

Supplementary Files

Nevirapine induced mitochondrial dysfunction in HepG2 cells

Atchara Paemanee^{a,b}, Wannapa Sornjai^a, Suthathip Kittisenachai^b, Naraporn Sirinonthanawech^a, Sittiruk Roytrakul^b, Jeerang Wongtrakul^{c*}, Duncan R. Smith^{a,*}

^aInstitute of Molecular Biosciences, Mahidol University, Bangkok, Thailand

^bGenome Technology Research Unit, National Center for Genetic Engineering and Biotechnology, National Science and Technology Development Agency, Pathumthani, Thailand

^cResearch Institute for Health Sciences, Chiang Mai University, Chiang Mai, Thailand

* Address correspondence to either:

Duncan R. Smith, duncan.smi@mahidol.ac.th; duncan_r_smith@hotmail.com

or

Jeerang Wongtrakul, jeerang@gmail.com

Supplemental File S1: Full list of annotation clusters identified by DAVID

Supplemental File S2: Full list of cellular components identified by PANTHER

Functional Annotation Clustering

[Help and Manual](#)

Current Gene List: List_2

Current Background: Homo sapiens

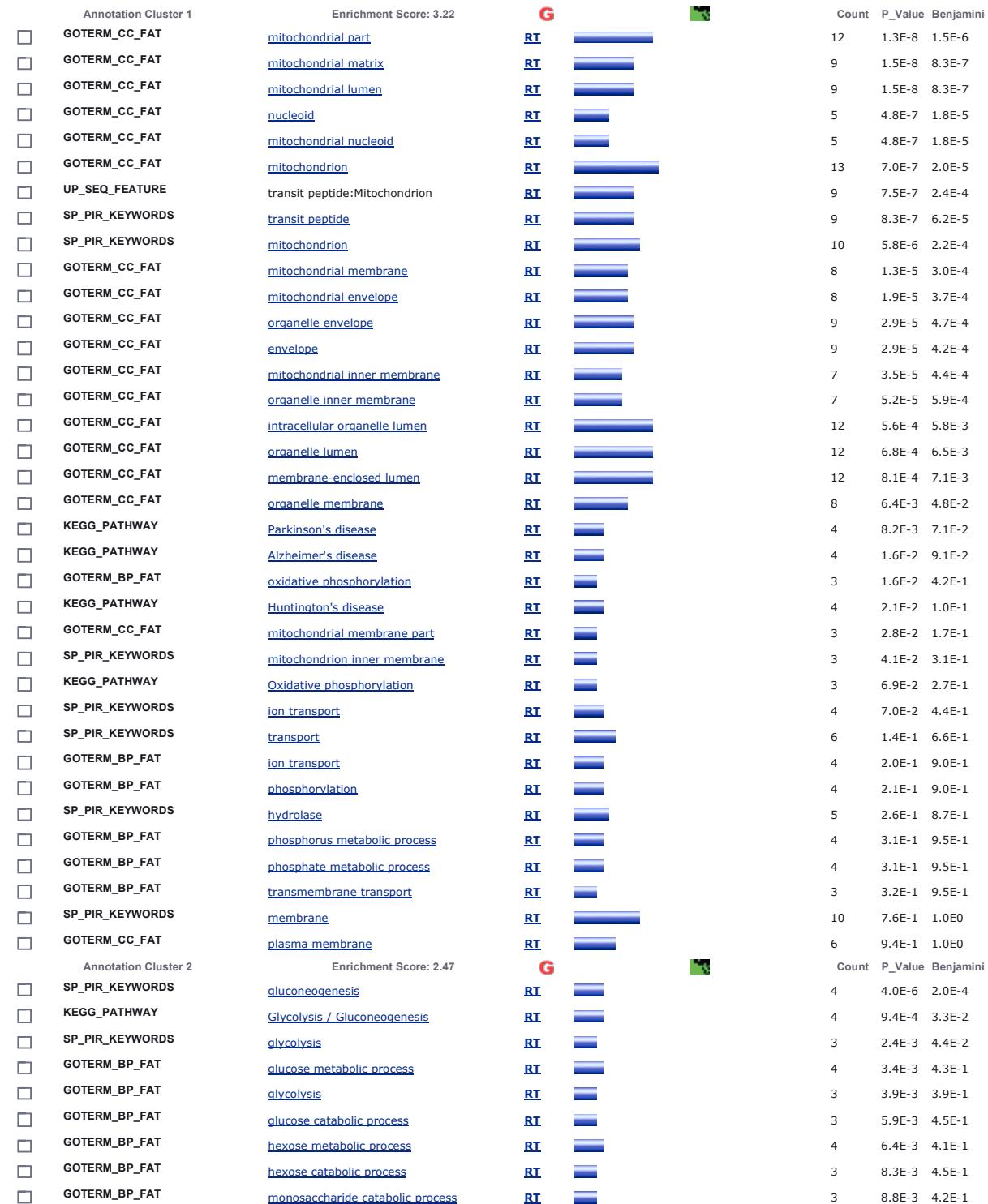
33 DAVID IDs

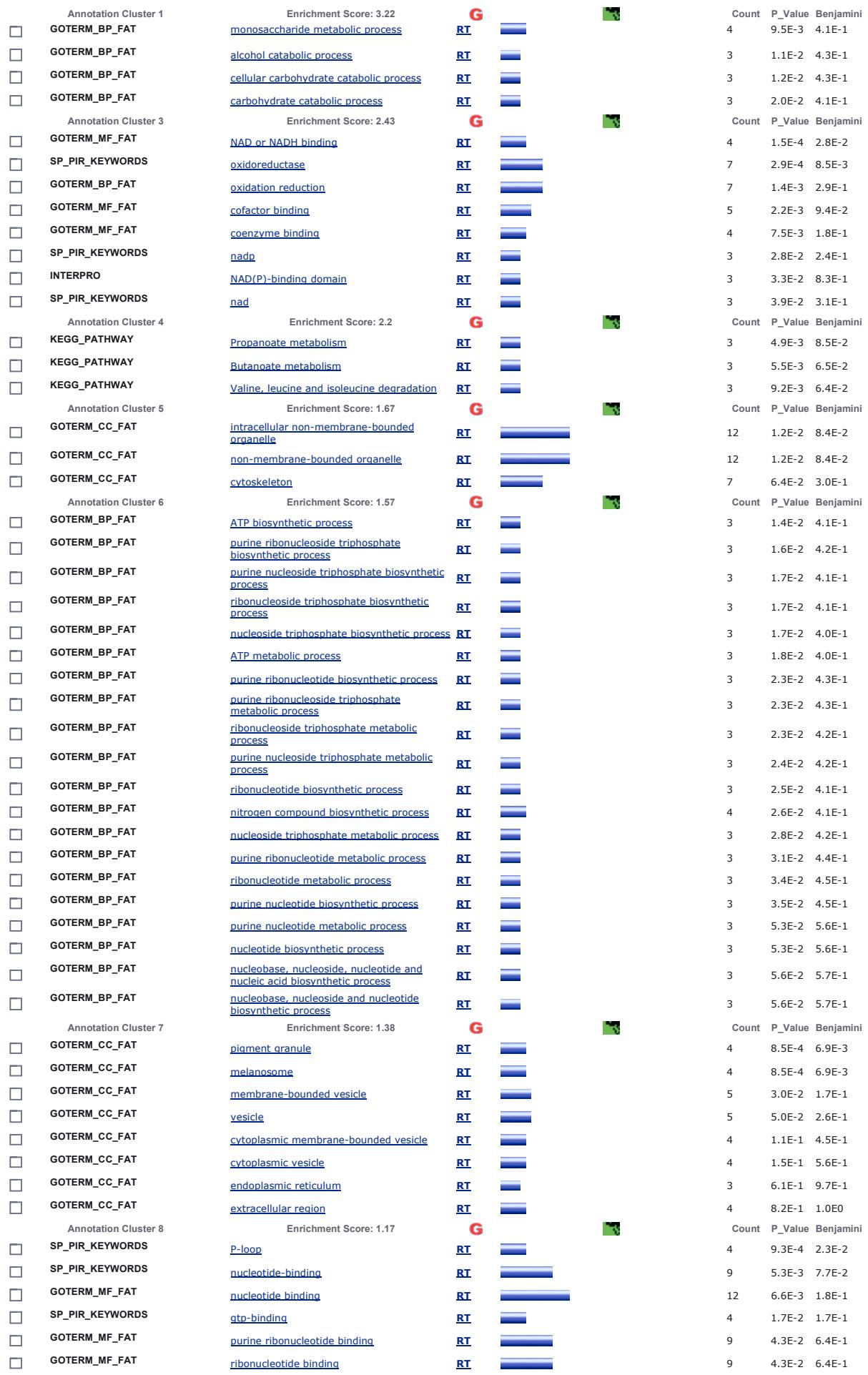
Options Classification Stringency Medium

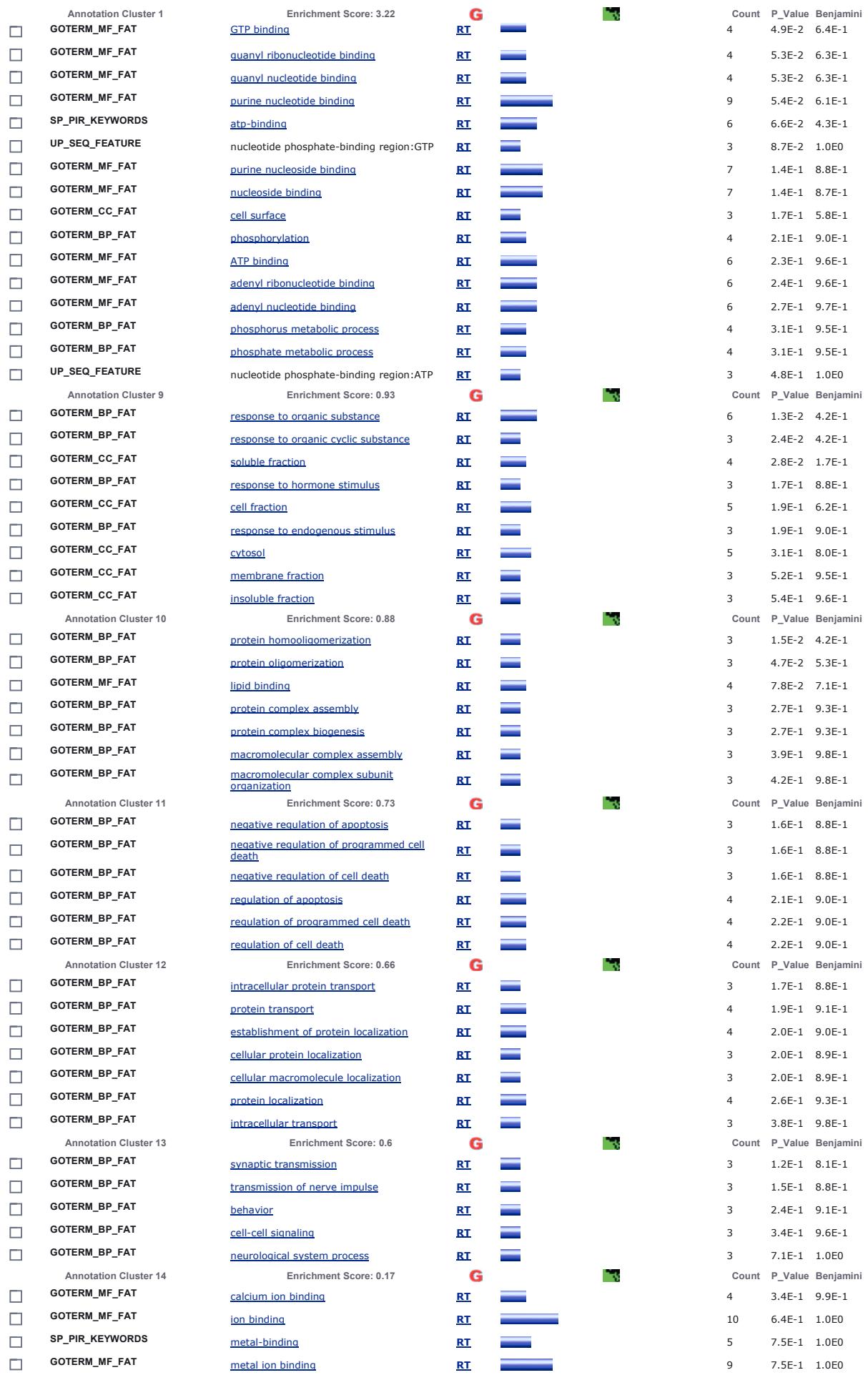
[Rerun using options](#)

[Create Sublist](#)

15 Cluster(s)









42 terms were not clustered.

Analysis Summary: Please report in publication [?](#)

Analysis Type: PANTHER Overrepresentation Test (release 20160715)

Annotation Version and Release Date: GO Ontology database Released 2016-11-30

Analyzed List: upload_1 (Homo sapiens) [Change](#)

Reference List: Homo sapiens (all genes in database) [Change](#)

Annotation Data Set: GO cellular component complete [▼](#)

Use the Bonferroni correction for multiple testing [?](#)

Results [?](#)

	Reference list	upload_1
Mapped IDs:	20972 out of 20972	33 out of 36
Unmapped IDs:	0	0
Multiple mapping information:	0	3

Bonferroni count: 1304

[Export results](#)

Displaying only results with P<0.05; [click here to display all results](#)

	Homo sapiens (REF)	upload_1 (▼ Hierarchy NEW! ?)				
	#	#	expected	Fold Enrichment	+/-	P value
GO cellular component complete	45	5	.08	64.73	+	2.12E-05
↳ organelle	13117	35	22.52	1.55	+	1.35E-03
↳ mitochondrion	1725	14	2.96	4.73	+	5.58E-04
↳ cytoplasmic part	8168	30	14.02	2.14	+	7.74E-05
↳ cytoplasm	10829	32	18.59	1.72	+	3.13E-03
↳ membrane-bound organelle	12169	34	20.89	1.63	+	1.44E-03
↳ nucleoid	47	5	.08	61.97	+	2.62E-05
↳ mitochondrial part	1002	11	1.72	6.40	+	7.61E-04
↳ mitochondrial matrix	428	9	.73	12.25	+	4.58E-05
myelin sheath	179	9	.31	29.29	+	2.40E-08
mitochondrial inner membrane	505	8	.87	9.23	+	2.44E-03
↳ mitochondrial membrane	700	8	1.20	6.66	+	2.63E-02
↳ mitochondrial envelope	741	8	1.27	6.29	+	3.94E-02
↳ organelle envelope	1155	11	1.98	5.55	+	3.05E-03
↳ envelope	1161	11	1.99	5.52	+	3.21E-03
↳ organelle inner membrane	563	8	.97	8.28	+	5.43E-03

<u>extracellular matrix</u>	<u>522</u>	<u>8</u>	.90	8.93	+	3.11E-03
↳ <u>extracellular region part</u>	<u>3841</u>	<u>28</u>	6.59	4.25	+	1.90E-11
↳ <u>extracellular region</u>	<u>4564</u>	<u>29</u>	7.83	3.70	+	1.30E-10
<u>adherens junction</u>	<u>684</u>	<u>8</u>	1.17	6.81	+	2.23E-02
↳ <u>anchoring junction</u>	<u>702</u>	<u>8</u>	1.21	6.64	+	2.68E-02
<u>extracellular exosome</u>	<u>2750</u>	<u>26</u>	4.72	5.51	+	9.88E-13
↳ <u>extracellular vesicle</u>	<u>2764</u>	<u>26</u>	4.74	5.48	+	1.12E-12
↳ <u>vesicle</u>	<u>4051</u>	<u>27</u>	6.95	3.88	+	1.01E-09
↳ <u>extracellular organelle</u>	<u>2765</u>	<u>26</u>	4.75	5.48	+	1.13E-12