

6. Köszönetnyilvánítás

Szeretnénk köszönetet mondani témavezetőnknek, *Dr. Máthé Istvánnak*, a munkánk során nyújtott segítségéért, valamint a TDK dolgozat elkészítése során adott hasznos tanácsokért, útmutatásokért.

Ugyanakkor köszönettel tartozunk *Dr. Kovács Erikának*, a molekuláris biológiai vizsgálatok során nyújtott segítségéért és tanácsaiért.

Külön köszönet jár *Dr. Szilveszter Szabolcsnak*, a fizikai-kémiai vizsgálatok során nyújtott szakmai tanácsaiért.

Továbbá köszönettel tartozunk *Dr. Felföldi Tamásnak* az Eötvös Loránd Tudományegyetem Mikrobiológiai Tanszék adjunktusának a támogatásáért.

7. Irodalomjegyzék

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Internetes források

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8. Mellékletek

8. táblázat. A baktériumtörzsek megnevezése és besorolása.

Ssz.	Kódszám	Fajnév	Szekvencia kód	Szerző	Rendszertani osztályozás	Génbank	Hasonlóság (%)	Bázispár
1	CAI-01	<i>Advenella faeciporci</i>	M-07 (T)	Matsuoka et al. 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Advenella; Advenella faeciporci	AB567741	97,32	857
2	CAI-02	<i>Hydrogenophaga taeniospiralis</i>	ATCC 49743 (T)	(Lalucat et al. 1982) Willems et al. 1989	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Comamonadaceae; Hydrogenophaga; Hydrogenophaga taeniospiralis	AF078768	98,47	852
3	CAI-03	<i>Acinetobacter towneri</i>	DSM 14962 (T)	Carr et al. 2003	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Moraxellaceae; Acinetobacter; Acinetobacter towneri	APPY01000064	97,3	864
4	CAI-04	<i>Paracoccus homiensis</i>	DD-R11 (T)	Kim et al. 2006	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus homiensis	DQ342239	97,86	796
5	CAI-08	<i>Bacillus mojavensis</i>	RO-H-1(T)	Roberts et al. 1994	Bacteria, Firmicutes, Bacilli, Bacillales, Bacillaceae, Bacillus, Bacillus mojavensis	JH600280	99.77	870
6	CAI-13	<i>Acinetobacter towneri</i>	DSM 14962(T)	Carr et al. 2003	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Moraxellaceae;	APPY01000064	99,31	879

					Acinetobacter; Acinetobacter towneri			
7	CAI-14	<i>Acinetobacter towneri</i>	DSM 14962 (T)	Carr et al. 2003	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Moraxellaceae; Acinetobacter; Acinetobacter towneri	APPY01000064	99,77	858
8	CAI-16	<i>Pseudomonas caeni</i>	HY-14 (T)	Xiao et al. 2009	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas caeni	EU620679	98,95	861
9	CAI-17	<i>Advenella faeciporci</i>	M-07 (T)	Matsuoka et al. 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Advenella; Advenella faeciporci	AB567741	99,65	860
10	CAI-18A	<i>Paracoccus chinensis</i>	KS-11(T)	Liu et al. 2013	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus chinensis	EU660389	99,47	786
11	CAI-18b	<i>Rufibacter tibetensis'</i>	1351(T)	Abaydulla et al. 2011	Bacteria; Bacteroidetes; Cytophagia; Cytophagales; Hymenobacter_f; Rufibacter; Rufibacter tibetensis	EU543663	96,62	835
12	CAI-18c	<i>Brevundimonas nasdae</i>	GTC 1043 (T)	Li et al. 2004	Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacterales; Caulobacteraceae; Brevundimonas; Brevundimonas nasdae	AB071954	99,5	799
13	CAI18c2	<i>Paracoccus marcusii</i>	DSM 11574(T)	Harker et al. 1998	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus marcusii	Y12703	100	804

14	CABI-26	<i>Bacillus altitudinis</i>	41KF2b (T)	Shivaji et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus altitudinis	AJ831842	100	860
15	CABI-27A	<i>Paracoccus denitrificans</i>	DSM 413(T)	Davis 1969	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus denitrificans	CP000489	100	740
16	CABI-27B	<i>Paracoccus denitrificans</i>	DSM 413(T)	Davis 1969	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus denitrificans	CP000489	99,62	796
17	CABI-28	<i>Bacillus altitudinis</i>	41KF2b (T)	Shivaji et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus altitudinis	AJ831842	100	863
18	CABI-30	<i>Psychrobacter pulmonis</i>	CECT 5989 (T)	Vela et al. 2003	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Moraxellaceae; Psychrobacter; Psychrobacter pulmonis	AJ437696	99,75	857
19	CABI-32	<i>Paracoccus alkenifer</i>	901/1(T)	Lipski et al. 1998	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus alkenifer	Y13827	99,75	806
20	CAJI-36	<i>Sanguibacter soli</i>	DCY22(T)	Kim et al. 2008	Bacteria; Actinobacteria; Actinobacteria_c; Micrococcales; Sanguibacteraceae; Sanguibacter; Sanguibactersoli	EF547937	96,62	826
21	CAJI-39	<i>Bacillus thuringiensis</i>	ATCC 10792(T)	Berliner 1915	Bacteria, Firmicutes, Bacilli, Bacillales, Bacillaceae, Bacillus, Bacillus thuringiensis	ACNF01000156	99,88	853

22	CAI-42	<i>Jonesia denitrificans</i>	DSM 20603(T)	Recourt et al. 1987	Bacteria; Actinobacteria; Actinobacteria_c; Micrococcales; Jonesiaceae ; Jonesia; Jonesia denitrificans	CP001706	99,76	851
23	CAJI-43	<i>Bacillus safensis</i>	FO-036b(T)	Satomi et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus safensis	AF234854	99,88	869
24	CAJI-46	<i>Simplicispira psychrophila</i>	LMG 5408(T)	Grabovich et al, 2006	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Comamonadaceae; Simplicispira; Simplicispira psychrophila	AF078755	97,74	839
25	CAII-49	<i>Aequorivita viscosa</i>	8-1b(T)	Liu et al. 2013	Bacteria; Bacteroidetes; Flavobacteriia; Flavobacteriales; Flavobacteriaceae; Aequorivita; Aequorivita viscosa	HM485318	98,95	841
26	CAII-50A	<i>Bacillus stratosphericus</i>	41KF2a(T)	Shivaji et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus stratosphericus	AJ831841	99,65	862
27	CAII-50B	<i>Bacillus stratosphericus</i>	41KF2a(T)	Shivaji et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus stratosphericus	AJ831841	99,65	854
28	CAII-51	<i>Sphingopyxis italica</i>	SC13E-S71(T)	Yasir et al, (inpress)	Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingopyxis; Sphingopyxis italica	HE648058	98,35	789
29	CAII-52	<i>Eiseniicola composti</i>	YC06271(T)	Yasir et al, (inpress)	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Eiseniicola; Eiseniicola composti	FJ791048	98,33	845

30	CAII-53	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	98,82	835
31	CAII-54	<i>Eiseniicola composti</i>	YC06271(T)	Yasir et al, (inpress)	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Eiseniicola; Eiseniicola composti	FJ791048	98,33	845
32	CAII-56	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	97,6	837
33	CAII-57	<i>Bacillus mojavenensis</i>	RO-H-1(T)	Roberts et al, 1994	Bacteria, Firmicutes, Bacilli, Bacillales, Bacillaceae, Bacillus, Bacillus mojavenensis	JH600280	99,88	853
34	CAII-58B	<i>Mesorhizobium australicum</i>	WSM2073(T)	Nandasena et al, 2009	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Mesorhizobium; Mesorhizobium australicum	AGIX01000002	97,32	783
35	CAII-59A	<i>Aquamicrobium aerolatum</i>	Sa14(T)	Kampfer et al. 2009	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Aquamicrobium; Aquamicrobium aerolatum	FM210786	98,68	785
36	CAII-59B	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al, 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	98,82	836
37	CAII-60	<i>Steroidobacter denitrificans</i>	FS(T)	Fahrbach et al, 2008	Bacteria; Proteobacteria; Gammaproteobacteria; Steroidobacter_o; Steroidobacter_f; Steroidobacter; Steroidobacter denitrificans	EF605262	96,44	842

38	CAII-61	<i>Castellaniella defragrans</i>	54Pin(T)	Kampfer et al, 2006	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Castellaniella; Castellaniella defragrans	AJ005447	97,6	845
39	CAII-62A	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al, 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	99,04	835
40	CAII-62B	<i>Hyphomonas polymorpha</i>	DSM 2665(T)	Moore et al, 1984	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Hyphomonadaceae; Hyphomonas; Hyphomonas polymorpha	AJ227813	99,22	770
41	CAII-63	<i>Bacillus subtilissubsp. inaquosorum</i>	KCTC 13429(T)	Rooney et al, 2009	Bacteria, Firmicutes, Bacilli, Bacillales, Bacillaceae, Bacillus, Bacillussubtilis, Bacillus subtilissubsp. inaquosorum	AMXN01000021	99,88	854
42	CAII-64	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al, 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	98,56	835
43	CAII-66	<i>Chelatococcus asaccharovorans</i>	TE2(T)	Auling et al, 1993	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Methylobacteriaceae; Chelatococcus; Chelatococcus asaccharovorans	AJ294349	95,17	786
44	CAII-67	<i>Pusillimonas ginsengisoli</i>	DCY25(T)	Srinivasan et al, 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Pusillimonas ginsengisoli	EF672088	98,58	843
45	CAII-69	<i>Castellaniella ginsengisoli</i>	DCY36(T)	Kim et al, 2009	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Castellaniella; Castellaniella ginsengisoli	EU873313	98,34	847

46	CAII-71A	<i>Jonesia denitrificans</i>	DSM 20603(T)	Rocourt et al, 1987	Bacteria; Actinobacteria; Actinobacteria_c; Micrococcales; Jonesiaceae ;Jonesia; Jonesia denitrificans	CP001706	99,88	844
47	CAII-71B	<i>Aquamicrobium defluvii</i>	DSM 11603(T)	Bambauera tal, 1998	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Aquamicrobium; Aquamicrobium defluvii	Y15403	99,87	785
48	CGI-07	<i>Aquamicrobium aestuarii</i>	G210 (T)	Jin et al. (inpress)	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Phyllobacteriaceae; Aquamicrobium; Aquamicrobium aestuarii	GU199003	99,75	799
49	CGI-09	<i>Oxalicibacterium horti</i>	OD1(T)	Sahin et al. 2009	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Oxalicibacterium; Oxalicibacterium horti	AB469786	91,72	854
50	CGI-11	<i>Aequorivita viscosa</i>	8-1b(T)	Liu et al. 2013	Bacteria; Bacteroidetes; Flavobacteriia; Flavobacteriales; Flavobacteriaceae; Aequorivita; Aequorivita viscosa	HM485318	98,95	856
51	CGJI-18	<i>Fictibacillus phosphorivorans</i>	Ca7T (T)	Glaeser et al. 2013	Bacteria; Firmicutes; Bacilli; Bacillales; Sporolactobacillaceae; Fictibacillus; Fictibacillus phosphorivorans	JX258924	99,88	863
52	CGJI-20	<i>Bacillus subtilissubsp. inaquosorum</i>	KCTC 13429 (T)	Rooney et al. 2009	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus subtilis; Bacillus subtilissubsp. inaquosorum	AMXN01000021	99,77	865
53	CGBI-30	<i>Bacillus subtilissubsp. inaquosorum</i>	KCTC 13429(T)	Rooney et al. 2009	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus subtilis; Bacillus subtilissubsp. inaquosorum	AMXN01000021	99,77	870

54	CGBI-32	<i>Rubellimicrobium roseum</i>	YIM 48858(T)	Cao et al, 2013	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rubellimicrobium; Rubellimicrobium roseum	GU109478	98,61	793
55	CGBI-36a	<i>Bacillus altitudinis</i>	41KF2b(T)	Shivaji et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus altitudinis	AJ831842	99,65	869
56	CGBI-36b	<i>Bacillus altitudinis</i>	41KF2b(T)	Shivaji et al. 2006	Bacteria; Firmicutes; Bacilli; Bacillales; Bacillaceae; Bacillus; Bacillus altitudinis	AJ831842	100	863
57	CGBI-39	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al, 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	97,27	841
58	CGI-42	<i>Herbaspirillum massiliense'</i>	JC206(T)	Lagier et al, 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Herbaspirillum; 'Herbaspirillum massiliense'	JN657219	95,33	837
59	CGII-43	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al, 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	97,62	839
60	CGII-44	<i>Pseudomonas caeni</i>	HY-14(T)	Xiao et al, 2009	Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas; Pseudomonas caeni	EU620679	99,17	848
61	CGII-45	<i>Herbaspirillum massiliense'</i>	JC206(T)	Lagier et al, 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Oxalobacteraceae; Herbaspirillum; 'Herbaspirillum massiliense'	JN657219	95,11	841

62	CGII-47	<i>Pusillimonas harenae</i>	B201(T)	Park et al. 2011	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Pusillimonas; Pusillimonas harenae	GQ232740	96,92	843
63	CGII-49	<i>Candidimonas bauzanensis</i>	BZ59 (T)	Zhang et al. 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Candidimonas; Candidimonas bauzanensis	GQ246953	97,88	850
64	CGII-50	<i>Parapusillimonas granuli</i>	Ch07 (T)	Kim et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	99,05	853
65	CGII-53	<i>Paracoccus huijuniae</i>	FLN-7 (T)	Sun et al. 2013	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Paracoccus; Paracoccus huijuniae	EU725799	98,37	796
66	CGII-56	<i>Pusillimonas ginsengisoli</i>	DCY25(T)	Srinivasan et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Pusillimonas; Pusillimonas ginsengisoli	EF672088	98,25	858
67	CGII-57	<i>Candidimonas bauzanensis</i>	BZ59(T)	Zhang et al. 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Candidimonas; Candidimonas bauzanensis	GQ246953	97,9	857
68	CGII-58	<i>Pusillimonas ginsengisoli</i>	DCY25(T)	Srinivasan et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Pusillimonas; Pusillimonas ginsengisoli	EF672088	98,38	865
69	CGII-59	<i>Parapusillimonas granuli</i>	Ch07(T)	Kim et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	96,58	854

70	CGII-60	<i>Parapusillimonas granuli</i>	Ch07 (T)	Kim et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	98,94	849
71	CGII-61	<i>Luteimonas marina</i>	FR1330(T)	Baik et al, 2008	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Candidimonas; Candidimonas bauzanensis	EU295459	99,63	843
72	CGII-62	<i>Parapusillimonas granuli</i>	Ch07 (T)	Kim et al. 2010	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Parapusillimonas; Parapusillimonas granuli	DQ466075	98,94	850
73	CGII-64	<i>Candidimonas bauzanensis</i>	BZ59(T)	Zhang et al, 2012	Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales; Alcaligenaceae; Candidimonas; Candidimonas bauzanensis	GQ246953	98,09	845