



Explorations & Recreations in the Sciences (ERIS), 13<sup>th</sup> & 14<sup>th</sup> May 2023

## Motility, Cellularity & Magnitude leading To The Evolutionary Fixation Of Taxa

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The environment at microbial scale is very dynamic, resolved & varied. Microbes also face multiple scales as do higher & larger organisms, in addition to their own scale. Their rate of motility per self appears higher or at least seems so given their minute capacity. The motility, microscopic size & short life cycles are likely able to adapt to the dynamic, resolved & varied micro-bio-geo-graphy. This might be a reason why higher organisms are cellular in order to adapt & evolve at the micro-bio-geo-graphical & microevolutionary scale – matching to interact with the minute. The same reason might suggest why utilization of the Earth's resources including those of the higher size & scale, scale-of-self increase would have been necessary, albeit multicellular as alluded to above.

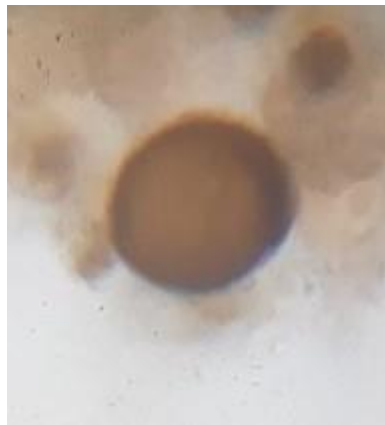


Image 3.1 a. The Source Pond b. The Red/Brown Micro-algoid organism in the pond

Emergence could be essential to create higher scale life out of the multicellular assemblages. This is exemplified in the origin of mind in higher animals. They are the most alive amongst the wild & interact with the emergent biosphere. As the solution to the biospheric question is grand, higher organisms could engage in the evolutionary fixation of themselves with only the magnitudinal share of themselves in the fixation & as the fixed taxa.



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Thus, the ones fit, precise in space-time & only the magnitudinal, could be the better & ultimate fixed life forms. Moreover, the trade-off between maintaining a cellular nature & the magnitude of scale would lead to an intermediate maximum for the fit scale of life.

Enclosures-

1. (Image 3.1) The Source Pond
2. (Video 3.2) A Population of Red/Brow Micro-Alga like Cells