

The emergences of metazoa and Earth history

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The major events in the emergences of metazoa is discussed on the basis of recent advances on the molecular phylogeny and developmental genetics of metazoa. The Cambrian explosion occurred in the dueterostomes, Ecdysozoa and Lophotrochozoa, suggesting that the explosion was triggered by some physical environmental changes. The roots of metazoa was further dating back to the Neoproterozoic era. It is noted that the appearances of Ediacara fauna followed the termination of the big freeze, so called snowball earth conditions.