***Supplemental Information***

**A Comparative in-silico analysis of autophagy proteins in ciliates**

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**Table S1**. **List of accession numbers of autophagy proteins in ciliates**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proteins | *Tetrahymena*  *thermophila* | *Paramecium tetraurelia* | *Oxytricha trifallax* | *Ichthyophthirius multifiliis* | *Stylonychia lemnae* |
| Atg1  Atg2  Atg3  Atg4  Atg5  Atg6  Atg7  Atg8  Atg9  Atg10  Atg11  Atg12  Atg13  Atg14  Atg15  Atg16  Atg16L  Atg18  Vps15  Vps34  Vmp-1  UVRAG | nd  nd  TTHERM\_01050620  TTHERM\_00012980  TTHERM\_00622890  TTHERM\_00011010  TTHERM\_00526270  TTHERM\_00622880  TTHERM\_00011020  TTHERM\_00494030  TTHERM\_000455639  TTHERM\_00138370  TTHERM\_00522490  TTHERM\_00037460  TTHERM\_000780499  nd  TTHERM\_01016200  nd  nd  nd  nd  TTHERM\_00691620  nd  nd  TTHERM\_00614790  TTHERM\_00577340  TTHERM\_00543659  TTHERM\_00649380  TTHERM\_00628720  nd | nd  nd  GSPATT00018613001  GSPATT00000653001  GSPATT00032381001  GSPATT00027262001  GSPATT00009966001  GSPATT00016554001  GSPATT00003976001  GSPATT00007114001  GSPATT00029795001  GSPATT00039312001  GSPATT00000189001  GSPATT00008726001  GSPATT00037390001  GSPATT00008226001  GSPATT00012815001  GSPATT00013195001  GSPATT00019394001  GSPATT00019297001  GSPATT00015805001  GSPATT00027839001  GSPATT00002599001  GSPATT00039589001  GSPATT00001448001  GSPATT00022734001  GSPATT00015140001  GSPATT00002727001  GSPATT00001312001  GSPATT00037476001  GSPATT00029699001  GSPATT00004799001  GSPATT00007583001  GSPATT00033828001  GSPATT00011139001  GSPATT00031859001  GSPATT00028409001  GSPATT00020835001  GSPATT00037728001  GSPATT00004842001  GSPATT00016042001  GSPATT00009773001  nd  nd  nd  nd  nd  nd  GSPATT00021619001  GSPATT00027425001  nd  nd  GSPATT00022741001  GSPATT00029706001  GSPATT00038932001  GSPATT00026656001  GSPATT00022039001  GSPATT00034458001  GSPATT00031445001  nd | nd  nd  OXYTRI\_06717  OXYTRI\_00763  OXYTRI\_06906  OXYTRI\_20407  OXYTRI\_17161  OXYTRI\_01553  OXYTRI\_23932  OXYTRI\_18949  OXYTRI\_17764  OXYTRI\_06903  OXYTRI\_24789  OXYTRI\_03397  OXYTRI\_04222  OXYTRI\_02617  OXYTRI\_06951  nd  nd  nd  OXYTRI\_18637  nd  nd  nd  nd  OXYTRI\_20923  OXYTRI\_00719  OXYTRI\_14811  OXYTRI\_14403  OXYTRI\_14036  OXYTRI\_18883  OXYTRI\_23250  OXYTRI\_00310  OXYTRI\_13489 | nd  nd  IMG5\_148300  IMG5\_143150  IMG5\_021070  IMG5\_195560  IMG5\_027770  nd  IMG5\_184550  nd  nd  nd  nd  nd  nd  nd  nd  nd  nd  nd  IMG5\_194800  IMG5\_142140  nd  IMG5\_193880  IMG5\_198170  IMG5\_083720  nd | nd  nd  STYLEM\_5006  STYLEM\_548  STYLEM\_8437  STYLEM\_6052  STYLEM\_7592  STYLEM\_8080  STYLEM\_127  STYLEM\_8328  STYLEM\_1555  STYLEM\_17224  STYLEM\_3514  STYLEM\_13036  nd  nd  nd  nd  nd  nd  nd  nd  nd  STYLEM\_5216  STYLEM\_15702  STYLEM\_6597  STYLEM\_15893  STYLEM\_561  STYLEM\_20251  STYLEM\_9113  nd |
|  |  |  |  |  |  |

nd: not determined