

|                                           | 10 |   |   |   |   |   |   |   |   |   | 20 |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <i>Phytomonas_serpens</i> /339-362        | L  | A | C | L | I | L | C | I | G | S | I  | P | I | T | F | G | F | F | L | K | T | F | G | L |
| <i>Leishmania_tarentolae</i> /341-364     | I  | A | C | I | F | L | C | I | G | S | I  | P | I | V | F | G | F | F | L | K | V | F | C | L |
| <i>Trypanosoma.sp.</i> /1-18              | -  | - | - | - | - | - | - | C | I | G | A  | I | P | I | V | F | G | F | F | L | K | V | F | C |
| <i>Blastocrithidia_culicis</i> /1-18      | -  | - | - | - | - | - | - | C | I | G | A  | I | P | I | V | F | G | F | F | I | K | V | F | C |
| <i>Trypanosoma_brucei</i> /343-366        | L  | A | C | L | F | L | C | I | G | A | I  | P | I | V | F | G | F | F | I | K | V | F | C | L |
| <i>Dictyostelium_discoideum</i> /380-403  | L  | I | I | V | L | I | I | Y | L | A | G  | L | P | P | F | T | N | F | I | S | K | I | I | L |
| <i>Naegleria_gruberi</i> /385-408         | I  | V | L | F | F | F | G | V | A | G | L  | P | P | F | P | S | F | L | A | K | L | Y | L | L |
| <i>Pedinomonas_minor</i> /334-357         | L  | L | G | I | I | M | I | I | I | G | L  | P | I | I | S | G | F | F | G | K | L | I | F | Y |
| <i>Scenedesmus_obliquus</i> /450-473      | W  | R | V | F | M | T | S | L | A | G | L  | P | P | V | Y | G | F | L | G | K | A | G | I | L |
| <i>Tetrahymena_pyriformis</i> /66-89      | L  | I | F | S | L | L | S | M | A | G | I  | P | P | L | L | G | F | T | G | K | F | I | A | I |
| <i>Polytomella_parva</i> /284-307         | S  | A | I | S | V | A | S | I | A | G | L  | P | P | F | L | G | F | I | G | K | A | Q | I | L |
| <i>Paramecium_aurelia</i> /85-108         | V  | L | I | F | F | L | N | L | A | G | I  | P | P | L | L | G | F | F | L | K | F | L | I | F |
| <i>Chlamydomonas_eugametos</i> /370-393   | L  | S | I | I | A | I | S | L | A | G | L  | P | P | L | A | G | F | F | G | K | A | W | I | F |
| <i>Chlamydomonas_reinhardtii</i> /285-308 | F  | A | L | C | A | V | S | L | A | G | L  | P | P | F | A | G | F | F | G | K | A | W | I | F |
| <i>Chlorogonium_elongatum</i> /333-356    | F  | T | I | V | A | V | S | L | A | G | L  | P | P | L | A | G | F | F | G | K | A | W | I | F |
| <i>Emiliania_huxleyi</i> /371-394         | F  | S | F | L | L | L | A | L | A | G | I  | P | P | L | L | G | F | F | S | K | L | M | V | I |
| <i>Ochromonas_danica</i> /389-412         | I  | L | F | I | F | F | S | I | G | G | I  | P | P | F | V | G | F | I | S | K | M | I | T |   |
| <i>Cafeteria_roenbergensis</i> /696-719   | F  | V | I | I | V | F | S | M | S | G | I  | P | P | L | A | G | F | F | I | K | F | D | I | L |
| <i>Chrysodidymus_synuroideus</i> /388-411 | L  | L | I | L | F | F | S | F | G | G | I  | P | P | F | I | G | F | F | S | K | V | L | I | I |
| <i>Rhodomonas_salina</i> /388-411         | F  | L | I | I | F | F | S | M | G | G | I  | P | P | F | A | G | F | F | S | K | F | F | I | F |
| <i>Pseudendoclonium_akinatum</i> /445-468 | L  | T | L | T | L | F | S | L | G | G | I  | P | L | L | A | G | F | Y | S | K | Y | L | I | I |
| <i>Monosiga_brevicollis</i> /406-429      | L  | T | L | S | L | F | S | I | A | G | I  | P | P | L | A | G | F | I | S | K | Y | Y | I | L |
| <i>Cyanidioschyzon_merolae</i> /394-417   | I  | L | I | I | L | F | S | I | S | G | I  | P | P | I | A | G | F | F | T | K | L | I | V | F |
| <i>Laminaria_digitata</i> /388-411        | V  | A | L | M | I | F | S | L | A | G | I  | P | P | F | G | G | F | F | A | K | L | N | I | F |
| <i>Porphyra_purpurea</i> /390-413         | L  | V | G | I | L | F | S | M | A | G | I  | P | P | F | P | G | F | F | A | K | A | F | V | L |
| <i>Chondrus_crispus</i> /389-412          | L  | T | L | F | L | F | S | M | A | G | I  | P | P | L | G | G | F | F | A | K | L | F | V | L |
| <i>Phytophthora_infestans</i> /389-412    | I  | I | I | N | I | F | S | L | A | G | I  | P | P | L | A | G | F | F | S | K | L | F | I | F |
| <i>Saprolegnia_ferax</i> /388-411         | I  | V | L | N | V | F | S | M | S | G | I  | P | P | L | A | G | F | F | S | K | L | F | L | F |
| <i>Acanthamoeba_castellanii</i> /419-442  | I  | F | I | L | L | F | S | I | A | G | I  | P | P | L | L | G | F | Y | S | K | F | F | L | F |
| <i>Thraustochytrium_aureum</i> /385-408   | F  | C | I | I | L | F | S | I | A | G | I  | P | P | L | A | G | F | Y | S | K | I | F | V | F |
| <i>Prototheca_wickerhamii</i> /403-426    | F  | S | I | T | L | F | S | M | A | G | I  | P | P | L | A | G | F | Y | S | K | A | Y | I | F |
| <i>Jakoba_libera</i> /405-428             | L  | A | V | L | L | F | S | M | A | G | I  | P | P | L | A | G | F | F | S | K | L | Y | V | F |
| <i>Reclinomonas_americana</i> /390-413    | L  | A | I | V | L | F | S | M | A | G | I  | P | P | L | A | G | F | F | S | K | L | Y | V | F |
| <i>Malawimonas_jakobiformis</i> /386-409  | F  | T | M | L | L | F | S | M | A | G | I  | P | P | L | A | G | F | F | N | K | L | Y | I | F |
| <i>Nephroselmis_olivacea</i> /388-411     | M  | S | M | I | L | F | S | M | A | G | I  | P | P | L | A | G | F | F | A | K | Y | Y | I | F |