Release LTP_01_2022

This release is available online at https://imedea.uib-csic.es/mmg/ltp/

The current All-Species Living Tree Project release (LTP_01_2022) contains a set of 18,356 type strain sequences and reflects the nomenclature and taxonomic changes accepted from October 2021 to January 2022 (IJSEM volume 71, issue 11 to volume 72, issue 1).

Since October 2021 (LTP_09_2021 release), a total of 393 new species, 80 new genera, 9 new families and 3 new orders, have been validly published under The International Code of Nomenclature of Prokaryotes (ICNP) (Table 1. Summary of release LTP_01_2022).

The 16S rRNA gene sequences belonging to the new species, were aligned (pt-server based on 6,925 high quality sequences) and manually curated, quality checked and added to the tree_ltp_all (release LTP_01_2022) using the Maximum Parsimony tool (positional filters 'termini_5_3' and 'gap95_q0_to_q5' used in combination) from the ARB software package (Table 2. List of new species).

There have been several taxonomic reclassifications and changes in taxonomic status proposed and accepted by the list editors of the IJSEM. All such changes were manually checked and recorded in the field tax_ltp and tax_status_ltp (Table 3. Taxonomic reclassification).

Taxa names’ accuracy was crosschecked with the nomenclature list available on the LPSN website (https://lpsn.dsmz.de/). In case of discrepancy between the LTP and LPSN taxonomies (e.g. when the LTP taxonomy recorded synonyms at the species level) then the field sp_name_LPSN and tax_LPSN were written with the correct species name and taxonomic hierarchy, respectively (Table 4. Fields description).

To update previous LTP releases (e.g. LTP_04_2021 and LTP_09_2021) with the current LTP taxonomy, please follow the short ARB guide published at https://imedea.uib-csic.es/mmg/ltp/.

If you have any questions or doubts, please do not hesitate contacting with the LTP team at ltp@imedea.uib-csic.es

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