

BLAST ASSIGNMENT

Assigned OTUs: 301-310

Lines in fasta. : 601-620

Otu #	Taxonomy	Score(Bits)	E value	Reasoning
Otu00301	<i>Eubacterium coprostanoligenes</i>	346	3.3E-95	This is the best BLAST hit because it had the highest score and the lowest E value. The high score corresponds to the quality of the alignment between the query sequences and the BLAST hit. Higher the score, the better the hit. The E value shows the probability of the BLAST hit occurring by chance and not showing significance. Thus, the lower the E value, the more significant the score. (Strain HL)
Otu00302	<i>Parabacteroides johnsonii</i> <i>Parabacteroides merdae</i>	407	1E-113	The two species of bacteria had the same score and the E value, so only the <i>Parabacteroides</i> genus could be determined. Otherwise, these are the best BLAST hits because they had the highest scores and the lowest E values.
Otu00303	<i>Blastopirellula marina</i>	233	3E-61	This is the best BLAST hit because it had the highest score and the lowest E value. (Strain DSM 3645)
Otu00304	****No Hits Found****	-	-	The genus and the species could not be determined. The bacterial sequences that produced significant alignments could not be found. (Not in the database)
Otu00305	<i>Prevotella copri</i>	357	2E-98	This is the best BLAST hit because it had the highest score and the lowest E value. Two strains of the bacteria, JCM 13464 and CB7 shared the same score and the E value. Longer query sequences may be needed to tell the strains apart from each other.
Otu00306	<i>Ethanoligenens harbinense</i>	329	3E-90	This is the best BLAST hit because it had the highest score and the lowest E value. (Strain YUAN-3)
Otu00307	<i>Prevotella buccae</i>	244	1E-64	This is the best BLAST hit because it had the highest score and the lowest E value. (Strain JCM 12245)
Otu00308	<i>Bacillus massilioanorexius</i>	468	7E-132	This is the best BLAST hit because it had the highest score and the lowest E value. (Strain AP8)
Otu00309	<i>Muribaculum intestinale</i>	283	3E-76	This is the best BLAST hit because it had the highest score and the lowest E value. (Strain YL27)
Otu00310	<i>Paraprevotella clara</i>	278	1E-74	This is the best BLAST hit because it had the highest score and the lowest E value. The strains JCM 14859 and YIT 11840 had equal scores and E values. Longer query sequences may be needed to tell the strains apart from each other.