Table A-3: Mean length of orthologous and orphan proteins in 11 microsporidia.

Taxon	Mean length of	Mean length of	Wilcoxon-Mann-
	orthologous proteins	orphans	Whitney P_value
E.hellem	358,507	305,250	0,1966
E.intestinallis	358,931	174,630	9,11E-07
E.cuniculi	368,688	187,100	1,14E-10
N.ceranae	339,184	279,514	2,32E-09
E.bieneusi	274,151	182,634	p < 2,2E-16
V.corneae	330,872	283,743	5,05E-08
A.algerae	284,651	223,355	p < 2,2E-16
A.locustae	295,033	157,594	p < 2,2E-16
E.aedis	380,879	319,525	p < 2,2E-16
V.culicis	370,504	294,433	p < 2,2E-16
N.parisii	421,400	302,794	p < 2,2E-16

Table A-4: GO term annotation for 42 microsporidia specific proteins using Blast2GO.

LCA protein	GO number	Description	
OG_1087	P:GO:0017183	P:peptidyl-diphthamide biosynthetic process	
		from peptidyl-histidine	
OG_1182	C:GO:0016021	C:integral component of membrane	
OG_1323	F:GO:0008080	F:N-acetyltransferase activity	
OG_1327	C:GO:0005643	C:nuclear pore	
OG_1327	P:GO:0016973	P:poly(A)+ mRNA export from nucleus	
OG_1349	C:GO:0016020	C:membrane	
OG_1349	P:GO:0016192	P:vesicle-mediated transport	
OG_1378	F:GO:0005515	F:protein binding	
OG_1515	F:GO:0004672	F:protein kinase activity	
OG_1515	F:GO:0005524	F:ATP binding	