



The 12th International
Symposium 2025
September 2 - 5

ABSTRACTS

MAPEEG-2025

MAPEEG 12th MEETING

VLADIVOSTOK & VOSTOK MBS

**Paltchevski st. 17,
690041 Vladivostok,
Russia**

PROGRAM



MAPEEG-2025 Held by:

*FAR EASTERN BRANCH OF RUSSIAN ACADEMY OF SCIENCES (FEB RAS),
A.V. ZHIRMUNSKY NATIONAL SCIENTIFIC CENTER OF MARINE BIOLOGY, NSCMB FEB RAS,
FEDERAL SCIENTIFIC CENTER OF BIODIVERSITY OF EAST-ASIA LAND BIOTA FEB RAS,
FAR EASTERN FEDERAL UNIVERSITY,
VLADIVOSTOK PUBLIC FOUNDATION FOR DEVELOPMENT OF GENETICS*

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Organizing Committee:

Yuri Ph. Kartavtsev (Chairman),

Dmitry Atopkin, Evgenya Bondar (Moderators), Olga Chichvarkhina, Diana Kachur, Irina Kartavtseva,
Oleg Katugin, Natalia Masalkova, Alla Oleinik, Alexander Redin,

Olesia Rutenko, Svetlana Sharina, Irina Sheremetyeva, Yulia Tatonova, Anna Zolotova (Members)

Program Committee:

Yuri Ph. Kartavtsev, Evgenya Bondar, Dmitry Atopkin, Irina Sheremetyeva

TUESDAY, SEPTEMBER 2

Arrival and Hotel Accommodation in Vladivostok.

WEDNESDAY, SEPTEMBER 3

9-30:10-15. **Registration at NSCMB Conference Hall.**

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

Yuri N. Kulchin, President of FEB RAS (Russia).

Igor Yu. Dolmatov, Director of the NSCMB (Russia).

Gulab D. Khedkar, Director Paul Hebert Centre for DNA Barcoding and Biodiversity Studies (India).

Yuri Ph. Kartavtsev, MAPEEG-2025 Chairman (Russia).

Session 1. Evolutionary Genetics & Genomics

(Oral Presentations)

10-30:12-10. **Chair Person – Ph.D. Gulab Khedkar.**

1. Yuri Ph. Kartavtsev

A.V. Zhirmunsky National Scientific Center of Marine Biology,

Far Eastern Branch, Russian Academy of Sciences, Vladivostok 690041, Russia

MITOGENOME OF WATER ORGANISMS: STRUCTURE, EVOLUTION AND IMPLICATIONS IN MOLECULAR PHYLOGENETICS (30').

2. Alla G. Oleinik¹, Andrey D. Kухlevsky¹, Evgeniia I. Bondar¹

¹*A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, 690041 Russia*

THE USE OF COMPLETE MITOCHONDRIAL GENOMES FOR IDENTIFICATION AND CLARIFYING THE TAXONOMIC STATUS OF ENDEMIC SPECIES: IMPLICATIONS FOR UNDERSTANDING OF PREVIOUSLY RECOGNIZED DIVERSITY (20').

3. **Alexander Ju. Dudnikov, Gennagy V. Vasiliev**

Institute of Cytology and Genetics, Novosibirsk 630090, Russia

Ka/Ks REVEALED GENES INVOLVED IN ADAPTIVE EVOLUTION OF *AEGILOPS TAUSCHII* (20').

4. **Olga S. Golosova, Marina V. Kholodova, Nadezhda V. Kashinina**

A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow 119071, Russia

FIRST REPORT ON PRION PROTEIN GENE VARIATION AMONG RUSSIAN RED DEER *CERVUS ELAPHUS SENSU LATO* ([ONLINE](#)) (20').

#. Discussion on Reports (10').

12-10:13-00. **Lunch.**

13-00:14-40. **Chair Person – Ph.D. Tatiana A. Nikolaeva.**

5. **Jin Li¹, Zhihui Yin¹, Hongtao Nie^{1*}**

¹*College of Fisheries and Life Science, Dalian Ocean University, 116023 Dalian, China*

GENOME-WIDE DNA METHYLATION LANDSCAPE OF MANILA CLAM (*RUDITAPES PHILIPPINARUM*) AND THE EPIGENETIC REGULATION MECHANISM OF IMMUNE RESPONSE INDUCED BY PATHOGENS ([ONLINE](#))

(30').

6. **Nikolay Yu. Neretin¹, Alexandra V. Bezmenova¹, Margarita A. Ezhova¹, Alexander B. Tzetlin¹, Dmitry A. Knorre², Tatiana V. Neretina¹**

¹*N.A. Pertsov White Sea Biological Station, Lomonosov Moscow State University, Russia;*

²*Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Russia*

SEQUENCING OF WHOLE OR PARTIAL MITOCHONDRIAL GENOMES AS A TOOL FOR STUDYING POPULATION STRUCTURE

(20').

7. **Alexander A. Epifantsev, Anastasiya G. Koroleva, Tuyana V. Sidorova, Lyubov V. Sukhanova, Evgenia A. Vakhteeva, Sergey A. Potapov, Olga Yu. Glyzina, Yulia P. Sapozhnikova***

Limnological Institute Siberian Branch of the Russian Academy of Sciences, 3 Ulan-Batorskaya, Irkutsk 664033, Russia

EFFECTS OF THERMAL ADAPTATION AND ACUTE STRESS IN WHITEFISH AT THE TRANSCRIPTOMIC AND EPIGENETIC LEVEL (20').

8. **Alexandra V. Bobrovskaya¹, Kristina V. Stolyarova¹, Elena E. Prokhorova¹**

¹Department of Zoology and Genetics, Laboratory of experimental zoology, Herzen State Pedagogical University of Russia, St. Petersburg, Russia

EXPRESSION OF LECTINS IN *PLANORBARIUS CORNEUS* SNAILS INFECTED BY TREMATODES (ONLINE) (20').

#. Discussion on Reports (10').

Coffee Break (10').

Session 2. Molecular Systematics, Barcoding and Phylogenetics
(Oral Presentations)

14-50:16-30. Chair Person – Ph.D. Evgeniia I. Bondar.

9. Gulab D. Khedkar.

Paul Hebert Centre for DNA barcoding and Biodiversity Studies

Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar-431004

ASSESSING TAXONOMIC DIVERSITY OF FISH ACROSS RIVER SYSTEMS IN INDIA: INTER AND INTRA-BASIN CALIBRATION (30').

10. Laibin Zhao¹, Zhixuan Zuo¹, Mengsi Fu¹, Die Xie², Yuzhi Xian², Shengke Li², Alexander Ju. Dudnikov³, Shunzong Ning², Lianquan Zhang², Chaolan Fan², Zhengang Ru¹, Dengcai Liu^{2,4}, **Ming Hao**²

¹Henan Key Laboratory of Hybrid Wheat, Henan Institute of Science and Technology, Xinxiang 453003, Henan, China; ²Triticeae Research Institute, Sichuan Agricultural University, Chengdu, Sichuan 611130, China; ³Institute of Cytology and Genetics, Novosibirsk 630090, Russia;

⁴State Key Laboratory of Crop Gene Exploration and Utilization in Southwest China, Sichuan Agricultural University, Chengdu 611130, Sichuan, China

SYSTEMATICAL MORPHOLOGY AND GENETIC COMPARISON DEFINED THE TWO SUBSPECIES OF *AEGILOPS TAUSCHII* (ONLINE) (20').

11. **Anastasiya A. Poroshina**¹, Tatiana A. Nikolaeva¹, Dmitry Y. Sherbakov¹

¹Limnological Institute SB RAS, Irkutsk, Russia

COMPARATIVE ANALYSIS OF REPRODUCTIVE STRATEGIES OF DAPHNIDAE USING INDIVIDUALLY ORIENTED MODELS AND MICROSATELLITE MARKERS (20').

12. **Uliana V. Gorobeyko**¹, Anastasiya A. Kadetova², Denis V. Kazakov^{3,4}, Alexey A. Maslov⁵, Sergey Yu. Stefanov⁶

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, 690022 Vladivostok, Russia and five others (see abstracts)

INTRASPECIFIC STRUCTURE OF *MYOTIS MACRODACTYLUS* BASED ON *CYTB* mtDNA SEQUENCES (20').

#. Discussion on Reports (10').

16-30:21-00. Welcome Party & Dinner (NCMB Lobby or Guest Hall).

THURSDAY, SEPTEMBER 4

10-00:12-00. Chair Person – Ph.D. Oleg N. Katugin.

Session 3. Molecular Systematics, Barcoding and Phylogenetics **(Continued, Oral Presentations)**

13. **Elena V. Zhuykova, Victor A. Mukhin**

Institute of Plant and Animal Ecology, Ural Branch of the Russian Academy of Sciences, March 8 St., 202, 620144 Yekaterinburg, Russia

IT'S NOT WHAT IT SEEMS: BARCODING OF A COMMON TINDER FUNGUS AS A REASON FOR RECONSIDERATION (*ONLINE?*) (30').

14. **Evgenia A. Vakhteeva¹, Anastasiya G. Koroleva¹, Vera M. Yakhnenko¹, Lyubov V. Sukhanova¹, Sergey A. Potapov¹, Alexander A. Epifantsev¹, Olga Yu. Glyzina¹, Ilya A. Aslamov¹, Viktor A. Palshin¹, Changxu Tian², Xian Li³, Yulia P. Sapozhnikova¹**

¹Limnological Institute Siberian Branch of the Russian Academy of Sciences, 3 Ulan-Batorskaya, Irkutsk 664033, Russia (jsap@mail.ru); ²Guangdong Research Center on Reproductive Control and Breeding Technology of Indigenous Valuable Fish Species, Guangdong Provincial Engineering Laboratory for Mariculture Organism Breeding, Guangdong Provincial Key Laboratory of Aquatic Animal Disease Control and Healthy Culture, Fisheries College, Guangdong Ocean University, Zhanjiang 524088, China (tiancx@gdou.edu.cn);

³Key Laboratory of Mariculture, Ministry of Education, Fisheries College, Ocean University of China, Qingdao 266001, PR China (lixian@ouc.edu.cn)

EFFECTS OF DIFFERENT LIGHT SPECTRA ON THE DEVELOPMENT OF WHITEFISH IN AQUACULTURE (20').

15. **Ludmila O. Katugina¹, Yulia V. Tatonova^{1,2}, Anna V. Izrailskaia^{1,2}, Mikhail Yu. Shchelkanov²**

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch, Russian Academy of Sciences, 100-letiya Street, 159, Vladivostok, 690022, Russia; ²G.P. Somov Research Institute of Epidemiology and Microbiology, Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Selskaya St. 1, Vladivostok 690022, Russia

POPULATION STRUCTURE OF *KOREOLEPTOXIS AMURENSIS*, THE FIRST INTERMEDIATE HOST OF TREMATODES (20').

16. **Irina V. Kartavtseva.**

Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch of the Russian Academy of Sciences, 690022 Vladivostok, Russia

MOLECULAR OR CHROMOSOMAL SPECIATION IN THE “MAXIMOWICZII” SPECIES GROUP OF THE GENUS ALEXANDROMYS? (20').

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

Session 4. Molecular Systematics, Barcoding and Phylogenetics
(Continued, Oral Presentations)

13-00:14-10. **Chair Person – Ph.D. Nikolay Yu. Neretin.**

17. **Tatiana A. Nikolaeva**, Anastasia A. Poroshina, Dmitry Y. Sherbakov
Limnological Institute SB RAS, Irkutsk, Russia

APPLICATION OF AUTOENCODER FOR THE ANALYSIS OF GENETIC SEQUENCES OF DAPHNIA: CLUSTERING POPULATION STRUCTURES OF BAIKAL *DAPHNIA* (30').

18. **Oksana L. Revutskaya**¹, Oksana L. Zhdanova², Efim Ya. Frisman¹

¹*Institute for Complex Analysis of Regional Problems, Far Eastern Branch, Russian Academy of Sciences, Sholom-Aleikhem st. 4, 679016 Birobidzhan, Russia;* ²*Institute of Automation and Control Processes, Far Eastern Branch, Russian Academy of Sciences, Radio st. 5, 690041 Vladivostok, Russia*

EVOLUTIONARY PROCESSES IN THE POPULATION DYNAMICS OF A SEX-STRUCTURED POPULATION WITH NON-OVERLAPPING GENERATIONS (20').

19. **Anastasia V. Striuchkova**

Department of Zoology and Ecology, Moscow State Pedagogical University, 119435 Moscow, Russia

GENETIC LINEAGES AS A STRATEGY FOR ECOLOGICAL SUCCESS: THE CASE OF THE PARTHENOGENETIC COSMOPOLITAN SPRINGTAIL *PARISOTOMA NOTABILIS* S.L. (20').

Coffee Break (10').

14-30:15-20. **Chair Person – Ph.D. Yulia V. Tatonova.**

20. **Artem A. Lyubas**¹, Alexander V. Kondakov¹, Alena A. Soboleva¹

¹*N. Laverov Federal Center for Integrated Arctic Research of the Ural Branch of the Russian Academy of Sciences, 163020 Arkhangelsk, Russia*

PHYLOGENY, DIVERSIFICATION, AND DEMOGRAPHIC HISTORY OF DUCK MUSSEL (*ANODONTA ANATINA*) SHED LIGHT ON PALEOGE-GRAPHIC EVENTS DURING THE NEOGENE–QUATERNARY (30').

21. **Anna Zolotova**¹, Alla Kasatkina², Yuri Kartavtsev¹

¹*A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Pal'chevskogo, 17, 690041, Vladivostok (Russian Federation)*

²V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Baltiyskaya Street 43, 690041, Vladivostok (Russian Federation)

STUDY OF NUCLEOTIDE SEQUENCES OF MITOCHONDRIAL (CO-1, 16S rRNA) AND NUCLEAR (28S rRNA, HISTONE H3) GENE MARKERS OF CHAETOGNATHS (CHAETOGNATHA, SAGITTOIDEA) USING THE EXAMPLES OF LEPTOSAGITTA ALBA AND PARASAGITTA ELEGANS (20').

#. Discussion on Reports (10').

FRIDAY, SEPTEMBER 5

Session 5. Molecular Systematics, Barcoding and Phylogenetics (Continued Oral, Presentations)

9-00:10-30. Chair Person – Ph.D. Tatiana Neretina.

22. **Yuri Ph. Kartavtsev**

*A.V. Zhirmunsky National Scientific Center of Marine Biology,
Far Eastern Branch, Russian Academy of Sciences, Vladivostok 690041, Russia*

EXAMPLES OF THE USE OF MOLECULAR MARKERS IN EVOLUTI-ONARY BIOLOGY AND FOR NEEDS OF MODERN SOCIETY (30')

23. **Olga Kuleshova¹, Iulia Baiandina^{1*}, Olga Krivenko¹**

Laboratory of functional genomics, A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia

THE DIVERSITY AND EVOLUTION OF LIGHT-SENSITIVE OPSINS IN CTENOPHORES (ONLINE**) (20').**

24. **Ksenia A. Kolosova¹, Tatyana Yu. Mayor²**

¹*Irkutsk State University, 1 Karl Marx St., Irkutsk, 664003 (Russia)*

²*Limnological Institute, Siberian Branch of the Russian Academy of Sciences,*

³*Ulan -Batorskaya St., Irkutsk 664033, Russia*

FIRST GENETIC DIVERSITY ASSESSMENT OF SYNCHAETA EHRENBERG, 1832 (ROTIFERA: MONOGONONTA: SYNCHAETIDAE) FROM LAKE BAIKAL (20').

Coffee Break (10')

10-20:11-30. Chair Person – S.D. Irina V. Kartavtseva.

25. **Galina V. Roslik¹, Irina V. Kartavtseva¹, Marina V. Pavlenko¹, Yuri A. Bazhenov²**

¹*Federal Scientific Center of the East Asia Terrestrial Biodiversity of the FEB RAS, Vladivostok, 690022, Russia;* ²*Federal State Budgetary Scientific Institution Institute of Natural Resources, Ecology and Cryology of the SB RAS, Chita, 672014, Russia*

DIVERSITY OF *B* CHROMOSOME MORPHOTYPES FOR *APODEMUS PENINSULAE* (RODENTIA) IN GEOGRAPHICAL POPULATIONS OF THE RUSSIAN FAR EAST (20').

26. **Anastasia L. Brykova¹, Lubov V. Frisman¹, Irina N. Sheremetyeva²**

¹*Institute for Complex Analysis of Regional Problems, Far East Branch of the Russian Academy of Sciences, Birobidzhan, 679016 Russia;* ²*Federal Scientific Center of East Asia Terrestrial Biodiversity, Far East Branch, Russian Academy of Sciences, Vladivostok, 690022 Russia*

POPULATION GENETIC RESEARCH OF SABLE (*MARTES ZIBELLINA* LINNAEUS, 1758) IN THE PRIAMURYE REGION (20').

27. **Ekaterina A. Kolesnikova^{1,2}, Diana K. Mitryushkina², Marina N. Kiseleva²**

¹*ITMO University, 197101 Saint-Petersburg, Russia;* ²*Saint Petersburg branch (GosNIORKH named after L.S. Berg) of the Federal Research Center "Russian Federal Research Institute of Fisheries and Oceanography" (VNIRO), 199053 Saint-Petersburg, Russia*

RAG1 AS A MARKER FOR GENETIC DIFFERENTIATION OF EUROPEAN CISCO (*COREGONUS ALBULA* LINNAEUS) AND SARDINE CISCO (*COREGONUS SARDINELLA VALENCIENNES*) (20').

#. Discussion on Reports (10').

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

Session 6. Microevolution. Population Genetic Structure of Species. Ecological Genetics (Oral Presentations)

13-00:14-40. **Chair Person – S.D. Lubov V. Frisman.**

28. **Irina V. Lazebnaya¹, Oleg E. Lazebny²**

¹*Vavilov Institute of General Genetics, Russian Academy of Sciences, Moscow, Russia;*

²*Koltzov Institute of Developmental Biology, Russian Academy of Sciences, Moscow, Russia*

POPULATION GENETIC STRUCTURE OF *BOS TAURUS* INFERRED FROM THE MHC CLASS II *DRB3* GENE (30').

29. **Yaroslav A. Utkin¹, Elena A. Interesova^{2,3}, Eugeni S. Zaharov⁴, Yuri A. Sleptsov⁵, Svetlana N. Poselskaya⁴, Vladimir A. Trifonov¹**

¹*Institute of Molecular and Cellular Biology, Siberian Branch of the Russian Academy of Sciences, 630090 Novosibirsk, Russia;* ²*Tomsk State University, 634050 Tomsk, Russia;*

³*Novosibirsk Branch of Russian Federal Research Institute of Fisheries and Oceanography ("ZapSibNIRO"), 630091 Novosibirsk, Russia;* ⁴*Institute of Natural Sciences of the North-*

Eastern Federal University named after M. K. Ammosov, 677000 Yakutsk, Russia; ⁵*Institute of Biological Problems of the North, Far Eastern Branch of the Russian Academy of Sciences, 685000 Magadan, Russia*

GENETIC DIVERSITY OF *CARASSIUS GIBELIO* IN NORTHERN ASIA

(20').

30. **Anastasiia A. Politaeva¹**, Evgeniia I. Bondar^{2,3}, Viktoriia D. Yagodina^{2,3}

¹*Far Eastern State Technical Fisheries University, 690087 Vladivostok, Russia;*

²*A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS (A.V. Zhirmunsky Institute of Marine Biology), 690041 Vladivostok, Russia;*

³*Far Eastern Federal University, 690600 Vladivostok, Russia*

GENETIC STRUCTURE OF POPULATIONS AND ECOLOGICAL FEATURES OF *APOSTICHOPUS JAPONICUS* IN THE KUNASHIR ISLAND AREA (20').

31. **Diana I. Kachur¹**, Anna A. Ponomareva^{1,2}

¹*A.V. Zhirmunsky Institute of Marine Biology, National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok 690041, Russia;*

²*“Primorsky Aquarium”, National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok 690922, Russia*

NEW MOLECULAR GENETIC ANALYSIS DATA FOR IDENTIFICATION OF DIATOM SPECIES *SKELETONEMA MENZELII* FROM THE SEA OF JAPAN (20').

#. Discussion on Reports (10').

Coffee Break (10')

14-50:16-00: **Chair Person – Ph.D. Alexander Yu. Dudnikov.**

32. **Marina V. Pavlenko¹**, A.Yu. Puzachenko², Yuri A. Bazhenov³

¹*Federal Scientific Center of the East Asia Terrestrial Biodiversity of the FEB RAS, Vladivostok, 690022, Russia;*

²*Institute of Geography, Russian Academy of Sciences, Moscow 109017, Russia;*

³*Federal State Budgetary Scientific Institution Institute of Natural Resources, Ecology and Cryology of the SB RAS, Chita, 672014, Russia*

EVOLUTION, SYSTEMATICS AND ADAPTATION OF ZOKORS - MYOSPALACINAE LILLJEBORG, 1866 (RODENTIA, MAMMALIA): SHOT REVIEW ON CONTEMPORARY INVESTIGATIONS OF THE TAXONOMY, PHYLOGENY, GENETIC DIVERSITY AND ECOLOGY (20').

33. **Dmitry N. Khomiak¹**, Maria A. Fominykh¹, Lidia E. Yalkovskaya¹, Petr A. Sibiryakov², Mikhail V. Chibiryak¹, Irina A. Vasil'eva¹, Alexandr V. Borodin¹

¹*Institute of Plant and Animal Ecology, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, 620144, Russia;*

²*LLC «GeneNote», Zhuldyz-2 micro-district, 55, Turksib district, Almaty, Republic of Kazakhstan*

NEW DATA ON MITOCHONDRIAL GENOME INTROGRESSION FROM THE NORTHERN RED-BACKED VOLE *CLETHRIONOMYS RUTILUS* (PALLAS 1779) TO THE BANK VOLE *CLETHRIONOMYS GLAREOLUS* (SCHREBER 1780) (ARVICOLINAE, RODENTIA) ON THE SOUTHERN URALS (20').

34. **Ekaterina S. Tokarskaya¹**, Polina G. Shumenko^{1,2}, Yulia V. Tatonova^{1,2}, Mikhail Yu. Shchelkanov²

¹ Federal Scientific Center of East Asia Terrestrial Biodiversity, Far Eastern Branch, Russian Academy of Sciences, 100-letiya Street, 159, 690022 Vladivostok, Russia; ² G.P. Somov Research Institute of Epidemiology and Microbiology, Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Selskaya St. 1, 690022 Vladivostok, Russia

SPECIES COMPOSITION OF THE GENUS *METAGONIMUS* (TREMATODA: HETEROPHYIDAE) IN THE RUSSIAN FAR EAST (20').

#. Discussion on Reports (10').

Coffee Break (10')

Session 4. Poster Presentations (30')

16-10:16-40. **Chair Person – S.D. Irina V. Kartavtseva.**

1. **Sofia V. Bulychева¹, Lidia E. Yalkovskaya¹, Eugenia A. Markova¹, Leyla V. k. Nadirli², Aleksandr V. Borodin¹**

¹Institute of Plant and Animal Ecology, Ural Branch, Russian Academy of Sciences, 620144 Yekaterinburg, Russia; ²Institute of Zoology of the Ministry of Science and Education of the Republic of Azerbaijan, AZ1004, Baku, Azerbaijan

PHYLOGENETIC RELATIONSHIPS OF THE WATER VOLE IN AZERBAIJAN BASED ON *CYT B* GENE SEQUENCES

2. **Ekaterina A. Diachenko**

Southern Federal University, Rostov-on-Don, Russia

STUDY OF THE STRUCTURE OF GONADOTROPIC AXIS GENES IN MAMMALS WITH DIFFERENT LITTER SIZES

3. **Yana I. Ivashko¹, Dmitry M. Atopkin¹**

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch of the RAS, Vladivostok, Russia

COMPARATIVE ANALYSIS OF THE GENETIC VARIABILITY OF TWO SPECIES OF TREMATODES FROM *CARASSIUS GIBELIO* (BLOCH, 1782) IN THE RUSSIAN FAR EAST

4. **Anna V. Izrail'skaia¹, Yulia V. Tatonova¹, Vladimir V. Besprozvannykh¹**

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch, Russian Academy of Sciences, 100-letiya Street, 159, Vladivostok 690022, Russia

FIRST MOLECULAR DATA FOR TREMATODES OF THE FAMILY PARAMPHISTOMIDAE FISCHÖEDER, 1901 FROM THE RUSSIAN SOUTHERN FAR EAST

5. **Kristina A. Kalinina^{1,2}, Yulia V. Tatonova^{1,2}, Anna V. Izrail'skaia^{1,2}, Mikhail Y. Shchelkanov²**

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch, Russian Academy of Sciences, pr-t 100-letiya Vladivostoka 159a, Vladivostok 690022, Russia;

²G.P. Somov Research Institute of Epidemiology and Microbiology, Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Selskaya St. 1, Vladivostok 690022, Russia

THE ITS2 rDNA AS A SUITABLE MARKER FOR PHYLOGENETIC ANALYSIS OF SUPERFAMILY ECHINOSTOMATOIDEA

6. Yuri Ph. Kartavtsev, Natalia A. Masalkova

A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok 690041, Russia
E-mail: yuri.kartavtsev48@hotmail.com

MITOCHONDRIAL GENOME ANALYSIS OF MUSSEL SPECIES (BIVALVIA, MYTILIDAE)

7. Yuri Ph. Kartavtsev¹, Natalia A. Masalkova¹, Svetlana N. Sharina¹, Konstantin A. Lutaenko¹

¹*National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, 690041 Russia*

STUDY OF MOLECULAR PHYLOGENICS AND GENETIC DIVERGENCE OF MUSSELS (MOLLUSCA, MYTILIDAE) BASED ON THREE NUCLEAR DNA (18S RRNA, 28S RRNA, HISTONE H3) AND ONE mtDNA (CO-I) GENE SEQUENCES

8. Angelina Kolesnikova

Southern Federal University, Rostov-on-Don, Rostov Oblast, 344006, Russia

INTEGRATIVE ANALYSIS OF OMICS BIG DATA AND WEB APPLICATION DEVELOPMENT FOR THE IDENTIFICATION OF DIAGNOSTIC TARGETS

Natalia E. Kovpak¹, Alla G. Oleinik¹, Andrey D. Kukhlevsky¹, Alexander F. Kirillov², Daria N. Kamenskaya¹

¹*A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, 690041 Russia*; ²*Yakut Branch of the Russian Federal Research Institute of Fisheries and Oceanography (YakutskNIRO), Yakutsk, 677018 Russia*

NEW INFORMATION ON THE SMELT IN THE LAPTEV SEA BASIN WITH PHYLOGENETIC CONSIDERATION

9. Anastasia D. Lazareva¹, Yulia V. Tatonova^{1,2}, Mikhail Yu. Shchelkanov¹

¹*G.P. Somov Research Institute of Epidemiology and Microbiology, Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Selskaya St. 1, Vladivostok 690022, Russia*; ²*Federal Scientific Center of East Asia Terrestrial Biodiversity, Far Eastern Branch, Russian Academy of Sciences, 100-letiya Street, 159, Vladivostok, 690022, Russia*

INTRAGENOMIC POLYMORPHISM AS A POSSIBLE MOLECULAR ADAPTATION OF TREMATODE *ISOPARORCHIS* SPP.

10. Yongchao Li¹, Pengxiang Lin¹, Jie Yu¹, Hongtao Nie^{1*}

¹*College of Fisheries and Life Science, Dalian Ocean University, 116023 Dalian, China*

VARIATIONS IN CELLULAR AND HUMORAL IMMUNE PARAMETERS IN *RUDITAPES PHILIPPINARUM* FOLLOWING *VIBRIO ANGUILLARUM* INFECTION

11. Daria S. Pilevich¹, Lidia E. Yalkovskaya¹, Kamil Z. Omarov², Mahomed M. Chunkov², Leyla V.K. Nadirli³, Aleksandr V. Borodin¹

¹Institute of Plant and Animal Ecology, Ural Branch, Russian Academy of Sciences, 620144 Yekaterinburg, Russia; ²Precaspian Institute of Biological Resources, Dagestan Federal Research Center, Russian Academy of Sciences, 367000, Makhachkala, Russia; ³Institute of Zoology of the Ministry of Science and Education of the Republic of Azerbaijan, AZ1004, Baku, Azerbaijan

NEW DATA ON GENETIC DIVERSITY OF THE URAL FIELD MOUSE (*SYLVAEMUS URALENSIS* P., 1881) IN THE NORTHERN PART OF THE EASTERN CAUCASUS

12. Alina Porotnikova

Southern Federal University, Rostov-on-Don, Rostov Oblast, 344006, Russia

AUTOMATING GENE ENRICHMENT ANALYSIS FOR ECOLOGICALLY RELEVANT BIOLOGICAL PROCESSES WITH A REST API

13. Alexander D. Redin¹, Yuri Ph. Kartavtsev¹

¹A.V. Zhirmunsky Institute of Marine Biology, 690041 Vladivostok, Russia

MOLECULAR SYSTEMATICS AND EVOLUTIONARY GENETICS OF FLATFISH (OSTEICTHIES: CARANGIFORMES: PLEURONECTOIDEI) IN THE FAR EASTERN SEAS OF RUSSIA

14. Irina N. Sheremetyeva¹, Anastasia A. Popova¹

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Vladivostok, 690022, Russia

GENETIC VARIABILITY AND POPULATION GENETIC STRUCTURE OF *TAKYDROMUS WOLTERI* AND *TAKYDROMUS AMURENSIS*

15. Anastasia Stepanova¹, Irina Kartavtseva¹, Aleksander Pozdnyakov², Irina Sheremetyeva¹, Marina Pavlenko¹

¹Federal Scientific Center of the East Asia Terrestrial Biodiversity of the FEB RAS, 690022 Vladivostok, Russia; ²Institute of Animal Taxonomy and Ecology, Siberian Branch of the Russian Academy of Sciences, 630091 Novosibirsk, Russia

MORPHOTYPICAL DIFFERENCES IN THE STRUCTURE OF THE THIRD UPPER MOLARS FOUND FOR THE FIRST TIME IN TWO CHROMOSOMAL RACES OF *ALEXANDROMYS EVORONENSIS* (ARVICOLINAE, RODENTIA)

16. Valeriia V. Tupchii¹, Sergei V. Turanov¹

¹A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, 690041 Vladivostok, Russia

COMPARATIVE ANALYSIS OF *ALECTRIAS CIRRATUS* (LINDBERG, 1938) (PERCIFORMES: STICHAEIDAE) BASED ON THE MITOCHONDRIAL *COXI* GENE FROM PETER THE GREAT GULF (RUSSIA) AND THE SOUTHEASTERN COAST OF HOKKAIDO ISLAND (JAPAN)

17. Alena Yakhnenko¹, Yuriy Bukin¹, Evgeniya Bondar², Sergei Kirilchick¹,

Igor Khanaev¹, Valeria Itskovich¹

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POPULATION GENETIC STUDIES OF BAIKAL ENDEMIC SPONGES

18. Lidia E. Yalkovskaya¹, Evgenia A. Markova¹, Kamil Z. Omarov², Muhammad M. Chunkov², Maria A. Krokhaleva¹, Dmitrii N. Khomiak¹, Alexander V. Borodin¹

¹*Institute of Plant and Animal Ecology Ural Branch of RAS, 620144 Ekaterinburg, Russia;* ²*Precaspian Institute of Biological Resources, Dagestan Federal Research Center, Russian Academy of Sciences, 367000 Makhachkala, Russia*

GENETIC DIVERSITY AND PHYLOGENETIC RELATIONSHIPS OF THE DAGESTAN PINE VOLE *MICROTUS (TERRICOLA) DAGHESTANICUS* FROM REPUBLIC OF DAGESTAN, THE NORTH-EASTERN CAUCASUS BASED ON *CYT B* DATA

19. Dana A. Zatoloka¹, Kristina A. Kalinina^{2,3}, Yulia V. Tatonova^{2,3}

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²*Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch, Russian Academy of Sciences, pr-t 100-letiya Vladivostoka 159a, Vladivostok 690022, Russia;*

³*G.P. Somov Research Institute of Epidemiology and Microbiology, Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Selskaya St. 1, Vladivostok 690022, Russia*

PHYLOGENETIC STATUS OF *ECHINOCHASMUS* SPP. IN THE SOUTH OF THE RUSSIAN FAR EAST

#. Discussion of Young Scientists Reports and Announce of the Concurs' Presentations (Referee Committee Report 5').

Coffee Break (10')

16-55:17-15. **Chair Person – Prof. Yuri Kartavtsev**

Yuri. Ph. Kartavtsev. Concluding remarks & VFDG meeting (20').

SARTUDAY, SEPTEMBER 6

- 9-30:12-30. **Trip to Vostok MBS. Excursions at Vladivostok**
- 12-30:13-30. **Dinner**
- 13-30:14-30. **Accommodation at Vostok MBS**
- 14-30:15-30. **Excursions at Vostok MBS**
- 15-30:18-30. **Excursions at Vostok Bay Vicinities**
- 18-30:21-30. **Banquet & Party by the Fire**

SUNDAY, SEPTEMBER 7

- 9-30: 9-00. **Breakfast**
- 9-00:19-00. **Back trip to Vladivostok. Free day at Vladivostok City**
- 13-00:23-00. **Departures**