



Conference programme

May 13 – 17, 2019

Saint Petersburg, Russia



**Use of molecular-genetic and morphological methods to study the taxonomy, phylogeny, biogeography, and ecology of *Eurytemora* species**

***Monday, May 13***

The day of arrival

Welcome party

***Tuesday, May 14***

10.00-11.00 Registration

11.00-11.20 Opening ceremony

Opening speech of the Director of ZIN RAS S. Ju. Sinev

**Session I: Phylogeny**

**Session chairs: Carol Eunmi Lee, Victor Alekseev**

11.20-12.00 Carol Eunmi Lee. “Species” Concepts in the *Eurytemora affinis* Species Complex

12.00 -12.20 Coffee break

12.20-13.00 Vjacheslav Ivanenko, Korzhavina OA, Nikinin MA. Integrative taxonomy and phylogeny of copepods.

13.00-13.40 Natalia I. Abramson. On the new approaches and possibilities of molecular methods. The impact of these new methods on research in the field of phylogeny, ecology and cryptic speciation.

13.40-14.40 Lunch

14.40–15.30 Tour of the Zoological Museum

15.30 – 15.50 Natalia Sukhikh, Carol Eunmi Lee, Ekaterina Abramova, Vincent Castric, Elena Fefilova, Sami Souissi, Victor Alekseev. A comparative analysis of genetic differentiation of *Eurytemora* species using CO1, ITS and 18SrRNA genes with an emphasis on *E.affinis* species complex.

15.50-16.10 Imran Parvez, Md. Ashraful Alam. Phylogenetic relationships of cyprinid fishes (Cyprinidae) inferred from morphological traits and mitochondrial gene cytochrome b in Bangladesh

16.10-16.30 Coffee break

Session 2: Biogeography

Session chairs: Jiang-Shiou Hwang, Elena Kochanova

16.30-17.10 Victor R. Alekseev. Cosmopolite species versus cryptic species two paradigms in copepod biogeography in molecular-genetic epoch and the future of morphological taxonomy.

17.10-17.30 Elena Kochanova, Natalia Sukhikh, Victor Alekseev. Phylogeography of the freshwater copepods: two ways of distribution in the European area.

17.30-17.50 Ekaterina Abramova, Natalia Sukhikh, Elena Fefilova, Aleksandr Novikov, Waldemar Schneider and Paul Overduin. Distribution of *Eurytemora* species within the Arctic region.

17.50 – 18.30 **Poster session**

Session chairs: Ekaterina Abramova, Jonna Engström-Öst

1. Victor Alekseev, Olga Chaban, Ksenia Kaskova. Use of integumental pore analyze for sibling species separation in the genus *Eurytemora*.

2. Evgeny Barabanshchikov. Distribution, dynamics of abundance and biomass of species of the genus *Eurytemora* in water bodies of Primorye Territory

3. Anna Demchuk, N. Sukhikh, S. Golubkov. The role of *Eurytemora* species in feeding of coastal fish species in the Gulf of Finland (the Baltic Sea).

4. Elena G. Krupa. The ecological preferences of *Eurytemora affinis* (Poppe, 1880) in the Kazakhstan's water bodies (central Asia)

5. Valentina I. Lazareva. The distribution of the copepod *Eurytemora caspica* Sukhikh et Alekseev, 2013 (Crustacea: Calanoida) in the reservoirs of the Volga river and Don river basins

6. Nataliya Polyakova, Aleksey Starkov. *Eurytemora sp.* in the rock pools of the White Sea islands

7. Li-Chun Tseng, Yan-Guo Wang, Guang-shan Lian, Jiang-Shiou Hwang. A multi-year investigation of the Temoridae (Crustacea: Copepoda) assemblage succession with the interplay waters in the northern South China Sea

8. Anna Semenova. Seasonal and interannual dynamics of *Eurytemora affinis* (Poppe, 1880) as key species in Vistula Lagoon of the Baltic Sea

18.30-19.00 Discussion of the day

**Wednesday, May 15**

Session 3: Taxonomy

Session chairs: Natalia Sukhikh, Łukasz Sługocki,

10.00- 10.40 Natalia Sukhikh, Victor R. Alekseev. On morphological peculiarities and species distribution in the *Eurytemora affinis* species complex

10.40-11.20 Dmitry Lajus, Victor Alekseev, Natalia Sukhikh. Random phenotypic variation in *Eurytemora* species and other crustaceans.

11.20- 11.40 Coffee break

11.40-12.00 Elena Fefilova, Natalia Sukhikh, Ekaterina Abramova, Ilya Velegzhaninov. About systematic of Palaearctic *Eurytemora* (Calanoida, Copepoda) on base of their morphological analysis.

12.00-12.20 Łukasz Sługocki, Robert Czerniawski. Variability of mandible shape in freshwater glacial relict *Eurytemora lacustris*.

12.20-12.40 Vezhnavets Vasil, Anastasiya Litvinova. The genus *Eurytemora* in the waterbodies of Belarus.

12.40-13.00 Denis Zavarzin, Natalia Sukhikh and Victor Alekseev. Some Aspects of Ecology of *Eurytemora cf. affinis* from Sakhalin, Russia, in comparison with Hokkaido, Japan

13.00-14.00 Lunch

Session 4: Ecology

Session chairs: Gesche Winkler, Dmitry Lajus

14.00-14.40 Gesche Winkler, Manuelle Beaudry-Sylvestre and David Ouellet. Differential ecological niches and biological traits of co-occurring sibling species of the *Eurytemora affinis* complex in an important fish nursery zone of the St. Lawrence estuary, Canada

14.40-15.20 Petr P. Strelkov, Skazina M., Gagarina A., Dzhelali P. , Ivanova A. , Kireeva M. , Genelt-Yanovsky E. , Malavenda S. , Polyakova N., Masharsky A., Shunatova N. Genetic consequences of landlocking for marine invertebrates and fishes from marine lake.

15.20-15.40 Inta Dimante-Deimantovica, Solvita Strake, Astra Labuce. Calanoid copepod *Eurytemora affinis* (Poppe, 1880) in the Gulf of Riga, Baltic Sea – some aspects of behavior and ecology

15.40-16.00 Alexander Timpe, Bart De Stasio. Comparison of an Electron Transport System (ETS) enzyme-mediated reduction assay and respiration rate of the invasive copepod *Eurytemora carolleeae* in Green Bay, WI, USA

16.00-16.20 Coffee break

16.20-16.40 Astra Labuce, Anda Ikauniece, Solvita Strake<sup>1</sup>, Anissa Souissi. Survey of presence of non-indigenous *Eurytemora carolleeae* in the Gulf of Riga (Baltic Sea) five years after its first discovery

16.40-17.00 Nikolaos V. Schizas, Camille Amaro Berrocal, Govind Nadathur. Biodiversity of deep-sea zooplankton off the southwest coast of Puerto Rico

17.00-17.20 Jonna Engström-Öst. *Eurytemora affinis* in the western Gulf of Finland – responses to environmental change.

17.20-17.40 Cabrol J., Tremblay R., Winkler Gesche. Niche separation in the cryptic species complex *Eurytemora affinis*: eco-physiological response in an “in-situ” reciprocal transplant experiment

17.40-18.10 Discussion of the day

**18.30 Festive dinner**

***Thursday, May 16***

Trip by boat to Peterhof Museum

***Friday, May 17***

10.00- 13.30 Natalia Abramson, Evgeniy Genelt-Yanovsky, Semyon Bodrov, Olga Bondareva. Molecular-genetic master-class on *Eurytemora* species in «Taxon» Research Resource Center of ZIN RAS.

13.30-15.00 Lunch and transfer to the main building of ZIN RAS

15.00-18.30 Victor Alekseev, Elena Fefilova, Elena Abramova, Natalia Sukhikh. Taxonomic training on *Eurytemora* species.

18.30-18.50 Discussion of the day and Closing ceremony