Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

**Model Organism Characteristics**

Instructions: Please fill out this chart using research from credible sources. Please make sure to list all of the resources you use so you can cite them later on when completing the paper.

|  |  |  |
| --- | --- | --- |
|  | **Characteristics** | **Name of Organism:** |
| **1.** | Complete taxonomic classification of organism (K,P,C,O,F,G,S) |  |
| **2.** | Historical context and background |  |
| **3** | Prokaryote or Eukaryote |  |
| **4.** | Physical Size (Length and Mass) |  |
| **5.** | Generation time |  |
| **6.** | State of Nuclear Genome Sequencing (Completed, In Progress, Not Initiated)  \*If so, what is the size of Nuclear Genome |  |
| **7.** | Mechanism(s) of reproduction (Asexual, Sexual, or Both) |  |
| **8.** | Relationship to other organisms (list several close relatives) |  |
| **9.** | Ease to work with (how hard is it to obtain, grow, maintain, reproduce, etc.?) |  |
| **10.** | Financial position (Relative monetary costs and needs of working with this organism) |  |
| **11.** | Research potential (are biochemical, cellular, developmental, genetic, molecular, morphological, physiological, behavioral, ecological, environmental, etc. tools available?) |  |
| **12.** | Ethical benefits vs. concerns/constraints for use in research |  |
| **13.** | Potential for use in basic/fundamental work vs. specialized studies |  |
| **14.** | Photograph(s) of the organism (if there are sexual dimorphisms for organism, images of both sexes should be provided). |  |
| **15.** | Other (include in this category any other interesting facts or reasons why this would make a good model organism) |  |

**Resources:**

* [Copy and paste links here]