

# Republication of "New Species Announcement", a new format to prompt the description of new human microbial species

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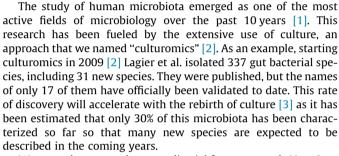
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### Editorial

## Republication of «New Species Announcement», a new format to prompt the description of new human microbial species

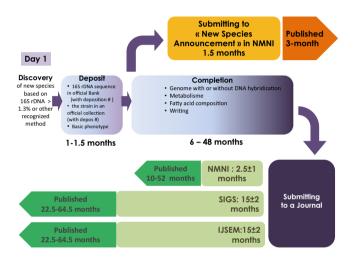


We recently proposed a new editorial format named «New Species Announcement» to be shared by New Microbes and New Infections journal (NMNI) [4]. We and here copy this proposal to invite authors of Human Microbiome Journal (HUMIC). The present editorial parallels therefore the one previously published [4].

We now are facing the problem of rapidly communicating the scientific community this tremendous quantity of new species. The current process of description and validation of new species can take from 2 to 5 years before scientists are aware that a new species has been discovered! And that the type strain has been made available for further researches (Fig. 1). This situation is not scientifically fair as most of the knowledge about microbes and their roles are derived from isolate-based observations and experiments. Moreover, this situation is at the exact antipodes of the current movement of open data in sciences.

In order to cope with the delay between the scientific discovery and the officialization of the proposed bacterial names, New Microbes New Infections now proposes an intermediate format between open data, in which all raw information would be made available, and the complete description of the new species. In our experience it takes in average 2.5 months to be released in New Microbes and New Infections, and it takes 15 months to be released in IJSEM and SIGS (see Supplementary reference list). Such an intermediate article format already exists for genome sequences under the form of the Genome Announcement Journal. The new format that we propose aims at providing the scientific community with essential data on a putative new species, including main phenotypic characteristics and degree of 16S rRNA gene sequence identity with their closest phylogenetic relatives. It will make it possible to release this information within the 3 months following

Abbreviations: IJSEM, International Journal of Systematic Evolutionary Microbiology, NMNI, New Microbes and New Infections, SIGS, Standards in Genomic Science.



**Fig. 1.** Current process for publishing a new species. Delays here reported are based on the review of papers listed in "Supplementary reference list". Green, current process; orange, new process by "New Species Announcement" in NMNI. (For interpretation of the references to colour in this figure legend, the reader is referred to the web version of this article.)

the first identification. The 16S rRNA gene sequence GenBank accession number is provided, and the type strain is made available by deposit in an official culture collection. This new format will not prevent microbiologists from further publishing a complete description of any new species.

We believe that this new format will enable researchers in the process of describing new bacterial species to rapidly inform the scientific community of their finding. It may help avoid bacterial name redundancy for a given species.

We name this new format "New Species Announcement" and NMNI, as well as HUMIC, this new online journal, are proud of launching this initiative.

### Appendix A. Supplementary data

Supplementary data associated with this article can be found, in the online version, at http://dx.doi.org/10.1016/j.humic.2016.05. 001.





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