

Register list for 11 new names in Dormibacterota including Aeolococcaceae fam. nov.

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Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Order <i>Aeolococcales</i>	[Ae.o.lo.coc'cales] N.L. masc. n. <i>Aeolococcus</i> , after the Greek god Aeolus, referring to extremely windy conditions of the Antarctic environment; <i>-ales</i> , ending denoting an order; N.L. fem. pl. n. <i>Aeolococcales</i> , the Aeolococcus order	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Dormibacteria</i>	<i>Aeolococcus</i>	seqco.de/i:48789
Family <i>Aeolococcaceae</i>	[Ae.o.lo.coc.ca.ce'ae] N.L. masc. n. <i>Aeolococcus</i> , after the Greek god Aeolus, referring to extremely windy conditions of the Antarctic environment; <i>-aceae</i> , ending denoting a family; N.L. fem. pl. n. <i>Aeolococcaceae</i> , the Aeolococcus family	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Aeolococcales</i>	<i>Aeolococcus</i>	seqco.de/i:48987
Genus <i>Dormibacter</i>	[Dor.mi.bac'ter] L. v. <i>dormio</i> , to sleep; N.L. masc. n. <i>bacter</i> , a rod; N.L. masc. n. <i>Dormibacter</i> , a dormant rod	Type genus of Dormibacterota. Genus defined based on phylogenomics of 38 conserved marker genes and the lack of any named close relative at the time.	<i>Dormibacteraceae</i>	<i>Dormibacter spiritus</i> ^{Ts}	seqco.de/i:39408
Genus <i>Nephthysia</i>	[Neph.thys'ia] Gr. fem. n. <i>Nephthys</i> , ancient Egyptian goddess Nephthys, associated with deserts and darkness; N.L. fem. n. <i>Nephthysia</i> , after ancient Egyptian goddess Nephthys, associated with deserts and darkness, referring to the place of origin.	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Dormibacteraceae</i>	<i>Nephthysia bennettiae</i> ^{Ts}	seqco.de/i:49054
Genus <i>Amunia</i>	[A.mu'ni.a] N.L. fem. n. <i>Amunia</i> , after Amun, ancient Egyptian god of wind and vivifying breath.	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Aeolococcaceae</i>	<i>Amunia macphersoniae</i> ^{Ts}	seqco.de/i:49057

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Aeolococcus</i>	[Ae.o.lo.coc'cus] Gr. masc. n. <i>Aiolos</i> , Greek god, ruler of the winds; Gr. masc. n. <i>kokkos</i> , berry, referring to the coccoid morphology of cells); N.L. masc. n. <i>Aeolococcus</i> , after the Greek god Aeolus, referring to extremely windy conditions of the Antarctic environment	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Aeolococcaceae</i>	<i>Aeolococcus gillhamiae</i> ^{Ts}	seqco.de/i:49050
Species <i>Dormibacter spiritus</i> ^{Ts}	[spi'ri.tus] L. masc. gen. n. <i>spiritus</i> , of air; in reference to the use of atmospheric gases.	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Dormibacter</i>	NCBI Assembly: GCA_003244185.1 ^{Ts}	seqco.de/i:49052
Species <i>Dormibacter inghamiae</i>	[ingh.am'i.ae] N.L. gen. n. <i>inghamiae</i> , in honor of Susan Ingham, a Australian Subantarctic voyager, pioneer of subantarctic research on wildlife	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Dormibacter</i>	NCBI Assembly: GCA_016464725.1 ^{Ts}	seqco.de/i:49053
Species <i>Amunia macphersoniae</i> ^{Ts}	[mac.pher'so.ni.ae] N.L. gen. n. <i>macphersoniae</i> , in honor of Australian Subantarctic voyager and pioneer Hope Macpherson.	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Amunia</i>	NCBI Assembly: GCA_016464795.1 ^{Ts}	seqco.de/i:49058
Species <i>Aeolococcus gillhamiae</i> ^{Ts}	[gill'ham.i.ae] N.L. gen. n. <i>gillhamiae</i> , in honor of Australian Subantarctic voyager and pioneer Mary Gillham.	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Aeolococcus</i>	NCBI Assembly: GCA_003244045.1 ^{Ts}	seqco.de/i:49056
Species <i>Nephtysia bennettiae</i> ^{Ts}	[ben'net.ti.ae] N.L. gen. n. <i>bennettiae</i> , in honor of Australian Subantarctic voyager and pioneer Isobel Bennett	Based on phylogenomic analysis of 120 concatenated single copy proteins. MSA was generated with GTDB-Tk v1.3.0 and tree was reconstructed with RaxML v8.2.12.	<i>Nephtysia</i>	NCBI Assembly: GCA_016464775.1 ^{Ts}	seqco.de/i:49055