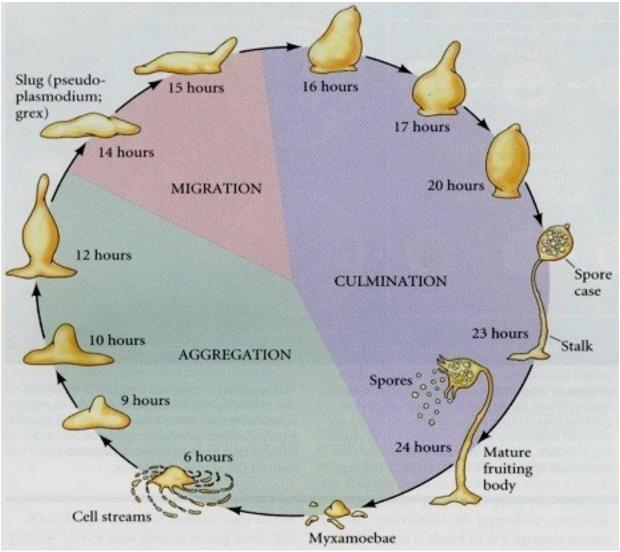




Radboud University Nijmegen



1.Free living myxamoebae feed on bacteria and divide by fission.

- 2. When food is exhausted they aggregate to form a mound, then a multicellular slug.

3. Slug migrates towards heat and light.

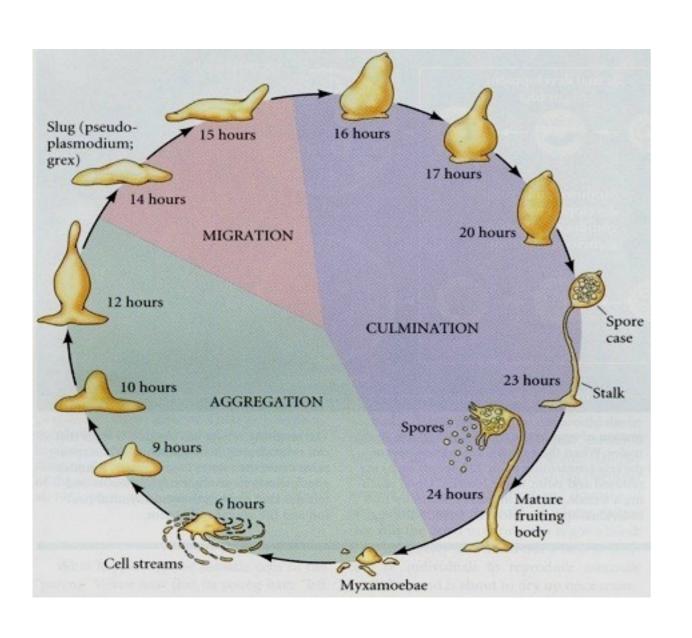
4. Differentiation then ensues forming a fruiting body, containing spores.

5.It all takes just 24 hrs.

6.Released spores form new amoebae.

Emergence and Self-Organization: The life-cycle of *Dictyostelium*

Emergence and Self-Organization: The life-cycle of *Dictyostelium*



- 1.Free living myxamoebae feed on bacteria and divide by fission.
- 2. When food is exhausted they aggregate to form a mound, then a multicellular slug.
- 3. Slug migrates towards heat and light.
- 4. Differentiation then ensues forming a fruiting body, containing spores.
- 5.It all takes just 24 hrs.
- 6.Released spores form new amoebae.

Order parameter: Labelling states of a complex system

