

GROOLS: reactive graph reasoning for genome annotation through biological processes - Supplementary Data 1

Prediction accuracy for pathways (PWY) and functional units (FU) in 14 organisms

Organisms (UniProtKB proteome)		Genome Properties: UniProtKB annotations, falsehood mode					UniPathway: MicroScope annotations, specific mode				
		TP	TN	FP	FN	ACC	TP	TN	FP	FN	ACC
Acinetobacter baylyi ADP1 (UP000000430)	PWY	13	8	4	2	77.78%	21	10	5	3	79.49%
	FU	75	104	14	3	91.33%	272	35	0	7	97.77%
Pseudomonas putida KT2440 (UP000000556)	PWY	17	6	4	2	79.31%	28	9	5	10	71.15%
	FU	96	55	6	3	94.38%	222	35	2	19	92.45%
Escherichia coli K-12 (UP000000625)	PWY	18	4	5	1	78.57%	27	6	2	9	75.00%
	FU	138	47	10	1	94.39%	111	17	5	15	86.49%
Delftia acidovorans DSM14801 (UP000000784)	PWY	16	6	3	2	81.48%	27	10	4	5	80.43%
	FU	105	35	3	7	93.33%	96	34	7	25	80.25%
Agrobacterium tumefaciens C58 (UP000000813)	PWY	17	3	3	6	68.97%	25	2	2	12	65.85%
	FU	100	25	6	56	66.84%	146	3	2	37	79.26%
Pedobacter heparinus DSM2366 (UP000000852)	PWY	8	7	1	9	60.00%	18	12	8	6	68.18%
	FU	62	51	2	103	51.83%	68	51	19	32	70.00%
Roseobacter litoralis DSM6996 (UP000001353)	PWY	11	3	3	4	66.67%	20	4	3	1	85.71%
	FU	69	29	3	10	88.29%	77	9	6	16	79.63%
Bacillus subtilis 168 (UP000001570)	PWY	18	4	3	1	84.62%	23	6	5	4	76.32%
	FU	130	33	10	1	93.68%	296	26	0	18	94.71%
Sphingomonas wittichii DSM6014 (UP000001989)	PWY	12	4	6	5	59.26%	22	11	9	5	70.21%
	FU	85	94	9	12	89.50%	87	59	14	12	84.88%
Spirosoma linguale DSM74 (UP000002028)	PWY	10	6	4	8	57.14%	18	11	5	4	76.32%
	FU	64	54	6	84	56.73%	66	36	9	12	82.93%
Chitinophaga pinensis DSM2588 (UP000002215)	PWY	9	4	4	8	52.00%	18	12	10	5	66.67%
	FU	62	40	15	49	61.45%	69	51	26	28	68.97%
Pseudomonas aeruginosa PAO1 (UP000002438)	PWY	18	3	3	4	75.00%	27	8	3	5	81.40%
	FU	130	29	3	5	95.21%	108	27	5	17	85.99%
Kytococcus sedentarius DSM20547 (UP000006666)	PWY	3	5	5	12	32.00%	15	16	7	9	65.96%
	FU	39	90	14	61	63.24%	47	69	19	44	64.80%
Salmonella typhimurium SL1344 (UP000008962)	PWY	14	3	5	1	73.91%	21	13	9	2	75.56%
	FU	81	24	16	1	86.07%	77	52	26	1	82.69%