

Nemys online meeting



Zoom
28 July 2021

Report

Attendants:

Editors: Tania Nara Bezerra, Zeng Zhao, Ursula Eisendle, Oleksandr Holovachov, Nic Smol, Vadim Mokievsky, Jyotsna Sharma

Data Management Team DMT: Leen Vandepitte, Stefanie Dekeyze

Excused: Ann Vanreusel, Daniel Leduc, Virág Venekey, Bart Vanhoorne

Absent: Reyes Peña Santiago, Alexei Tchesunov, Mike Hodda

Three years passed after the second NEMYS Editors Workshop in September 2018 and after that, the group did not have the opportunity of meeting to discuss the progress of the designated tasks nor any of the new issues which meanwhile arose. A small group met during the last Meiofauna conference in Évora, to discuss the evolution of the taxonomical manuscript but apart from this there was not another meeting.

Following the suggestion of Daniel Leduc we set an online meeting to talk about some topics. The meeting was intended to be short but due to the long agenda it lasted more than 2 hours. It was a very productive meeting with interesting discussion and valuable contributions. The meeting was recorded and afterwards the file was sent to all editors.

The objectives of this meeting were: (i) to solve some logistic issues: such as citations, which should include not just the active editors and may not involve work of other editors than those of NEMYS (ii) to clarify taxonomic questions on the use of different classifications and updating the classification on higher taxonomical levels (iii) to redistribute groups previously edited by

editors who are no longer part of Nemys (iiii) to find a faster way of completing traits and the lack of original descriptions for some species.

This report includes:

- I. Need of correct citation for D. Gibson's work
- II. Discussion on how to solve the problem of omitting previous and temporary contributors in Nemys citation
- III. Clarification on needed taxa information changes
- IV. Editor rights
- V. Classification of higher taxa, changes to be implemented
- VI. Destination to the taxa previously edited by Dmitry Miljutin and Wilfrida Decraemer
- VII. Request on functional group and body size information
- VIII. Original descriptions gaps
- IX. Completion of previous tasks agreement
- X. Varia

I. Need of correct citation for D. Gibson's work

The correct attribution to David Gibson's and other editors' work is needed. DMT will see how to fix this. The work of Gibson shall not be attributed to Nemys anymore.

II. Discussion on how to solve the problem of omitting previous and temporary contributors

Previous editors, as well temporary editors and thematic editors are never acknowledge, when using the general citation of Nemys. This rises situations where an editor uploaded a species and was the only person working on it but was not cited.

A solution for this issue is to have citation that would be more general and all-inclusive. In this way, we acknowledge the work of all editors: current editors, previous editors, thematic editors and temporary editors.

Here is a suggestion sent by Leen:

Nemys eds. (2021). Nemys: World Database of Nematodes. Accessed at <http://nemys.ugent.be> on [YYYY-MM-DD]. doi:10.14284/366

III. Clarification on needed taxa information changes

Every level of classification within the nematodes is responsibility of Nemys editors. According to the WoRMS SC, major changes are happening on the higher classification level and we do not have to hurry to implement them. WoRMS attempt to reflect a practical and stable classification (Horton et al, 2017). It is advised to wait for the general acceptance within the community. This would avoid constant changes, in case of counter publications.

In Nemys we follow the agreement made during the first workshop and revised during the second one. Since the begin we decided that all taxonomic editors have same edit rights for the whole group. Meaning that although we are responsible for a determined group we can add or change things on other groups. In case these changes are substantial, it's advisable to contact the responsible to decide what is the best solution.

There are different classification for some nematodes and different people using different classification. This is not an issue as long as it is documented. All changes need to be backed up with a source but the choice of changing something, or not, is up to the editors. Conclusion: Consult the responsible for the group if you feel you need to do an important alteration. If you have not done like this and the responsible don't agree, no problem. He/she can always contact you via email.

Always link your changes to a document and it's advisable to add a note, explaining why the change was needed.

IV. Editor rights

Do we have editing rights for animal parasitic nematodes?

Yes, we do have edit rights for the whole group. The same for the editors working on parasitic nematodes.

V. Classification of higher taxa, changes to be implemented

Classification of higher taxa, which changes should be implemented based on updates published in the literature?

Daniel Leduc, sent some suggested changes to higher classification of Nematoda in Nemys:

1) Family Rhaptothyreidae should be moved to within the order Enoplida instead of being placed in separate order Rhaptothyreida. Placement of Rhaptothyreidae within Enoplida, however, remains unclear, so should be considered incertae sedis within the order Enoplida? (Leduc et al. 2018a)

2) The genus Syringolaimus (Enoplida) was recently moved from the Ironidae to the Rhabdolaimidae based on molecular evidence corroborated by morphological characters (Holovachov 2019)

3) The terrestrial genera Trsichistoma and Tripylina (which together comprise the family Trischistomatidae Andr ssy 2007) were previously classified within the order Triplonchida Zullini 2006. Analyses of morphological and SSU molecular sequence data indicate that this family should be classified with the Trefusiina, order Enoplida (van Megen et al 2009, Bik et al 2010, Leduc et al 2020). Shi & Xu (2017) recently proposed moving Rhabdocoma to the Halanonchinae based on the presence of only one ovary in both Rhabdocoma and Halanonchus, and based on the result of phylogenetic analyses of SSU sequences. For review of entire Trefusiina, see Leduc et al. 2020

4) The family Benthimermithidae should be moved to within the order Plectida instead of being classified within its own separate order, based on SSU evidence (Leduc & Zhao 2019)

5) The order Microlaimida was recently erected by Leduc et al 2018b to accommodate the Microlaimoidea based on molecular and morphological evidence.

It was discussed and **the four first suggestions were approved by all presents. The last suggestion was refused, based on the 18S unresolved clade, which leads to a weak interpretation.** Accepting Microlaimida we would need to create other orders for groups in the same situation. The conclusion was that based on the evidences, it's too early to take this action.

VI. Destination to the taxa previously edited by Dmitry Miljutin and Wilfrida Decraemer

The taxa were divided among us. There were some suggestions to people who were not present. Next to the name of the absent persons, there is a question mark.

VII. Request on functional group and body size information

Requests from Stefanie: Completing functional group and body size class information for the Nematoda. We have done up to now more than 1000 species but there are still more than 5000 species to be checked.

For the remaining entries, **it was decided to consider all free-living marine nematodes as meiobenthos**. A list of exceptions will be provided and these will be treated manually.

VIII. Original descriptions gaps

DMT will provide a list with all species lacking original description. We will take this as priority.

We have to consider that the list may not represent all species without description, since there are some files linked to some species, which do not correspond to the original description. These we can just find when we need them and eventually find them.

IX. Completion of previous tasks agreement

All of us admitted not have worked for a while, specially, during the last year.

This will be tackled with “action points” stating what needs to be done, a good suggestion from Oleksandr Holovachov. To be implemented from September 2021 on. At every meeting these “action points” will be reported/discussed. Missing descriptions will be treated as high priority.

X. Varia

- Oleksandr Holovachov is resigning from Zootaxa and his position will be open. In case someone wants to apply, contact: Zhi-Qiang Zhang, Chief Editor - <https://unidirectory.auckland.ac.nz/profile/zzha120>

- The meeting was successful we came up with important decisions/suggestions. It was a very long meeting since the last time the group was together was in the workshop of 2018 and a small group during the meiofauna conference in Evora.
- Vadim Mokievsky suggested we should have more of these meetings. All participants agreed with his suggestion.