

Register list for 42 new names including Binataceae 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
Phylum <i>Methylomirabilota</i>	[Me.thy.lo.mi.ra.bi.lo'ta] N.L. fem. n. <i>Methylomirabilis</i> , type genus of the phylum; <i>-ota</i> , ending to denote a phylum; N.L. neut. pl. n. <i>Methylomirabilota</i> , the <i>Methylomirabilis</i> phylum	The phylum constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The phylum contains the class <i>Methylomirabilia</i> .	<i>Bacteria</i>	<i>Methylomirabilis</i>	seqco.de/i:31944
Class <i>Binatia</i>	[Bi.na'ti.a] N.L. masc. n. <i>Binatus</i> , type genus of the class; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Binatia</i> , the <i>Binatus</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the order <i>Binatales</i> .	<i>Desulfobacterota</i>	<i>Binatus</i>	seqco.de/i:31413
Class <i>Bipolaricaulia</i>	[Bi.po.la.ri.cau'li.a] N.L. masc. n. <i>Bipolaricaulis</i> , type genus of the class; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Bipolaricaulia</i> , the <i>Bipolaricaulis</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the order <i>Bipolaricaulales</i> .	<i>Bipolaricaulota</i>	<i>Bipolaricaulis</i>	seqco.de/i:31922
Class <i>Kapaibacteriia</i>	[Ka.pa.i.bac.te.ri'i.a] N.L. neut. n. <i>Kapaibacterium</i> , type genus of the class; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Kapaibacteriia</i> , the <i>Kapaibacterium</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the order <i>Kapaibacteriales</i> .	<i>Bacteroidota</i>	<i>Kapaibacterium</i>	seqco.de/i:31938
Class <i>Methylomirabilia</i>	[Me.thy.lo.mi.ra.bi'li.a] N.L. fem. n. <i>Methylomirabilis</i> , type genus of the class; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Methylomirabilia</i> , the <i>Methylomirabilis</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the following orders: <i>Methylomirabiales</i> , <i>Candidatus Rokubacteriales</i> .	<i>Methylomirabilota</i>	<i>Methylomirabilis</i>	seqco.de/i:31943

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Class <i>Muiribacteriia</i>	[Mui.ri.bac.te.ri'i.a] N.L. neut. n. <i>Muiribacterium</i> , type genus of the class; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Muiribacteriia</i> , the <i>Muiribacterium</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the order <i>Muiribacteriales</i> .	<i>Muiribacteriota</i>	<i>Muiribacterium</i>	seqco.de/i:31949
Class <i>Cloacimonadia</i>	[Clo.a.ci.mo.na'di.a] N.L. fem. n. <i>Cloacimonas</i> , type genus of the class; N.L. neut. pl. n. <i>Cloacimonadia</i> , the <i>Cloacimonas</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the order <i>Cloacimonadales</i> .	<i>Cloacimonadota</i>	<i>Cloacimonas</i>	seqco.de/i:31336
Class <i>Hydrothermia</i>	[Hy.dro.ther'mi.a] N.L. masc. n. <i>Hydrothermus</i> , type genus of the class; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Hydrothermia</i> , the <i>Hydrothermus</i> class	The class constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The class contains the order <i>Hydrothermales</i> .	<i>Hydrothermota</i>	<i>Hydrothermus</i>	seqco.de/i:31418
Order <i>Binatales</i>	[Bi.na.ta'les] N.L. masc. n. <i>Binatus</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Binatales</i> , the <i>Binatus</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Binataceae</i> .	<i>Binatia</i>	<i>Binatus</i>	seqco.de/i:31412
Order <i>Hydrothermales</i>	[Hy.dro.ther.ma'les] N.L. masc. n. <i>Hydrothermus</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Hydrothermales</i> , the <i>Hydrothermus</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Hydrothermaceae</i> .	<i>Hydrothermia</i>	<i>Hydrothermus</i>	seqco.de/i:31417
Order <i>Bipolaricaulales</i>	[Bi.po.la.ri.cau.la'les] N.L. masc. n. <i>Bipolaricaulis</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Bipolaricaulales</i> , the <i>Bipolaricaulis</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Bipolaricaulaceae</i> .	<i>Bipolaricaulia</i>	<i>Bipolaricaulis</i>	seqco.de/i:31921

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Order <i>Johnevansiales</i>	[John.e.van.si.a'les] N.L. fem. n. <i>Johnevansia</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Johnevansiales</i> , the <i>Johnevansia</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Johnevansiaceae</i> .	<i>Gammaproteobacteria</i>	<i>Johnevansia</i>	seqco.de/i:31933
Order <i>Kapaibacteriales</i>	[Ka.pa.i.bac.te.ri.a'les] N.L. neut. n. <i>Kapaibacterium</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Kapaibacteriales</i> , the <i>Kapaibacterium</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Kapaibacteriaceae</i> .	<i>Kapaibacteriia</i>	<i>Kapaibacterium</i>	seqco.de/i:31937
Order <i>Methylomirabilales</i>	[Me.thy.lo.mi.ra.bi.la'les] N.L. fem. n. <i>Methylomirabilis</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Methylomirabilales</i> , the <i>Methylomirabilis</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Methylomirabilaceae</i> .	<i>Methylomirabilia</i>	<i>Methylomirabilis</i>	seqco.de/i:31942
Order <i>Muiribacteriales</i>	[Mui.ri.bac.te.ri.a'les] N.L. neut. n. <i>Muiribacterium</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Muiribacteriales</i> , the <i>Muiribacterium</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Muiribacteriaceae</i> .	<i>Muiribacteriia</i>	<i>Muiribacterium</i>	seqco.de/i:31948
Order <i>Cloacimonadales</i>	[Clo.a.ci.mo.na.da'les] N.L. fem. n. <i>Cloacimonas</i> , type genus of the order; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Cloacimonadales</i> , the <i>Cloacimonas</i> order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Cloacimonadaceae</i> .	<i>Cloacimonadia</i>	<i>Cloacimonas</i>	seqco.de/i:31335

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Order <i>Puniceispirillales</i>	[Pu.ni.ce.i.spi.ril.la'les] N.L. neut. n. <i>Puniceispirillum</i> , type genus of the order; -ales, ending to denote an order; N.L. fem. pl. n. <i>Puniceispirillales</i> , the Puniceispirillum order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Puniceispirillaceae</i> .	<i>Alphaproteobacteria</i>	<i>Puniceispirillum</i>	seqco.de/i:31341
Order <i>Saccharimonadales</i>	[Sac.cha.ri.mo.na.da'les] N.L. fem. n. <i>Saccharimonas</i> , type genus of the order; -ales, ending to denote an order; N.L. fem. pl. n. <i>Saccharimonadales</i> , the Saccharimonas order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Saccharimonadaceae</i> .	<i>Saccharimonadia</i>	<i>Saccharimonas</i>	seqco.de/i:31966
Order <i>Tenderiales</i>	[Ten.de.ri.a'les] N.L. fem. n. <i>Tenderia</i> , type genus of the order; -ales, ending to denote an order; N.L. fem. pl. n. <i>Tenderiales</i> , the Tenderia order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Tenderiaceae</i> .	<i>Gammaproteobacteria</i>	<i>Tenderia</i>	seqco.de/i:23553
Order <i>Thermobaculales</i>	[Ther.mo.ba.cu.la'les] N.L. neut. n. <i>Thermobaculum</i> , type genus of the order; -ales, ending to denote an order; N.L. fem. pl. n. <i>Thermobaculales</i> , the Thermobaculum order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Thermobaculaceae</i> .	<i>Chloroflexia</i>	<i>Thermobaculum</i>	seqco.de/i:31971
Order <i>Promineifilales</i>	[Pro.mi.ne.i.fi.la'les] N.L. neut. n. <i>Promineifilum</i> , type genus of the order; -ales, ending to denote an order; N.L. fem. pl. n. <i>Promineifilales</i> , the Promineifilum order	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Promineifilaceae</i> .	<i>Anaerolineae</i>	<i>Promineifilum</i>	seqco.de/i:31960
Family <i>Binataceae</i>	[Bi.na.ta'ce.ae] N.L. masc. n. <i>Binatus</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Binataceae</i> , the Binatus family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Binatus</i> .	<i>Binatales</i>	<i>Binatus</i>	seqco.de/i:31411

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Family <i>Hydrothermaceae</i>	[Hy.dro.ther.ma.ce'ae] N.L. masc. n. <i>Hydrothermus</i> , type genus of the family; - <i>aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Hydrothermaceae</i> , the <i>Hydrothermus</i> family	The order constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The order contains the family <i>Hydrothermaceae</i> .	<i>Hydrothermales</i>	<i>Hydrothermus</i>	seqco.de/i:31416
Family <i>Azobacteroidaceae</i>	[A.zo.bac.te.ro.i.da.ce'ae] N.L. masc. n. <i>Azobacteroides</i> , type genus of the family; - <i>aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Azobacteroidaceae</i> , the <i>Azobacteroides</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the following genera: <i>Azobacteroides</i> , and <i>Candidatus Symbiothrix</i> .	<i>Bacteroidales</i>	<i>Azobacteroides</i>	seqco.de/i:31916
Family <i>Bipolaricaulaceae</i>	[Bi.po.la.ri.cau.la.ce'ae] N.L. masc. n. <i>Bipolaricaulis</i> , type genus of the family; - <i>aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Bipolaricaulaceae</i> , the <i>Bipolaricaulis</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Bipolaricaulis</i> .	<i>Bipolaricaulales</i>	<i>Bipolaricaulis</i>	seqco.de/i:31920
Family <i>Hepatobacteraceae</i>	[He.pa.to.bac.te.ra.ce'ae] N.L. masc. n. <i>Hepatobacter</i> , type genus of the family; - <i>aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Hepatobacteraceae</i> , the <i>Hepatobacter</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Hepatobacter</i> .	<i>Holosporales</i>	<i>Hepatobacter</i>	seqco.de/i:31928
Family <i>Hepatoplasmataceae</i>	[He.pa.to.plas.ma.ta.ce'ae] N.L. neut. n. <i>Hepatoplasma</i> , type genus of the family; - <i>aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Hepatoplasmataceae</i> , the <i>Hepatoplasma</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Hepatoplasma</i> .	<i>Mycoplasmatales</i>	<i>Hepatoplasma</i>	seqco.de/i:31930

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Family <i>Johnevansiaceae</i>	[John.e.van.si.a.ce'ae] N.L. fem. n. <i>Johnevansia</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Johnevansiaceae</i> , the <i>Johnevansia</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the following genera: <i>Johnevansia</i> , <i>Candidatus</i> Portiera.	<i>Johnevansiales</i>	<i>Johnevansia</i>	seqco.de/i:31932
Family <i>Kapaibacteriaceae</i>	[Ka.pa.i.bac.te.ri.a.ce'ae] N.L. neut. n. <i>Kapaibacterium</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Kapaibacteriaceae</i> , the <i>Kapaibacterium</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Kapaibacterium</i> .	<i>Kapaibacteriales</i>	<i>Kapaibacterium</i>	seqco.de/i:31935
Family <i>Magnetobacteriaceae</i>	[Ma.gne.to.bac.te.ri.a.ce'ae] N.L. neut. n. <i>Magnetobacterium</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Magnetobacteriaceae</i> , the <i>Magnetobacterium</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Magnetobacterium</i> .	<i>Thermodesulfovibrionales</i>	<i>Magnetobacterium</i>	seqco.de/i:31939
Family <i>Methylomirabilaceae</i>	[Me.thy.lo.mi.ra.bi.la.ce'ae] N.L. fem. n. <i>Methylomirabilis</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Methylomirabilaceae</i> , the <i>Methylomirabilis</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Methylomirabilis</i> .	<i>Methylomirabilales</i>	<i>Methylomirabilis</i>	seqco.de/i:31941
Family <i>Desulforudaceae</i>	[De.sul.fo.ru.da.ce'ae] N.L. fem. n. <i>Desulforudis</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Desulforudaceae</i> , the <i>Desulforudis</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the following genera: <i>Desulforudis</i> , <i>Candidatus</i> Desulfopertinax.	<i>Ammonificales</i>	<i>Desulforudis</i>	seqco.de/i:31925

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Family <i>Muiribacteriaceae</i>	[Mui.ri.bac.te.ri.a.ce'ae] N.L. neut. n. <i>Muiribacterium</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Muiribacteriaceae</i> , the <i>Muiribacterium</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Muiribacterium</i> .	<i>Muiribacteriales</i>	<i>Muiribacterium</i>	seqco.de/i:31946
Family <i>Cloacimonadaceae</i>	[Clo.a.ci.mo.na.da.ce'ae] N.L. fem. n. <i>Cloacimonas</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Cloacimonadaceae</i> , the <i>Cloacimonas</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the following genera: <i>Cloacimonas</i> , <i>Candidatus Syntrophosphaera</i> .	<i>Cloacimonadales</i>	<i>Cloacimonas</i>	seqco.de/i:31334
Family <i>Nucleicultricaceae</i>	[Nuc.le.i.cul.tri.ca.ce'ae] N.L. fem. n. <i>Nucleicultrix</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Nucleicultricaceae</i> , the <i>Nucleicultrix</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Nucleicultrix</i> .	<i>Caedimonadales</i>	<i>Nucleicultrix</i>	seqco.de/i:31952
Family <i>Obscuribacteraceae</i>	[Ob.scu.ri.bac.te.ra.ce'ae] N.L. masc. n. <i>Obscuribacter</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Obscuribacteraceae</i> , the <i>Obscuribacter</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Obscuribacter</i> .	<i>Obscuribacterales</i>	<i>Obscuribacter</i>	seqco.de/i:31956
Family <i>Promineifilaceae</i>	[Pro.mi.ne.i.fi.la.ce'ae] N.L. neut. n. <i>Promineifilum</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Promineifilaceae</i> , the <i>Promineifilum</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Promineifilum</i> .	<i>Promineifilales</i>	<i>Promineifilum</i>	seqco.de/i:31959

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Family <i>Puniceispirillaceae</i>	[Pu.ni.ce.i.spi.ril.la.ce'ae] N.L. neut. n. <i>Puniceispirillum</i> , type genus of the family; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Puniceispirillaceae</i> , the <i>Puniceispirillum</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Puniceispirillum</i> .	<i>Puniceispirillales</i>	<i>Puniceispirillum</i>	seqco.de/i:31340
Family <i>Saccharimonadaceae</i>	[Sac.cha.ri.mo.na.da.ce'ae] N.L. fem. n. <i>Saccharimonas</i> , type genus of the family; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Saccharimonadaceae</i> , the <i>Saccharimonas</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Saccharimonas</i> .	<i>Saccharimonadales</i>	<i>Saccharimonas</i>	seqco.de/i:31964
Family <i>Tenderiaceae</i>	[Ten.de.ri.a.ce'ae] N.L. fem. n. <i>Tenderia</i> , type genus of the family; N.L. fem. pl. n. <i>Tenderiaceae</i> , the <i>Tenderia</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Tenderia</i> .	<i>Tenderiales</i>	<i>Tenderia</i>	seqco.de/i:23552
Family <i>Thermobaculaceae</i>	[Ther.mo.ba.cu.la.ce'ae] N.L. neut. n. <i>Thermobaculum</i> , type genus of the family; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Thermobaculaceae</i> , the <i>Thermobaculum</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the genus <i>Thermobaculum</i> .	<i>Thermobaculales</i>	<i>Thermobaculum</i>	seqco.de/i:31969
Family <i>Pseudothioglobaceae</i>	[Pseu.do.thi.o.glo.ba.ce'ae] N.L. masc. n. <i>Pseudothioglobus</i> , type genus of the family; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Pseudothioglobaceae</i> , the <i>Pseudothioglobus</i> family	The family constitutes a monophyletic lineage as described and defined in Parks <i>et al.</i> (2018). The family contains the following genera: <i>Pseudothioglobus</i> , <i>Candidatus Thioglobus</i> , <i>Candidatus Ruthia</i> , <i>Candidatus Thiodubiliella</i> , <i>Candidatus Vesicomysocius</i> .	<i>Gammaproteobacteria_incertae_sedis</i>	<i>Pseudothioglobus</i>	seqco.de/i:31962