

Unicellular to Multicellular: Some Empirically Parsimoniously Plausible Hypotheses

Authors : Catherine K. Derow

Abstract : Possibly a slime mold somehow mutated or already was mutated at progeniture and so stayed as a metazoan when it developed into the fruiting stage and so the slime mold(s) we are evolved and similar to are genetically differ from the slime molds in existence now. This may be why there are genetic links between humans and other metazoa now alive and slime molds now alive but we are now divergent branches of the evolutionary tree compared to the original slime mold, or perhaps slime mold-like organisms, that gave rise to metazoan animalia and perhaps algae and plantae as slime molds were undifferentiated enough in many ways that could allow their descendants to evolve into these three separate phylogenetic categories. Or it may be a slime mold was born or somehow progenated as multicellular, as the particular organism was mutated enough to have say divided in a 'pseudo-embryonic' stage, and this could have happened for algae, plantae as well as animalia or all the branches may be from the same line but the missing link might be covered in 'phylogenetic sequence comparison noise'.

Keywords : metazoan evolution, unicellular bridge to metazoans, evolution, slime mold

Conference Title : ICMOCS 2018 : International Conference on Multicellular Organisms and Cell Specialization

Conference Location : Sydney, Australia

Conference Dates : March 29-30, 2018