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Köszönetnyilvánítás

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1. melléklet:

A hat baktérium 16S RNS génjeinek összehasonlítása és a szelektív primerpárok pozíciója (az egyforma színek a megfelelő baktérium-primer kombinációkat jelölik).

Enterococcus	-----AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATG	50
Lactobacillus	--TTTATATGAGAGTTTGATCCTGGCTCAGGATGAACGCTGGCGGCGTGCCTAATACATG	58
Clostridium	TTTAAATGAGAGTTTGATCCTGGCTCAGGATGAACGCTGGCGGCGTGCCTAATACATG	60
Bifidobacterium	-TTTTGTGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCCTAATACATG	59
Escherichia	----AATTGAAGAGTTTGATCATGGCTCAGATTGAACGCTGGCGGCGAGGCCTAACACATG	56
Bacteroides	-TTACAATGAAGAGTTTGATCCTGGCTCAGGATGAACGCTAGCTACAGGCTTAACACATG	59
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Enterococcus	CAAGTCGAACGCTTCTTTTTCCAC---CGGAGCTTGCTCCA---CCGGAAGAGGAG	103
Lactobacillus	CAAGTCGAACGAGTTTGGTTCGATGAACGGTGCTTGCACTGAGATTGACTTAAACGAG	118
Clostridium	CAAGTCGAGCGAT-----GAAGTTTCCTTCG-----GGAAACGGATTAG	99
Bifidobacterium	CAAGTCGAACGGGATCCAT-----CGGGCTTTGCTTGG-----TGGTGA-----GAG	101
Escherichia	CAAGTCGAACGGTAAACAG-----AAGCAGCTTGCTGCT---TTGCTGA---CGAG	101
Bacteroides	CAAGTCGAGGGGCATCAGG-----AAGAAAGCTTGCTTTC---TTTGCTGG---CGAC	106
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Enterococcus	TGGCGAACGGGTGAGTAACACGTGGGTAACCTGCCCATCAGAAGGGGATAACACTTGGAA	163
Lactobacillus	TGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCCTTAAGTGGGGGATAACATTGGAA	178
Clostridium	CGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCCTCATAGAGTGAATAGCCTTCGGAA	159
Bifidobacterium	TGGCGAACGGGTGAGTAATGCGTGACCGACCTGCCCATACACCGGAATAGCTCCTGGAA	161
Escherichia	TGGCGGACGGGTGAGTAATGTCTGGGAAAC--TGCTGATGGAGGGGATAACTACTGGAA	160
Bacteroides	CGGCGCACGGGTGAGTAACACGTATCCAACCTGCCCTTTACTCGGGGATAGCCTTTCGAA	166
	*** **	
Enterococcus	ACAGGTGCTAATACCGTATAACAATCAA---AACCGCATGGTTTTGATTTGAAAGGCGCT	220
Lactobacillus	ACAGATGCTAATACCGCATAA--ATCCAAG--AACCGCATGGTTCTTGCTGAAAGATGGC	235
Clostridium	AGGAAGATTAATACCGCATAATGTTGAAA--GATGGCATCATCATCAACCAAAGGAGCA	217
Bifidobacterium	ACGGGTGGTAATGCCGGAT--GTTCCAGTGTATCGCATGGTCTT---CTGGAAAGCT	214
Escherichia	ACGGTAGCTAATACCGCATAACGTGCGCAA--GACCAA-----GAGGGGGACC	206
Bacteroides	AGAAAGATTAATACCGATAGCATAATGAT--TCGCGCATGGTTTCATTATTAAAGGA---	221
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Enterococcus	TTCCGGGTGTC--GCTGATGGATGGACCCGCGGTGCATTAGCTAGTTGGTGAGGTAACGGC	278
Lactobacillus	GCAAGCTATC--GCTTTTGATGGACCCGCGCGTATTAGCTAGTTGGTGAGGTAACGGC	293
Clostridium	ATC-----C--GCTATGAGATGGACCCGCGCGCATTAGCTAGTTGGTGGGGTAACGGC	269
Bifidobacterium	TTCCG-----C--GGTATGGGATGGGGTTCGCTCCTATCAGCTTGACGGCGGGGTAACGGC	267
Escherichia	TTCCGGGCTCTTGCCATCGGATGTGCCCAGATGGGATTAGCTAGTAGGTGGGGTAAAGGC	266
Bacteroides	TTCC-----C--GGTAAAGGATGGGGATGCGTTCCATTAGGTTGTTGGTGAGGTAACGGC	273
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Enterococcus	TCACCAAGGCCACGATGCATAGCCGACCTGAGAGGGTGATCGGCCACATTGGGACTGAGA	338
Lactobacillus	TCACCAAGGCGATGATACGTAGCCGAACCTGAGAGGTTGATCGGCCACATTGGGACTGAGA	353
Clostridium	CTACCAAGGCGACGATGCGTAGCCGACCTGAGAGGGTGATCGGCCACATTGGGACTGAGA	329
Bifidobacterium	CCACCGTGGCTTCGACGGGTAGCCGGCTGAGAGGGCGACCGGCCACATTGGGACTGAGA	327
Escherichia	TCACCTAGGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAAGCCACACTGGAACTGAGA	326
Bacteroides	TCACCAAGCCTTCGATGGATAGGGGTTCTGAGAGGAAGGTCCCCCACATTGGAACCTGAGA	333
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Enterococcus	CACGGCCCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCGGCAATGGACGAAAGTCT	398
Lactobacillus	CACGGCCCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCAATGGACGCAAGTCT	413
Clostridium	CACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGGGAAACCT	389
Bifidobacterium	TACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGCAAGCCT	387
Escherichia	CACGTCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGCAAGCCT	386
Bacteroides	CACGGTCCAACTCCTACGGGAGGCAGCAGTGGGGAATATTGGTCAATGGGCGTAGCCT	393
	*** **	
Enterococcus	GACCGAGCAACGCCGCGTGAGTGAAGAAGTTTT--CGGATCGTAAACTCTGTTGTTAGA	457
Lactobacillus	GATGGAGCAACGCCGCGTGAGTGAAGAAGGCTTT--CGGGTCGTAAACTCTGTTGTTGGA	472
Clostridium	GATGCAGCAACGCCGCGTGAGTGAAGAAGTTTT--CGGATCGTAAAGCTCTGTCTTTGGG	448
Bifidobacterium	GATGCAGCGACGCCGCGTGAGGGATGGAGGCTTT--CGGGTTGTAAACCTCTTTTATCGGG	446
Escherichia	GATGCAGCCATGCCGCGTGATGAAGAAGGCTTT--CGGGTTGTAAAGTACTTTACGCGG	445
Bacteroides	GAACCAGCCAAGTAGCGTGAAGGATGAAGGCTCTATGGGTCGTAAACTCTTTTATATAA	453
	** **	
Enterococcus	GAAGAACAAGGATGAGAGTAAC-----TGTTTATCCCTTGACGGTATCTAACCAGAAA	510
Lactobacillus	GAAGAATGGTCGGCAGAGTAAC-----TGTTGTTCGGCGTGACGGTATCCAACCAGAAA	525
Clostridium	GAAGA-----TAA-----TGACGGTACCCCAAGGAGGAA	476
Bifidobacterium	GAGCAA-----GCGTGA-----GTGAGTTTACCGGTTGAATAA	479
Escherichia	GAGGAA-----GGGAGTAAAGTTAATACCTTTGCTCATTGACGTTACCGCAGAAAGAA	498
Bacteroides	GAATAA-----AGTGCAGTATG-----TATACTGTTTGTATGTATTATATGAATAA	500
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1. melléklet (folytatás)

Enterococcus	GCCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGA	570
Lactobacillus	GCCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTATCCGGA	585
Clostridium	GCCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCGAGCGTTATCCGGA	536
Bifidobacterium	GCACCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGCAAGCGTTATCCGGA	539
Escherichia	GCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGGTGCAGCGTTATCCGGA	558
Bacteroides	GGATCCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGATCCGAGCGTTATCCGGA	560
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Enterococcus	TTTATTGGGCGTAAAGCGAGCGCAGGCGGTTTCTTAAGTCTGATGTGAAAGCCCCCGGCT	630
Lactobacillus	TTTATTGGGCGTAAAGCGAGCGCAGGCGGTTTCTTAAGTCTGATGTGAAAGCCCCCGGCT	645
Clostridium	TTTACTGGGCGTAAAGGGAGCGTAGGCGGATGATTAAGTGGGATGTGAAATACCCGGCT	596
Bifidobacterium	ATTATTGGGCGTAAAGGGCTCGTAGGCGGTTTCGTGCGCTCCGGTGTGAAAGTCCATCGCT	599
Escherichia	ATTACTGGGCGTAAAGCGCAGCAGGCGGTTTGTTAAGTCAGATGTGAAATACCCGGGCT	618
Bacteroides	TTTATTGGGTTTAAAGGGAGCGTAGGTGGACTGGTAAAGTCAGTTGTGAAAGTTTTCGGCT	620
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Enterococcus	CAACCGGGGAGGGTCATTGGAACTGGGAGACTTGAGTGCAGAAGAGGAGAGTGGAATTC	690
Lactobacillus	TAACCGAGGAAGCGCATCGGAACTGGGAACTTGAGTGCAGAAGAGGACAGTGGAATTC	705
Clostridium	CAACTTGGGTGCTGCATTGCAAACTGGGTTATCTAGAGTGCAGGAGGAGGATGGAATTC	656
Bifidobacterium	TAACGGTGGATCCGCGCCGGGTACGGCGGGCTTGAGTGCAGGTAGGGGAGACTGGAATTC	659
Escherichia	CAACCTGGGAACCTGCATCTGATACTGGCAAGCTTGAGTCTCGTAGAGGGGGTAGAATTC	678
Bacteroides	CAACCGTAAATATGCACTGATGATCTGATCTTGAAGTACAGTAGAGGTGGGCGGAATTC	680
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Enterococcus	CATGTGTAGCGGTGAAATGCGTAGATATATGGAGGAACACCAGTGGCGAAGGCGGCTCTC	750
Lactobacillus	CATGTGTAGCGGTGAAATGCGTAGATATATGGAGGAACACCAGTGGCGAAGGCGGCTCTC	765
Clostridium	CTAGTGTAGCGGTGAAATGCGTAGAGATTAGGAAGAACACCAGTGGCGAAGGCGACTCTC	716
Bifidobacterium	CCGGTGTAAACGGTGAATGTGTAGATATCGGGAAGAACACCAATGGCGAAGGCGAGTCTC	719
Escherichia	CAGGTGTAGCGGTGAAATGCGTAGAGATCTGGAGGAATACCGGTGGCGAAGGCGGCCCC	738
Bacteroides	GTGGTGTAGCGGTGAAATGCTTAGATATCACGAAGAAGTCCGATTGCGAAGGCGAGCTCAC	740
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Enterococcus	TGGTCTGTAAGTACGCTGAGGCTCGAAAGCGTGGGGAGCAAACAGGATTAGATACCCCTG	810
Lactobacillus	TGGTCTGTAAGTACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCCTG	825
Clostridium	TGGACTGTAAGTACGCTGAGGCTCGAAAGCGTGGGGAGCAAACAGGATTAGATACCCCTG	776
Bifidobacterium	TGGGCCGTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCCTG	779
Escherichia	TGGACGAAGACTGACGCTCAGGTGCGAAAGCGTGGGGAGCAAACAGGATTAGATACCCCTG	798
Bacteroides	TGGACTGCAACTGCACTGATGCTCGAAAGTGTGGGTATCAAACAGGATTAGATACCCCTG	800
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Enterococcus	GTAGTCCACGCCGTAAACGATGAGTGCTAAGTGTGGAGG--GTTTCCGCCCTTCAGTG	867
Lactobacillus	GTAGTCCATGCCGTAAACGATGAATGCTAGGTGTGGAGG--GTTTCCGCCCTTCAGTG	882
Clostridium	GTAGTCCACGCCGTAAACGATGAATACTAGGTGT--GGGG--GTTTCAACACCTCCGCTG	831
Bifidobacterium	GTAGTCCACGCCGTAAACGATGCTGATGT--GGGGCCCGTCCACGGGTTCCGCTG	837
Escherichia	GTAGTCCACGCCGTAAACGATGTCGACTTGGAGGTGTGTC---CCTTGAGGCGTGGCTT	854
Bacteroides	GTAGTCCACACAGTAAACGATGAATACTCGCTGTTGCGA-----TATACAGTAAGCG	853
	***** * ***** ** ** * * *	
Enterococcus	CTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAA	927
Lactobacillus	CCGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAA	942
Clostridium	CCGCCGCTAACGCATTAAGTATTCGCCCTGGGGAGTACGCTCGCAAGATTAAACTCAAA	891
Bifidobacterium	TCCGAGCTAACGCGTTAAGCATCCCGCTGGGGAGTACGCGCGCAAGGCTAAACTCAAA	897
Escherichia	CCGGAGCTAACGCGTTAAGTCGACCGCTGGGGAGTACGCGCGCAAGGTTAAACTCAAA	914
Bacteroides	GCCAAGCGAAAGCATTAAGTATTCACCTGGGGAGTACGCGCGCAACGGTAAACTCAAA	913
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Enterococcus	GGAATTGACGGGGGCCCCGACAAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAA	987
Lactobacillus	GGAATTGACGGGGGCCCCGACAAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAA	1002
Clostridium	GGAATTGACGGGGACCCGACAAAGTAGCGGAGCATGTGGTTTAATTCGAAGCAACGCGAA	951
Bifidobacterium	GAAATTGACGGGGCCCCGACAAAGCGCGGAGCATGCGGATTAATTCGATGCAACGCGAA	957
Escherichia	TGAATTGACGGGGGCCCCGACAAAGCGGTGGAGCATGTGGTTTAATTCGATGCAACGCGAA	974
Bacteroides	GGAATTGACGGGGGCCCCGACAAAGCGGAGGAACATGTGGTTTAATTCGATGATACGCGAG	973
	***** ***** * ** ** * ***** * *****	
Enterococcus	GAACCTTACCAGGTCTTGACATCCTTTG-ACCACTCTAGA--GATAGAGCTTCCCCTTCG	1044
Lactobacillus	GAACCTTACCAGGTCTTGACATCCTTTG-ATCACCTGAGA--GATCAGGTTTCCCCTTCG	1059
Clostridium	GAACCTTACCTACACTTGACATCCTTTGACATTACTCTTAATTCGAGGAAAT--CCCTTCG	1008
Bifidobacterium	GAACCTTACCTGGGCTTGACATGTTCCCGACGATCCCAGA--GATGGGTTT-CCCTTCG	1014
Escherichia	GAACCTTACCTGGTCTTGACATCCACGG-AAGTTTTCAGA--GATGAGAATGTGCCTTCG	1031
Bacteroides	GAACCTTACCCGGGCTTAAATTGCAGTGGAAATGATGTGGAACATGTCAGTGAGCAATC-	1032
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1. melléklet (folytatás)

Enterococcus	GGGGCAAAGTGACAGGTGGTGCATGGTTGTCGTCAGCTCGTGTCTGAGATGTTGGGTTA	1104
Lactobacillus	GGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCAGCTCGTGTCTGAGATGTTGGGTTA	1119
Clostridium	GGGACAAGGTGACAGGTGGTGCATGGTTGTCGTCAGCTCGTGTCTGAGATGTTGGGTTA	1068
Bifidobacterium	GGG-CGGGTTCACAGGTGGTGCATGGTTCGTCGTCAGCTCGTGTCTGAGATGTTGGGTTA	1073
Escherichia	GGAACCGTGACAGGTGCTGCATGGCTGTCGTCAGCTCGTGTGTAATGTTGGGTTA	1091
Bacteroides	--ACCGTGTGA-AGGTGCTGCATGGTTGTCGTCAGCTCGTGCCGTGAGGTGTCGGCTTA	1089
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Enterococcus	AGTCCCGCAACGAGCGCAACCCCTTATGTTAGTTGCCATC--ATTGAGTTGGGCACTCTA	1162
Lactobacillus	AGTCCCGCAACGAGCGCAACCCCTTATGACTAGTTGCCAGC--ATTGAGTTGGGCACTCTA	1177
Clostridium	AGTCCCGCAACGAGCGCAACCCCTTGTCTAGTTACTACC--ATTAAGTTGAGGACTCTA	1126
Bifidobacterium	AGTCCCGCAACGAGCGCAACCCCTCGCCCCGTGTTGCCAGCGGATTGTGCCGGGAACCTAC	1133
Escherichia	AGTCCCGCAACGAGCGCAACCCCTTATCCTTGTGTCAGCG-GTCCGGCCGGGAACCTCAA	1150
Bacteroides	AGTGCCATAACGAGCGCAACCCCTTATCTTCAGTTACTAACAGGTCATGCTGAGGACTCTG	1149
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Enterococcus	GCAAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAATCATCATGCCCT	1222
Lactobacillus	GTAAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAATCATCATGCCCT	1237
Clostridium	CCGAGACTGCCTGGGTTAACCAGGAGGAAGGTGGGGATGACGTCAAATCATCATGCCCT	1186
Bifidobacterium	GGGGGACCGCCGGGTTAACTCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCT	1193
Escherichia	AGGAGACTGCCAGTGATAAACTGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCT	1210
Bacteroides	GAGAGACTGCCGTGTAAGATGTGAGGAAGGTGGGGATGACGTCAAATCAGCAGGCCCT	1209
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Enterococcus	TATGACCTGGGCTACACACGTGCTACAATGGGAAGTACAACGAGTCGCGAAGTCGCGAGG	1282
Lactobacillus	TATGACCTGGGCTACACACGTGCTACAATGGATGGTACAACGAGTTGCGAGACCGCGAGG	1297
Clostridium	TATGTGTAGGGCTACACACGTGCTACAATGGCTGGTACAGAGAGATGCAATACCGCGAGG	1246
Bifidobacterium	TACGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAACGGGATGCGACGCGGCGAGC	1253
Escherichia	TACGACCAGGGCTACACACGTGCTACAATGGCGCATAAAAGAGAAGCGACCTCGCGAGA	1270
Bacteroides	TACGTCCGGGGCTACACACGTGTTACAATGGGGGGTACAGAAGGCAGCTAGCGGGTGACC	1269
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Enterococcus	CTAAGCTAATCTCTTAAAGCTTCTCTCAGTTCGGATTGCAGGCTGCAACTCGCCTGCATG	1342
Lactobacillus	TCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACG	1357
Clostridium	TGGAGCCAAACT-TAAAAACCACTCTCAGTTCGGATTGTAGGCTGAAACTCGCCTACATG	1305
Bifidobacterium	CGGAGCGGATCCCTGAAAACCGGCTCAGTTCGGATCGCAGTCTGCAACTCGACTCGCTG	1313
Escherichia	GCAAGCGGACCTCATAAAGTGCGTCGTAGTCCGGATTGGAGTCTGCAACTCGACTCCATG	1330
Bacteroides	GTATGCTAATCCC-AAAATCCTCTCTCAGTTCGGATCGAAGTCTGCAACCCGACTTCGTG	1328
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Enterococcus	AAGCCGGAATCGCTAGTAATCGCGGATCAGCA-CGCCGCGGTGAATACGTTCCCGGGCCT	1401
Lactobacillus	AAGTCGGAATCGCTAGTAATCGCGGATCAGCA-CGCCGCGGTGAATACGTTCCCGGGCCT	1416
Clostridium	AAGCTGGAGTTACTAGTAATCGCGAATCAGAA-TGTCGCGGTGAATACGTTCCCGGGTCT	1364
Bifidobacterium	AAGCGGAGTCCCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCTCCGGCCT	1373
Escherichia	AAGTCGGAATCGCTAGTAATCGTGGATCAGAA-TGCCACGGTGAATACGTTCCCGGGCCT	1389
Bacteroides	AAGCTGGATTTCGCTAGTAATCGCGCATCAGCCACGGCGCGGTGAATACGTTCCCGGGCCT	1388
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Enterococcus	TGTACACACCGCCCGTCACACCACGAGAGTTTGTAAACACCCGAAGTCGGTGAGGTAACCT	1461
Lactobacillus	TGTACACACCGCCCGTCACACCATGAGAGTTTGTAAACACCCGAAGCCGGTGGCGTAACCC	1476
Clostridium	TGTACACACCGCCCGTCACACCATGAGAGTTGGCAATACCCGAAGTCGGTGAGCTAACCG	1424
Bifidobacterium	TGTACACACCGCCCGTCAAGTCATGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTAACCC	1433
Escherichia	TGTACACACCGCCCGTCACACCATGGGAGTGGGTGCAAAAGAAGTAGGTAGCTTAACCT	1449
Bacteroides	TGTACACACCGCCCGTCAAGCCATGGGAGCCGGGGTACCTGAAGT-----ACGTAACCG	1443
	***** ** * * *	
Enterococcus	TTT---GGAGCCAGCCGCTAAGGTGGGATAGATGATTGGGGTGAAGTCGTAACAAGGTA	1518
Lactobacillus	TTTtagggagcgagccgtctaagggtgggacaaatgattaggggtgaagtcgtaacaaggta	1536
Clostridium	C---AAGGAGGACGCGGCCGAAGGTAGGGTCAGCGATTGGGGTGAAGTCGTAACAAGGTA	1481
Bifidobacterium	CTTGTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGTCGTAACAAGGTA	1493
Escherichia	TC---GGGAGGGCGCTTACCACCTTTGTGATTTCATGACTGGGGTGAAGTCGTAACAAGGTA	1506
Bacteroides	C-----AAGGATCGTCTAGGGTAAACTGGTGACTGGGGCTAAGTCGTAACAAGGTA	1496
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Enterococcus	GCCGTATCAGAAGGTGCGGCTGGATCACCT-----	1548
Lactobacillus	GCCGTAGGAGAACCTGCGGCTGGATCACCTCCTTTCTA-----	1574
Clostridium	GCCGTAGGAGAACCTGCGGCTGGATCACCTCCTTTCT-----	1518
Bifidobacterium	GCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTTCTACGGAGA	1537
Escherichia	ACCGTAGGGAACCTGCGGCTGGATCACCTCCTTA-----	1541
Bacteroides	GCCGTACCGGAAGGTGCGGCTGGAACACCTCCTTTCT-----	1533
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Tételes szerzői hozzájárulás

Alulírott, **Szabó Lilla** biológia BSc szakos, III. évfolyamos hallgató, a „*Vastagbél mikrobiota összetételének és stabilitásának nyomon követése humán emésztési modellben mikrobiológiai és molekuláris biológiai módszerekkel*” című dolgozatban leírt munkafolyamatok közül a:

- az emésztés *in vitro* modellezését,
 - a baktériumok tenyésztését és a vastagbél mikrobiota modellezését,
 - genomi DNS izolálást többféle módszerrel,
 - PCR és qPCR reakciót,
 - PCR termékek elválasztását agaróz gélelektroforézissel,
 - PCR termék tisztítását,
 - PCR termékek klónozását és plazmid izolálást,
 - primerek tervezését,
 - szekvenciák elemzését, összehasonlítását
- végeztem el.

Eger, 2015. január 7.

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aláírás