

# Register list for 42 new names including Binataceae fam. nov.

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## Phylum *Methylomirabilota*

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### Etymology

[Me.thy.lo.mi.ra.bi.lo'ta] N.L. fem. n. *Methylomirabilis*, type genus of the phylum; *-ota*, ending to denote a phylum; N.L. neut. pl. n. *Methylomirabilota*, the *Methylomirabilis* phylum

### Nomenclatural type

Genus *Methylomirabilis*

### Description

The phylum constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The phylum contains the class *Methylomirabilia*.

### Classification

*Bacteria* » *Methylomirabilota*

### References

Effective publication: Chuvochina et al., 2023 [1]

### Registry URL

<https://seqco.de/i:31944>

## Class *Binatia*

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### Etymology

[Bi.na'ti.a] N.L. masc. n. *Binatus*, type genus of the class; *-ia*, ending to denote a class; N.L. neut. pl. n. *Binatia*, the *Binatus* class

### Nomenclatural type

Genus *Binatus*

### Description

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the order *Binatales*.

### Classification

*Bacteria* » *Desulfobacterota* » *Binatia*

### References

Effective publication: Chuvochina et al., 2023 [1]

### Registry URL

<https://seqco.de/i:31413>

## Class *Bipolaricaulia*

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### Etymology

[Bi.po.la.ri.cau'li.a] N.L. masc. n. *Bipolaricaulis*, type genus of the class; *-ia*, ending to denote a class; N.L. neut. pl. n. *Bipolaricaulia*, the *Bipolaricaulis* class

### Nomenclatural type

Genus *Bipolaricaulis*

**Description**

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the order *Bipolaricaulales*.

**Classification**

*Bacteria* » *Bipolaricaulota* » *Bipolaricaulia*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31922>

## Class *Kapaibacteriia*

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**Etymology**

[Ka.pa.i.bac.te.ri'i.a] **N.L. neut. n.** *Kapaibacterium*, type genus of the class; *-ia*, ending to denote a class; **N.L. neut. pl. n.** *Kapaibacteriia*, the Kapaibacterium class

**Nomenclatural type**

Genus *Kapaibacterium*

**Description**

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the order *Kapaibacteriales*.

**Classification**

*Bacteria* » *Bacteroidota* » *Kapaibacteriia*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31938>

## Class *Methylomirabilia*

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**Etymology**

[Me.thy.lo.mi.ra.bi'li.a] **N.L. fem. n.** *Methylomirabilis*, type genus of the class; *-ia*, ending to denote a class; **N.L. neut. pl. n.** *Methylomirabilia*, the Methylomirabilis class

**Nomenclatural type**

Genus *Methylomirabilis*

**Description**

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the following orders: *Methylomirabilales*, *Candidatus Rokubacteriales*.

**Classification**

*Bacteria* » *Methylomirabilota* » *Methylomirabilia*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31943>

## Class *Muiribacteriia*

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**Etymology**

[Mui.ri.bac.te.ri'i.a] N.L. neut. n. *Muiribacterium*, type genus of the class; *-ia*, ending to denote a class; N.L. neut. pl. n. *Muiribacteriia*, the Muiribacterium class

**Nomenclatural type**

Genus *Muiribacterium*

**Description**

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the order *Muiribacteriales*.

**Classification**

*Bacteria* » *Muiribacteriota* » *Muiribacteriia*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31949>

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**Class *Cloacimonadia***

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**Etymology**

[Clo.a.ci.mo.na'di.a] N.L. fem. n. *Cloacimonas*, type genus of the class; N.L. neut. pl. n. *Cloacimonadia*, the Cloacimonas class

**Nomenclatural type**

Genus *Cloacimonas*

**Description**

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the order *Cloacimonadales*.

**Classification**

*Bacteria* » *Cloacimonadota* » *Cloacimonadia*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31336>

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**Class *Hydrothermia***

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**Etymology**

[Hy.dro.ther'mi.a] N.L. masc. n. *Hydrothermus*, type genus of the class; *-ia*, ending to denote a class; N.L. neut. pl. n. *Hydrothermia*, the Hydrothermus class

**Nomenclatural type**

Genus *Hydrothermus*

**Description**

The class constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The class contains the order *Hydrothermales*.

**Classification**

*Bacteria* » "Hydrothermota" » *Hydrothermia*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31418>

## Order *Binatales*

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**Etymology**

[Bi.na.ta'les] **N.L. masc. n.** *Binatus*, type genus of the order; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Binatales*, the Binatus order

**Nomenclatural type**

Genus *Binatus*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Binataceae*.

**Classification**

*Bacteria* » *Desulfobacterota* » *Binatia* » *Binatales*

**References**

Effective publication: Chuvochina *et al.*, 2023 [1]

**Registry URL**

<https://seqco.de/i:31412>

## Order *Hydrothermales*

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**Etymology**

[Hy.dro.ther.ma'les] **N.L. masc. n.** *Hydrothermus*, type genus of the order; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Hydrothermales*, the Hydrothermus order

**Nomenclatural type**

Genus *Hydrothermus*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Hydrothermaceae*.

**Classification**

*Bacteria* » "Hydrothermota" » *Hydrothermia* » *Hydrothermales*

**References**

Effective publication: Chuvochina *et al.*, 2023 [1]

**Registry URL**

<https://seqco.de/i:31417>

## Order *Bipolaricaulales*

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**Etymology**

[Bi.po.la.ri.cau.la'les] **N.L. masc. n.** *Bipolaricaulis*, type genus of the order; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Bipolaricaulales*, the Bipolaricaulis order

**Nomenclatural type**

Genus *Bipolaricaulis*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Bipolaricaulaceae*.

**Classification**

*Bacteria* » *Bipolaricaulota* » *Bipolaricaulia* » *Bipolaricaulales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31921>

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**Order *Johnevansiales***

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**Etymology**

[John.e.van.si.a'les] N.L. fem. n. *Johnevansia*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Johnevansiales*, the Johnevansia order

**Nomenclatural type**

Genus *Johnevansia*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Johnevansiaceae*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Johnevansiales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31933>

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**Order *Kapaibacteriales***

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**Etymology**

[Ka.pa.i.bac.te.ri.a'les] N.L. neut. n. *Kapaibacterium*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Kapaibacteriales*, the Kapaibacterium order

**Nomenclatural type**

Genus *Kapaibacterium*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Kapaibacteriaceae*.

**Classification**

*Bacteria* » *Bacteroidota* » *Kapaibacteriia* » *Kapaibacteriales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31937>

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**Order *Methylomirabilales***

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**Etymology**

[Me.thy.lo.mi.ra.bi.la'les] N.L. **fem. n.** *Methylomirabilis*, type genus of the order; *-ales*, ending to denote an order; N.L. **fem. pl. n.** *Methylomirabiales*, the Methylomirabilis order

**Nomenclatural type**

Genus *Methylomirabilis*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Methylomirabilaceae*.

**Classification**

*Bacteria* » *Methylomirabilota* » *Methylomirabilia* » *Methylomirabiales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31942>

## Order *Muiribacteriales*

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**Etymology**

[Mui.ri.bac.te.ri.a'les] N.L. **neut. n.** *Muiribacterium*, type genus of the order; *-ales*, ending to denote an order; N.L. **fem. pl. n.** *Muiribacteriales*, the Muiribacterium order

**Nomenclatural type**

Genus *Muiribacterium*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Muiribacteriaceae*.

**Classification**

*Bacteria* » *Muiribacteriota* » *Muiribacteriia* » *Muiribacteriales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31948>

## Order *Cloacimonadales*

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**Etymology**

[Clo.a.ci.mo.na.da'les] N.L. **fem. n.** *Cloacimonas*, type genus of the order; *-ales*, ending to denote an order; N.L. **fem. pl. n.** *Cloacimonadales*, the Cloacimonas order

**Nomenclatural type**

Genus *Cloacimonas*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Cloacimonadaceae*.

**Classification**

*Bacteria* » *Cloacimonadota* » *Cloacimonadia* » *Cloacimonadales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31335>

## Order *Puniceispirillales*

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**Etymology**

[Pu.ni.ce.i.spi.ril.la'les] N.L. neut. n. *Puniceispirillum*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Puniceispirillales*, the Puniceispirillum order

**Nomenclatural type**

Genus *Puniceispirillum*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Puniceispirillaceae*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Alphaproteobacteria* » *Puniceispirillales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31341>

## Order *Saccharimonadales*

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**Etymology**

[Sac.cha.ri.mo.na.da'les] N.L. fem. n. *Saccharimonas*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Saccharimonadales*, the Saccharimonas order

**Nomenclatural type**

Genus *Saccharimonas*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Saccharimonadaceae*.

**Classification**

*Bacteria* » “*Saccharimonadota*” » “*Saccharimonadia*” » *Saccharimonadales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31966>

## Order *Tenderiales*

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**Etymology**

[Ten.de.ri.a'les] N.L. fem. n. *Tenderia*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Tenderiales*, the Tenderia order

**Nomenclatural type**

Genus *Tenderia*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Tenderiaceae*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Tenderiales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:23553>

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**Order *Thermobaculales***

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**Etymology**

[Ther.mo.ba.cu.la'les] N.L. neut. n. *Thermobaculum*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Thermobaculales*, the Thermobaculum order

**Nomenclatural type**

Genus *Thermobaculum*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Thermobaculaceae*.

**Classification**

*Bacteria* » *Chloroflexota* » *Chloroflexia* » *Thermobaculales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31971>

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**Order *Promineifilales***

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**Etymology**

[Pro.mi.ne.i.fi.la'les] N.L. neut. n. *Promineifilum*, type genus of the order; *-ales*, ending to denote an order; N.L. fem. pl. n. *Promineifilales*, the Promineifilum order

**Nomenclatural type**

Genus *Promineifilum*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Promineifilaceae*.

**Classification**

*Bacteria* » *Chloroflexota* » *Anaerolineae* » *Promineifilales*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31960>

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**Family *Binataceae***

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**Etymology**

[Bi.na.ta'ce.ae] N.L. masc. n. *Binatus*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Binataceae*, the Binatus family

**Nomenclatural type**

Genus *Binatus*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Binatus*.

**Classification**

*Bacteria* » *Desulfobacterota* » *Binatia* » *Binatales* » *Binataceae*

**References**

Effective publication: Chuvochina *et al.*, 2023 [1]  
Assigned taxonomically: Chuvochina *et al.*, 2019 [2]

**Registry URL**

<https://seqco.de/i:31411>

## Family *Hydrothermaceae*

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**Etymology**

[Hy.dro.ther.ma.ce'ae] N.L. masc. n. *Hydrothermus*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Hydrothermaceae*, the Hydrothermus family

**Nomenclatural type**

Genus *Hydrothermus*

**Description**

The order constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The order contains the family *Hydrothermaceae*.

**Classification**

*Bacteria* » "Hydrothermota" » *Hydrothermia* » *Hydrothermales* » *Hydrothermaceae*

**References**

Effective publication: Chuvochina *et al.*, 2023 [1]

**Registry URL**

<https://seqco.de/i:31416>

## Family *Azobacteroidaceae*

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**Etymology**

[A.zo.bac.te.ro.i.da.ce'ae] N.L. masc. n. *Azobacteroides*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Azobacteroidaceae*, the Azobacteroides family

**Nomenclatural type**

Genus *Azobacteroides*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the following genera: *Azobacteroides*, and *Candidatus Symbiothrix*.

**Classification**

*Bacteria* » *Bacteroidota* » *Bacteroidia* » *Bacteroidales* » *Azobacteroidaceae*

**References**

Effective publication: Chuvochina *et al.*, 2023 [1]

**Registry URL**

<https://seqco.de/i:31916>

## Family *Bipolaricaulaceae*

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**Etymology**

[Bi.po.la.ri.cau.la.ce'ae] N.L. masc. n. *Bipolaricaulis*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Bipolaricaulaceae*, the Bipolaricaulis family

**Nomenclatural type**

Genus *Bipolaricaulis*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Bipolaricaulis*.

**Classification**

*Bacteria* » *Bipolaricaulota* » *Bipolaricaulia* » *Bipolaricaulales* » *Bipolaricaulaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31920>

## Family *Hepatobacteraceae*

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**Etymology**

[He.pa.to.bac.te.ra.ce'ae] N.L. masc. n. *Hepatobacter*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Hepatobacteraceae*, the Hepatobacter family

**Nomenclatural type**

Genus *Hepatobacter*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Hepatobacter*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Alphaproteobacteria* » *Holosporales* » *Hepatobacteraceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31928>

## Family *Hepatoplasmataceae*

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**Etymology**

[He.pa.to.plas.ma.ta.ce'ae] N.L. neut. n. *Hepatoplasma*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Hepatoplasmataceae*, the Hepatoplasma family

**Nomenclatural type**

Genus *Hepatoplasma*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Hepatoplasma*.

**Classification**

*Bacteria* » *Mycoplasmata* » *Mollicutes* » *Mycoplasmatales* » *Hepatoplasmataceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31930>

## Family *Johnevansiaceae*

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**Etymology**

[John.e.van.si.a.ce'ae] N.L. fem. n. *Johnevansia*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Johnevansiaceae*, the *Johnevansia* family

**Nomenclatural type**

Genus *Johnevansia*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the following genera: *Johnevansia*, *Candidatus* Portiera.

**Classification**

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Johnevansiales* » *Johnevansiaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31932>

## Family *Kapaibacteriaceae*

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**Etymology**

[Ka.pa.i.bac.te.ri.a.ce'ae] N.L. neut. n. *Kapaibacterium*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Kapaibacteriaceae*, the *Kapaibacterium* family

**Nomenclatural type**

Genus *Kapaibacterium*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Kapaibacterium*.

**Classification**

*Bacteria* » *Bacteroidota* » *Kapaibacteriia* » *Kapaibacteriales* » *Kapaibacteriaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31935>

## Family *Magnetobacteriaceae*

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**Etymology**

[Ma.gne.to.bac.te.ri.a.ce'ae] N.L. neut. n. *Magnetobacterium*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Magnetobacteriaceae*, the Magnetobacterium family

**Nomenclatural type**

Genus *Magnetobacterium*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Magnetobacterium*.

**Classification**

*Bacteria* » *Nitrospirota* » *Thermodesulfovibrionia* » *Thermodesulfovibrionales* » *Magnetobacteriaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31939>

## Family *Methylomirabilaceae*

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**Etymology**

[Me.thy.lo.mi.ra.bi.la.ce'ae] N.L. fem. n. *Methylomirabilis*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Methylomirabilaceae*, the Methylomirabilis family

**Nomenclatural type**

Genus *Methylomirabilis*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Methylomirabilis*.

**Classification**

*Bacteria* » *Methylomirabilota* » *Methylomirabilia* » *Methylomirabiales* » *Methylomirabilaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31941>

## Family *Desulforudaceae*

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**Etymology**

[De.sul.fo.ru.da.ce'ae] N.L. fem. n. *Desulforudis*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Desulforudaceae*, the Desulforudis family

**Nomenclatural type**

Genus *Desulforudis*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the following genera: *Desulforudis*, *Candidatus Desulfopertinax*.

**Classification**

*Bacteria* » *Bacillota* » “Desulfotomaculia” » *Ammonificales* » *Desulforudaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

## Registry URL

<https://seqco.de/i:31925>

## Family *Muiribacteriaceae*

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## Etymology

[Mui.ri.bac.te.ri.a.ce'ae] N.L. neut. n. *Muiribacterium*, type genus of the family; *-aceae*, ending to denote a family;  
N.L. fem. pl. n. *Muiribacteriaceae*, the Muiribacterium family

## Nomenclatural type

Genus *Muiribacterium*

## Description

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Muiribacterium*.

## Classification

*Bacteria* » *Muiribacteriota* » *Muiribacteriia* » *Muiribacteriales* » *Muiribacteriaceae*

## References

Effective publication: Chuvochina et al., 2023 [1]

## Registry URL

<https://seqco.de/i:31946>

## Family *Cloacimonadaceae*

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## Etymology

[Clo.a.ci.mo.na.da.ce'ae] N.L. fem. n. *Cloacimonas*, type genus of the family; *-aceae*, ending to denote a family;  
N.L. fem. pl. n. *Cloacimonadaceae*, the Cloacimonas family

## Nomenclatural type

Genus *Cloacimonas*

## Description

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the following genera: *Cloacimonas*, *Candidatus Syntrophosphaera*.

## Classification

*Bacteria* » *Cloacimonadota* » *Cloacimonadia* » *Cloacimonadales* » *Cloacimonadaceae*

## References

Effective publication: Chuvochina et al., 2023 [1]

## Registry URL

<https://seqco.de/i:31334>

## Family *Nucleicultricaceae*

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## Etymology

[Nuc.le.i.cul.tri.ca.ce'ae] N.L. fem. n. *Nucleicultrix*, type genus of the family; *-aceae*, ending to denote a family;  
N.L. fem. pl. n. *Nucleicultricaceae*, the Nucleicultrix family

## Nomenclatural type

Genus *Nucleicultrix*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Nucleicultrix*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Alphaproteobacteria* » “Caedimonadales” » *Nucleicultriceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31952>

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**Family *Obscuribacteraceae***

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**Etymology**

[Ob.scu.ri.bac.te.ra.ce'ae] N.L. masc. n. *Obscuribacter*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Obscuribacteraceae*, the *Obscuribacter* family

**Nomenclatural type**

Genus *Obscuribacter*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Obscuribacter*.

**Classification**

*Bacteria* » *Cyanobacteriota* » *Vampirovibrionia* » *Obscuribacterales* » *Obscuribacteraceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31956>

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**Family *Promineifilaceae***

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**Etymology**

[Pro.mi.ne.i.fi.la.ce'ae] N.L. neut. n. *Promineifilum*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Promineifilaceae*, the *Promineifilum* family

**Nomenclatural type**

Genus *Promineifilum*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Promineifilum*.

**Classification**

*Bacteria* » *Chloroflexota* » *Anaerolineae* » *Promineifilales* » *Promineifilaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31959>

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**Family *Puniceispirillaceae***

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**Etymology**

[Pu.ni.ce.i.spi.ril.la.ce'ae] N.L. neut. n. *Puniceispirillum*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Puniceispirillaceae*, the Puniceispirillum family

**Nomenclatural type**

Genus *Puniceispirillum*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Puniceispirillum*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Alphaproteobacteria* » *Puniceispirillales* » *Puniceispirillaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31340>

## Family *Saccharimonadaceae*

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**Etymology**

[Sac.cha.ri.mo.na.da.ce'ae] N.L. fem. n. *Saccharimonas*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Saccharimonadaceae*, the Saccharimonas family

**Nomenclatural type**

Genus *Saccharimonas*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Saccharimonas*.

**Classification**

*Bacteria* » “Saccharimonadota” » “Saccharimonadia” » *Saccharimonadales* » *Saccharimonadaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31964>

## Family *Tenderiaceae*

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**Etymology**

[Ten.de.ri.a.ce'ae] N.L. fem. n. *Tenderia*, type genus of the family; N.L. fem. pl. n. *Tenderiaceae*, the Tenderia family

**Nomenclatural type**

Genus *Tenderia*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Tenderia*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Tenderiales* » *Tenderiaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**<https://seqco.de/i:23552>

## Family *Thermobaculaceae*

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**Etymology**

[Ther.mo.ba.cu.la.ce'ae] N.L. neut. n. *Thermobaculum*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Thermobaculaceae*, the *Thermobaculum* family

**Nomenclatural type**

Genus *Thermobaculum*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the genus *Thermobaculum*.

**Classification**

*Bacteria* » *Chloroflexota* » *Chloroflexia* » *Thermobaculales* » *Thermobaculaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**<https://seqco.de/i:31969>

## Family *Pseudothioglobaceae*

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**Etymology**

[Pseu.do.thi.o.glo.ba.ce'ae] N.L. masc. n. *Pseudothioglobus*, type genus of the family; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Pseudothioglobaceae*, the *Pseudothioglobus* family

**Nomenclatural type**

Genus *Pseudothioglobus*

**Description**

The family constitutes a monophyletic lineage as described and defined in Parks *et al.* (2018). The family contains the following genera: *Pseudothioglobus*, *Candidatus* *Thioglobus*, *Candidatus* *Ruthia*, *Candidatus* *Thiodubiliella*, *Candidatus* *Vesicomysosocius*.

**Classification**

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » “*Gammaproteobacteria\_incertae\_sedis*” » *Pseudothioglobaceae*

**References**

Effective publication: Chuvochina et al., 2023 [1]

**Registry URL**<https://seqco.de/i:31962>

## References

1. Chuvochina et al. (2023). Proposal of names for 329 higher rank taxa defined in the Genome Taxonomy Database under two prokaryotic codes. *FEMS Microbiology Letters*. DOI:10.1093/femsle/fnad071
2. Chuvochina et al. (2019). The importance of designating type material for uncultured taxa. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2018.07.003



## Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List [seqco.de/r:3yxqlvua](https://seqco.de/r:3yxqlvua) submitted by **Chuvochina, Maria** and including 42 new names has been successfully validated.

**Date of Priority:** 2023-09-25 03:16 UTC

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