

Register list for 44 new names including *Fervidifonticoltor octavus* sp. 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>Sysuimicrobiota</i>	[Sy.su.i.mic.ro'bi.o'ta] N.L. neut. n. <i>Sysuimicrobium</i> , type genus of the phylum; -ota, ending to denote a phylum; N.L. pl. neut. n. <i>Sysuimicrobiota</i> , the <i>Sysuimicrobium</i> phylum	A phylum established on the basis of AAI, ANI, dDDH and phylogenomic analyses.	<i>Bacteria</i>	<i>Sysuimicrobium</i>	seqco.de/i:32755
Class <i>Sysuimicrobia</i>	[Sy.su.i.mic.ro'bi.ia] N.L. neut. n. <i>Sysuimicrobium</i> , referring to the type genus <i>Sysuimicrobium</i> ; -ia, ending to denote a class; N.L. neut. pl. n. <i>Sysuimicrobia</i> , the <i>Sysuimicrobium</i> class	A class established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiota</i> phylum.	<i>Sysuimicrobiota</i>	<i>Sysuimicrobium</i>	seqco.de/i:32781
Order <i>Sysuimicrobiales</i>	[Sy.su.i.mi.cro'bi.a'les] N.L. neut. n. <i>Sysuimicrobium</i> , type genus of the order; -ales, ending to denote an order; N.L. fem. pl. n. <i>Sysuimicrobiales</i> , the <i>Sysuimicrobium</i> order	A order established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobia</i> class.	<i>Sysuimicrobia</i>	<i>Sysuimicrobium</i>	seqco.de/i:32782
Family <i>Kaftiobacteriaceae</i>	[Kaf.ti.o.bac.te.ri.a.ce'ae] N.L. neut. n. <i>Kaftiobacterium</i> , type genus of the family; L. suff. aceae, ending to denote a family; N.L. fem. pl. n. <i>Kaftiobacteriaceae</i> , the <i>Kaftiobacterium</i> family	A family established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiales</i> order.	<i>Sysuimicrobiales</i>	<i>Kaftiobacterium</i>	seqco.de/i:32799
Family <i>Segetimicrobiaceae</i>	[Se.ge'ti.mi.cro.bi.a.ce'ae] N.L. neut. n. <i>Segetimicrobium</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Segetimicrobiaceae</i> , the <i>Segetimicrobium</i> family	A family established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiales</i> order.	<i>Sysuimicrobiales</i>	<i>Segetimicrobium</i>	seqco.de/i:32796

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Family <i>Sysuimicrobiaceae</i>	[Sy.su.i.mi.cro.bi.a.ce'ae] N.L. neut. n. <i>Sysuimicrobium</i> , type genus of the family; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Sysuimicrobiaceae</i> , the <i>Sysuimicrobium</i> family	A family established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiales</i> order.	<i>Sysuimicrobiales</i>	<i>Sysuimicrobium</i>	seqco.de/i:32783
Family <i>Thermofontiviventaceae</i>	[Ther.mo.fon.ti.vi.ven.ta.ce'ae] N.L. masc. n. <i>Thermofontivivens</i> , referring to the type genus <i>Thermofontivivens</i> ; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Thermofontiviventaceae</i> , the <i>Thermofontivivens</i> family	A family established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiales</i> order.	<i>Sysuimicrobiales</i>	<i>Thermofontivivens</i>	seqco.de/i:32792
Family <i>Humiculatoraceae</i>	[Hu.mi.cul.tor.a.ce'ae] N.L. masc. n. <i>Humiculator</i> , type genus of the family; L. suff. -aceae, ending to denote a family; N.L. fem. pl. n. <i>Humiculatoraceae</i> , the <i>Humiculator</i> family	A family established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiales</i> order.	<i>Sysuimicrobiales</i>	<i>Humiculator</i>	seqco.de/i:32808
Genus <i>Fervidifonticulor</i>	[Fer.vi.di.fon.ti.cul'tor] L. masc. adj. <i>fervidus</i> , hot, burning; L. masc. n. <i>fons</i> , a spring, fountain; L. masc. n. <i>cultur</i> , an inhabitant; N.L. masc. n. <i>Fervidifonticulor</i> , inhabitant of a hot spring	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Humiculatoraceae</i> family. The type species of the genus is <i>Fervidifonticulor primus</i> .	<i>Humiculatoraceae</i>	<i>Fervidifonticulor primus</i> ^{Ts}	seqco.de/i:32815
Genus <i>Calidihabitans</i>	[Ca.li.di.ha.bi'tans] L. masc. adj. <i>calidus</i> , hot; L. pres. part. <i>habitans</i> , inhabiting; N.L. masc. n. <i>Calidihabitans</i> , inhabitants of hot environments	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Kaftiobacteriaceae</i> family. The type species of the genus is <i>Calidihabitans tengchongensis</i> .	<i>Kaftiobacteriaceae</i>	<i>Calidihabitans tengchongensis</i> ^{Ts}	seqco.de/i:32806
Genus <i>Kaftiobacterium</i>	[Kaf.ti.o.bac.te.ri.um] Gr. adj. <i>kafti</i> , hot; N.L. neut. n. <i>bacterium</i> , rod or staff and, in biology a bacterium; N.L. neut. n. <i>Kaftiobacterium</i> , a bacterium in hot environment	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Kaftiobacteriaceae</i> family. The type species of the genus is <i>Kaftiobacterium primum</i> .	<i>Kaftiobacteriaceae</i>	<i>Kaftiobacterium secundum</i> ^{Ts}	seqco.de/i:32800

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Genus <i>Segetimicrobium</i>	[Se.ge.ti.mi.cro'bi.um] L. gen. n. <i>segetis</i> , of the soil; N.L. neut. n. <i>microbium</i> , microbe; N.L. neut. n. <i>Segetimicrobium</i> , a microbe of the earth	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Segetimicrobiaceae</i> family. The type species of the genus is <i>Segetimicrobium genomatis</i> .	<i>Segetimicrobiaceae</i>	<i>Segetimicrobium genomatis</i> ^{Ts}	seqco.de/i:32797
Genus <i>Caldifonticola</i>	[Cal.di.fon.ti'co.la] L. adj. <i>caldus</i> , hot; L. masc. n. <i>fons</i> , a spring; N.L. masc. suff. <i>cola</i> , an inhabitant; N.L. masc. n. <i>Caldifonticola</i> , inhabitant of a hot spring	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiaceae</i> family. The type species of the genus is <i>Caldifonticola tengchongensis</i> .	<i>Sysuimicrobiaceae</i>	<i>Caldifonticola tengchongensis</i> ^{Ts}	seqco.de/i:32788
Genus <i>Tepidifontimicrobium</i>	[Te.pi.di.fon.ti.mi.cro'bi.um] L. masc. adj. <i>tepidus</i> , moderately warm; L. masc. n. <i>fons</i> , a spring; N.L. neut. n. <i>microbium</i> , microbe; N.L. neut. n. <i>Tepidifontimicrobium</i> , a microbe from a warm spring	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiaceae</i> family. The type species of the genus is <i>Tepidifontimicrobium thermophilum</i> .	<i>Sysuimicrobiaceae</i>	<i>Tepidifontimicrobium thermophilum</i> ^{Ts}	seqco.de/i:32790
Genus <i>Geohabitans</i>	[Ge.o.ha.bi.tans] Gr. n. <i>geo</i> , the earth; L. pres. part. <i>habitans</i> , inhabiting; N.L. masc. n. <i>Geohabitans</i> , an inhabitant of Earth	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Humicitoraceae</i> family. The type species of the genus is <i>Geohabitans tengchongensis</i> .	<i>Humicitoraceae</i>	<i>Geohabitans tengchongensis</i> ^{Ts}	seqco.de/i:32812
Genus <i>Thermofontivivens</i>	[Ther.mo.fon.ti.vi'vens] Gr. masc. adj. <i>thermos</i> , hot; L. masc. n. <i>fons</i> , a spring; L. pres. part. <i>vivens</i> , living; N.L. masc. n. <i>Thermofontivivens</i> , living in a hot spring	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Thermofontiviventaceae</i> family. The type species of the genus is <i>Thermofontivivens primum</i> .	<i>Thermofontiviventaceae</i>	<i>Thermofontivivens primus</i> ^{Ts}	seqco.de/i:32793

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Genus <i>Sysuimicrobium</i>	[Sy.su.i.mi.cro.bi.um] N.L. neut. n. <i>microbium</i> , microbe; N.L. neut. n. <i>Sysuimicrobium</i> , arbitrary name from the acronym of Sun Yat-Sen University, SYSU where the identification of microbial metagenome was done	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobiaceae</i> family. The type species of the genus is <i>Sysuimicrobium thermophilum</i> .	<i>Sysuimicrobiaceae</i>	<i>Sysuimicrobium calidum</i> ^{Ts}	seqco.de/i:32784
Genus <i>Humicultor</i>	[Hu.mi.cul'tor] L. fem. n. <i>humus</i> , soil; L. masc. n. <i>cultor</i> , an inhabitant; N.L. masc. n. <i>Humicultor</i> , an inhabitant of soil	A genus established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Humicultraceae</i> family. The type species of the genus is <i>Humicultor riflensis</i> .	<i>Humicultraceae</i>	<i>Humicultor tengchongensis</i> ^{Ts}	seqco.de/i:32809
Species <i>Fervidifonticulor primus</i> ^{Ts}	[pri'mus] L. masc. adj. <i>primus</i> , first, to represent the first genome bin from of the genus	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Fervidifonticulor</i> genus.	<i>Fervidifonticulor</i>	INSDC Nucleotide: JAVKHP0000000000 ^{Ts}	seqco.de/i:32816
Species <i>Fervidifonticulor quartus</i>	[qu.ar'tus] L. masc. adj. <i>quartus</i> , fourth, to represent the fourth genome bin of the genus	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Fervidifonticulor</i> genus.	<i>Fervidifonticulor</i>	NCBI Assembly: GCA_031458775.1 ^{Ts}	seqco.de/i:32819
Species <i>Fervidifonticulor secundus</i>	[se.cun'dus] L. masc. adj. <i>secundus</i> , second, to represent the second genome bin of the genus	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Fervidifonticulor</i> genus.	<i>Fervidifonticulor</i>	NCBI Assembly: GCA_031459385.1 ^{Ts}	seqco.de/i:32817
Species <i>Fervidifonticulor tertius</i>	[ter'ti.us.] L. masc. adj. <i>tertius</i> , third, to represent the third genome bin of the genus	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Fervidifonticulor</i> genus.	<i>Fervidifonticulor</i>	NCBI Assembly: GCA_031459235.1 ^{Ts}	seqco.de/i:32818
Species <i>Sysuimicrobium calidum</i> ^{Ts}	[ca'li.dum] L. neut. adj. <i>calidum</i> , indicating the origin of the metagenome from hot spring	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobium</i> genus.	<i>Sysuimicrobium</i>	NCBI Assembly: GCA_031459935.1 ^{Ts}	seqco.de/i:32787

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Species <i>Sysuimicrobium tengchongense</i>	[teng.chong.en'se] N.L. neut. adj. <i>tengchongense</i> , referring to Tengchong	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Sysuimicrobium</i> genus.	<i>Sysuimicrobium</i>	NCBI Assembly: GCA_031460175.1 ^{Ts}	seqco.de/i:32786
Species <i>Calidihabitans tengchongensis^{Ts}</i>	[teng.chong.en'sis] N.L. masc. adj. <i>tengchongensis</i> , pertaining to Tengchong, the source of the metagenomic sample	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Calidihabitans</i> genus.	<i>Calidihabitans</i>	INSDC Nucleotide: JAVKIE0000000000 ^{Ts}	seqco.de/i:32807
Species <i>Tepidifontimicrobium thermophilum^{Ts}</i>	[ther.mo'phi.lum] Gr. fem. adj. <i>thermē</i> , heat; N.L. neut. adj. <i>philum</i> , loving; N.L. neut. adj. <i>thermophilum</i> , heat loving	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Tepidifontimicrobium</i> genus.	<i>Tepidifontimicrobium</i>	INSDC Nucleotide: JAVKHO0000000000 ^{Ts}	seqco.de/i:32791
Species <i>Segetimicrobium genomatis^{Ts}</i>	[ge.no.ma'tis] N.L. gen. n. <i>genomatis</i> , of a genome	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Segetimicrobium</i> genus.	<i>Segetimicrobium</i>	INSDC Nucleotide: VBAK00000000 ^{Ts}	seqco.de/i:32798
Species <i>Thermofontivivens primus^{Ts}</i>	[pri'mus] L. masc. adj. <i>primus</i> , first, to represent the first genome bin from of the genus	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Thermofontivivens</i> genus.	<i>Thermofontivivens</i>	INSDC Nucleotide: JAVKJW0000000000 ^{Ts}	seqco.de/i:32794
Species <i>Kaftiobacterium secundum^{Ts}</i>	[se.cun'dum] L. neut. adj. <i>secundum</i> , second, to represent the second genome bin of the genus	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Kaytiobacterium</i> genus.	<i>Kaftiobacterium</i>	INSDC Nucleotide: JAVKHY0000000000 ^{Ts}	seqco.de/i:32802
Species <i>Caldifonticola tengchongensis^{Ts}</i>	[teng.chong.en'sis] N.L. masc. adj. <i>tengchongensis</i> , pertaining to Tengchong, the source of the metagenomic sample	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Caldifonticola</i> genus.	<i>Caldifonticola</i>	INSDC Nucleotide: JAVKGX0000000000 ^{Ts}	seqco.de/i:32789
Species <i>Geohabitans tengchongensis^{Ts}</i>	[teng.chong.en'sis] N.L. masc. adj. <i>tengchongensis</i> , pertaining to Tengchong, the source of the metagenomic sample	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Terrahabitans</i> genus.	<i>Geohabitans</i>	NCBI Assembly: GCA_031459625.1 ^{Ts}	seqco.de/i:32814

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Species <i>Humicultor tengchongensis</i> ^{Ts}	[teng.chong.en'sis] N.L. masc. adj. <i>tengchongensis</i> , pertaining to Tengchong, the source of the metagenomic sample	A species established on the basis of AAI, ANI, dDDH and phylogenomic analyses, and is classified as a member of the <i>Humicultor</i> genus.	<i>Humicultor</i>	INSDC Nucleotide: JAVKIA000000000 ^{Ts}	seqco.de/i:32811