

## 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:

- de Back W, Zhou JX, Brusch L. 2012 On the role of lateral stabilization during early patterning in the pancreas. J R Soc Interface 10: 20120766. [link pdf](#)

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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<https://imc.zih.tu-dresden.de/wiki/morpheus/doku.php?id=documentation:course:module5&rev=1355493126>

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