
COST Action CA22158

MiCropBiomes: “Exploiting Plant-Microbiomes Networks and Synthetic Communities to improve Crops Fitness”

Minutes of the 1st Glossary Online Meeting of WG3

Online, 26th September 2024 - 14:00-15:00

Minutes of the WG3 Meeting written by J. Medo and R. Artimová

Attending:

Juraj MEDO	SK	MC Member
Renata ARTIMOVA	SK	WG3 Vice Leader
Izzah SHAHID	ES	WG3 participant
Joanna Pulawska	PL	MC Member
Claire Prignet-Combaret	FR	WG4 Leader
Duška Delić	BA	MC Member
Natalija Atanasova Pancevska	MK	WG3 participant

On September 26th, seven members of the MiCropBiomes COST Action from six countries met online via Zoom for the first Glossary WG3 online meeting.

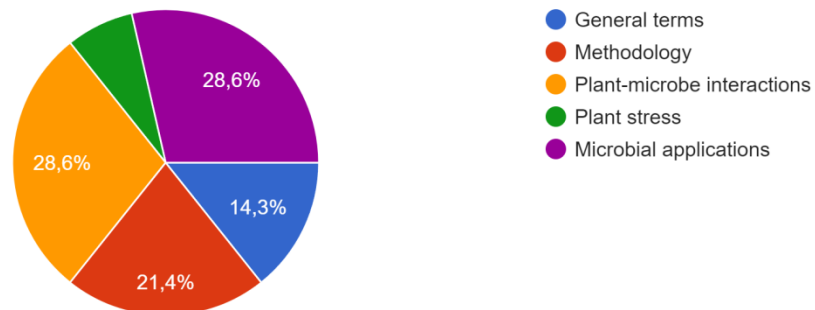
The leader of the terminology initiative presented the work done so far. More than 150 terms were collected using an online questionnaire and the total collection now stands at 620 terms. Some terms seem to be too general and probably do not need to be explained. A new category "General" has also been proposed for a more targeted distribution of terms. There are currently five categories: General, Interactions, Methods, Stress, Applications. Definitions have been generated for all terms using AI - this step will improve the orientation of the terms, it is not intended as a final output. Participants were introduced to the current version of the shared spreadsheet. Due to the large number of terms and their broad scope, it is necessary to divide them and assign them to a group of experts.

A survey of those involved in the terminology initiative was conducted with four questions. This was also sent out to participants who are on the terminology initiative mailing list. 14 participants responded. The survey showed a fairly clear direction and willingness of participants to contribute in the sub-objectives.

Results of survey:

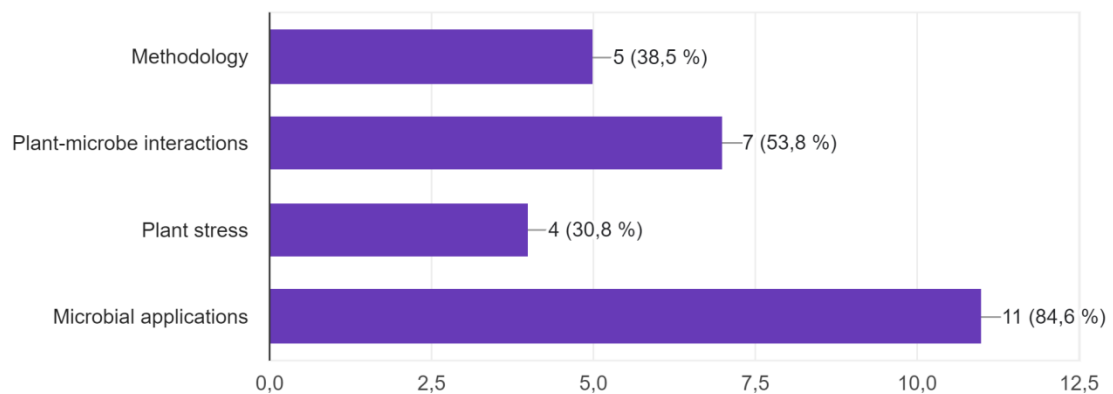
In which area of terminology would you most like to contribute and work? Experience is expected...

14 odpovedí



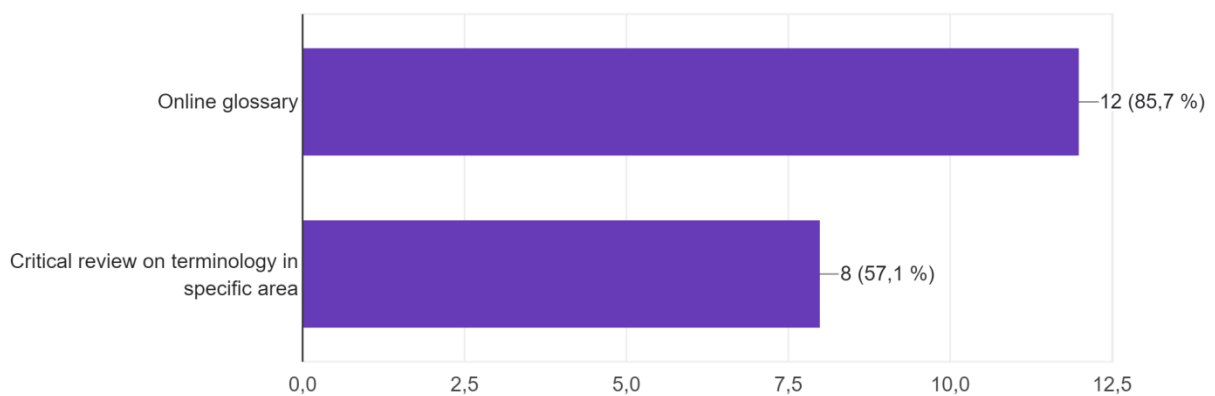
In which area of terminology do you have experience and are you willing to contribute? (you can check more than one)

13 odpovedí



How would you like to contribute?

14 odpovedí



Suggest a specific area where terminology needs to be updated. (e. g. suggest title of review):

plant beneficial functions

legislation and synchronization of use of terminologies, commercial tagging of products with correct term, and use of accurate terms in manuscripts while evaluating the results and title of the manuscript.

Methodology of microbial community analysis

Clarifying concepts: Terminological challenges in plant crop microbiome studies

Plant Growth Promoting Microorganisms

Methodology; Microbial applications

using of bacteriophages as a biopesticides

Misuse of the term metagenomics for metabarcoding

Conclusions from survey:

In terms of interest, 3 directions are taking shape with which to start the work (interactions, methods, applications).

In terms of participants' experience, the majority are experienced in applications and about half in interactions.

Most participants want to work on the online dictionary as a priority. Preparation of a review article is possible, there seems to be enough contributors.

In terms of clarity of future ideas for an article, the possibility of preparing a review paper addressing metagenomic and metabarcoding analysis of plant microbial communities (although a smaller but more concentrated collective) is emerging. A second review would address legislation in the application of microorganisms (a broad collective and urgent need from users). Interactions would probably be addressed initially in the form of an online dictionary.

Suggestions for a methodological approach were made in the discussion during online meeting

- All definitions must be based on scientific literature, which can be extremely difficult to search.
- It is possible to limit the search to a certain period, for example the last 20 years.
- It is appropriate to use meta-analysis to identify the most commonly used/current terms.
- The terms that are mentioned in the legislation should be summarised and their definitions used in different countries/organisations of the EU, USA, UN, WHO + scientific literature should be compared.

At the next meeting:

- Decide/agree on the categorisation of terms
- Need to adopt rules for group work (how and where work will be shared).
- Divide competencies and responsibilities and set milestones.

In the meantime:

Establish a link with COST CA22142 Root-Benefit