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1	DRAFT - CONFIDENTIAL
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3	Emendation of Rules 5b, 8, 15, and 22 of the International Code of Nomenclature
4	of Prokaryotes to include the rank of phylum
5	
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21	
22	List of abbreviations: ICSP, International Committee on Systematics of Prokaryotes;
23	ICNP, International Code of Nomenclature of Prokaryotes; IJSEM, International
24	Journal of Systematic and Evolutionary Microbiology
25	
26	
27	Abstract
28	
29	Following the International Committee on Systematics of Prokaryotes online
30	discussion and vote on proposals to include the rank of phylum in the rules of the
31	International Code of Nomenclature of Prokaryotes, we here announce the results of
32	the ballot. We also present draft versions of the emended Rules 5b, 8, 15, and 22

based on the outcome of the ballot, to be included in the proposal for the	
preparation of a new revision of the International Code of Nomenclature of	nenclature of
Prokaryotes.	
The rules of the current version of the International Code of Nomenclature of	
Prokaryotes (ICNP) (2008 Revision) [1] do not include the rank of phylum. Follow	ing
the publication of proposals to include the rank of phylum in the rules of the ICN	Р
[2,3], the members of the International Committee on Systematics of Prokaryote	es.
(ICSP) have voted on these proposals in February 2021. The ballot was preceded	by a
public discussion, conducted by email correspondence that started in November	
2020 [4]. As a result of the discussions, in which the issue of whether the	
nomenclatural type of a phylum should be one of the contained classes or one of	f the
contained genera was raised (as previously [5]), an additional question (Vote 2	
below) was added. Twenty-one votes from ICSP delegates were received by the	
tellers, Aharon Oren and David R. Arahal. The outcome of the ballot is as detailed	b
below.	
Vote 1 - Should the rank of phylum be included under the rules of the ICNP?	
The proposal was accepted by 19 delegates and rejected by two.	
Vote 2 - If Vote 1 is in favour of including the rank of phylum under the rules of the	he
ICNP, should the nomenclatural type of a phylum be one of the contained classes	s or
one of the contained genera?	
Seven delegates voted in favour of a class as the nomenclatural type of the	ne
phylum, 10 were in favour of a genus, there were three abstentions, and	one
blank vote was returned.	
Vote 3 – If Vote 1 is in favour of including the rank of phylum under the rules of t	the
ICNP, should the suffix –aeota or –ota be adopted for phyla?	
Three delegates voted in favour of the ending –aeota, 13 were in favour of	of -
ota, there were four abstentions, and one blank vote was returned.	

65		
66	Vote 4 - If Vote 1 is in favour of including the rank of phylum under the rules of the	
67	ICNP, should the ending (-aeota or -ota) be applied consistently or should the	
68	Judicial Commission be allowed to make exceptions for the nomenclature of some	
69	phyla?	
70	Seven delegates voted that the ending must be applied consistently, 13 voted	
71	that the Judicial Commission be allowed to make exceptions, and one blank	
72	vote was returned.	
73		
74	The proceedings of the open discussion that preceded the ballot are posted on the	
75	website of the ICSP at https://www.the-icsp.org/.	
76		
77	Based on these votes, the following emendations of the rules of the ICNP are	
78	proposed. Changes are indicated in boldface type.	
79		
80	RULE 5B	
81	The taxonomic categories above and including species which are covered by these	
82	Rules are given below in ascending taxonomic rank. Those in the left-hand column	
83	should be recognized where pertinent; those in the right-hand column are optional.	
84	The Latin equivalents are given in parentheses.	
85		
86	Species (Species)	
87	Subgenus (Subgenus)	
88	Genus (Genus)	
89	Subtribe (Subtribus)	
90	Tribe ( <i>Tribus</i> )	
91	Subfamily (Subfamilia)	
92	Family (Familia)	
93	Suborder (Subordo)	
94	Order (Ordo)	
95	Subclass (Subclassis)	
96	Class (Classis)	

## Phylum (Phylum)

RULE 8

The name of each taxon (covered by the Code) above the rank of order is a Latin or latinized word. The name of a class is in the neuter gender, the plural number and written with an initial capital letter. The name is formed by the addition of the suffix -ia to the stem of the name of the type genus of the type order of the class. The name of a subclass is in the feminine gender, the plural number and written with an initial capital letter. The name is formed by the addition of the suffix -idae to the stem of the name of the type genus of the type order of the subclass. The name of a phylum is in the neuter gender, the plural number and written with an initial capital letter. The name is formed by the addition of the suffix -ota to the stem of the name of the designated type genus.

111 RULE 15

A taxon consists of one or more elements. For each named taxon of the various taxonomic categories (listed below), there shall be designated a nomenclatural type. The nomenclatural type, referred to in this Code as 'type', is that element of the taxon with which the name is permanently associated, whether as a correct name or as a synonym. The nomenclatural type is not necessarily the most typical or representative element of the taxon. The types are dealt with in Rules 16–22. Types of the various taxonomic categories can be summarized as follows:

Table 2. Taxonomic categories

Taxonomic category	Туре
Subspecies	Designated strain; in special cases the place of the type strain
Species	may be taken by a description, preserved specimen, or an
	illustration
Subgenus	Designated species

Genus	
Subtribe	
Tribe	
Subfamily	Genus on whose name the name of the higher taxon is based
Family	
Suborder	
Order	
Subclass	One of the contained orders
Class	
Phylum	One of the contained genera

## THE FIRST PARAGRAPH OF RULE 22

The type of a phylum is one of the contained genera. If there is only one genus, this becomes the type. If there are two or more genera, the type shall be designated by the author at the time of the proposal of the phylum name, although authors are encouraged to respect priority by considering which genus was described first. The type of a class or subclass is one of the contained orders, and if there is only one order this becomes the type. If there are two or more orders the type shall be designated by the author at the time of the proposal of the name.

Based on these emendations and the votes by the ICSP, the List Editors of the IJSEM will prepare a list of names of phyla that can be validated, formed from the name of a genus proposed as the nomenclatural type and the ending -ota.

As announced earlier [4], the Editorial Board of the ICNP will prepare proposals for emendation of the General Considerations, Principles, Rules, Recommendations and Appendices of the entire ICNP document, in order to support the preparation of a new revision. The emendations outlined above will be included in the draft of the revision that will be published for open discussion prior to balloting among the full and co-opted members of the ICSP [4].

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154	
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156	
157	
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159	
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