

Module 6: Dictyostelium cluster formation & slug movement

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Aim

- Main scientific goal
- Didactive aim

Description

- Step by step description of module
- Written such that other tutors can teach the same stuff

Paper

- Savill, N. J., & Hogeweg, P. (1997). Modelling morphogenesis: from single cells to crawling slugs. *J. Theor. Biol.*, 184, 229-235. [link](#)
- Stan Marée (2002), From pattern formation to morphogenesis: multicellular coordination in *Dictyostelium discoideum* [link](#)
- Alberto Quintero, Mirko Myllykoski, Anna Igolkina, Alexandra Rohde O'Sullivan Freltoft, Nitya Dixit, Fabian Rost (2012), Morphogenesis and Dynamics of Multicellular Systems, [link](#)

Morpheus models

[Link to Example page](#)

h MorpheusModel.xml |h

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<MorpheusModel version="1">
  <Description>
    <Title>Example-Model</Title>
  </Description>
  <Space>
    <Lattice class="linear">
      <Size value="100 0 0"/>
      <BoundaryConditions>
        <Condition boundary="x" type="periodic"/>
      </BoundaryConditions>
    </Lattice>
  </Space>
</MorpheusModel>
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</Lattice>
</Space>
<Time>
  <StartTime value="0"/>
  <StopTime value="100"/>
</Time>
</MorpheusModel>
```

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