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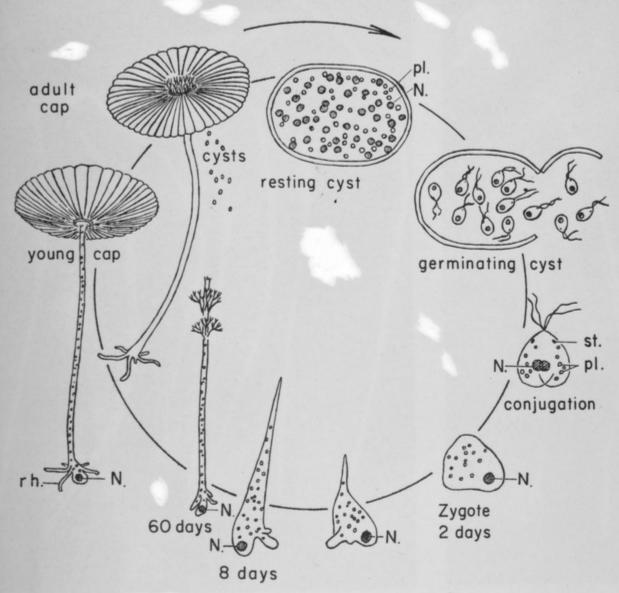
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Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org (121). It was concluded by Hämmerling, as early as 1934, that the morphogenetic capacity of an anucleate part is determined by the amount of nucleus-dependent morphogenetic substances stored in it; these substances are distributed along an anterior-posterior concentration gradient.



Life cycle of Acetabularia mediterranea.

Further analysis of the problem by Hämmerling (1943, 1946) and his colleagues (Beth, 1943; Maschlanka, 1946) includes very interesting experiments on interspecific grafts. For instance, binucleate grafts containing one A.mediterranea (med) and one A.crenulata (cren) nucleus form "intermediate" caps (Fig. 122); trinucleate grafts containing two cren and one med nucleus give, as would be expected, caps which