

## Module 5: Cell fate decisions (model assumptions)

Author: Name

Aim:

- Learn to make implicit model assumptions explicit
- Learn about effect of noise and motility on cell fate decisions

Description:

- Introduce Delta-Notch patterning

Paper:

- Wolpert L (1969). "Positional information and the spatial pattern of cellular differentiation". J. Theor. Biol. 25 (1): 1-47. doi:10.1016/S0022-5193(69)80016-0. PMID 4390734. [link](#)

Morpheus models:

[Link to Example page](#)

h MorpheusModel.xml |h

```
<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>
  <Time>
    <StartTime value="0"/>
    <StopTime value="100"/>
  </Time>
</MorpheusModel>
```

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