

**The Stages of Mitosis in different Cell Organism**

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## Conclusion

Given the class data and the data from our individual group the results were quite similar. The three sampled cells organisms; *Vicia faba*, *Allium cepa*, and *Coregonus clupeaformis* all spent majority of their time in interphase of mitosis stage both in class and in the individual data. In the class data, the *Allium cepa* organism had the highest percentage in the interphase stage which was quite the same as compared to my individual data. Following interphase, the second highest phase observed in the lab was prophase. Metaphase, telophase, and anaphase were observed the least during the experiment, which is also seen in the graphs. The cells were often seen with a distinct, darker nucleus. This correctly represents the theory of mitosis which states the interphase stage takes the longest.

Based on the given data the relative time spent in interphase for the *Vicia faba* was approximately 42%, 28% in prophase, 13.3% in metaphase, 12% in anaphase and 4% in telophase. Regarding *Allium cepa*, 49.3% of the time was spent in interphase, 22% in prophase, 11% in metaphase, 10.6% in anaphase and 4% in telophase. Finally, the *Coregonus clupeaformis* took 39% of the time in Interphase, 30% of the time in prophase, 14% in metaphase, 10.6% in anaphase and 6% of the relative time in telophase.