kartavtsev.** Concluding remarks & Vladivostok Public Foundation for Development of Genetics meeting (30').

19-00-20-00 : **Dinner**

Thursday, June 23

7-30 - 8-00 : **Breakfast and departure to Nakhodka**

11-00 -13-00: **Receipt by the Mayor of Nakhodka City and excursion in Nakhodka**

13-00-19-00 : **Free day, Excursions & Visit to Vostok MBS**

20-00-23-00 : **Dinner, Closing Reception & Evening party by the fire**

Friday, June 24

8-30-9-00 : **Breakfast**

9-00-9-15 : **Departure to Vladivostok and Airport.**