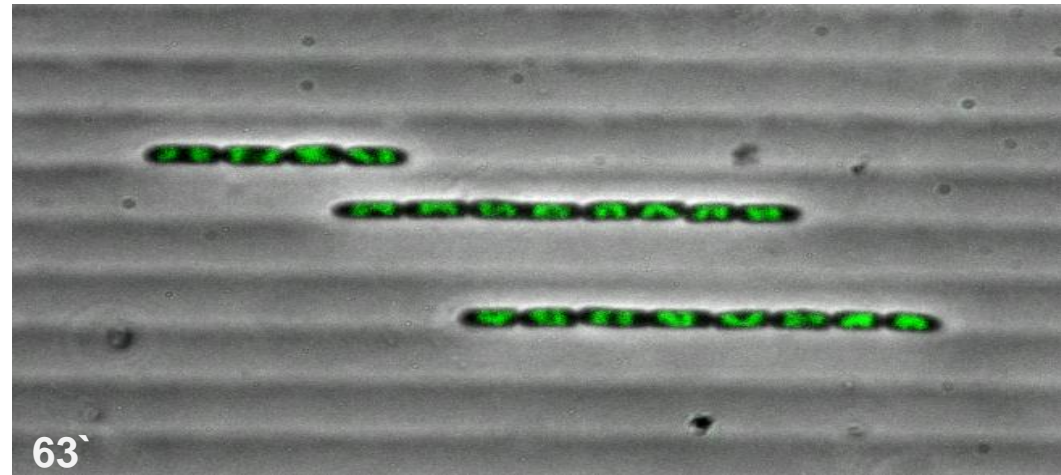
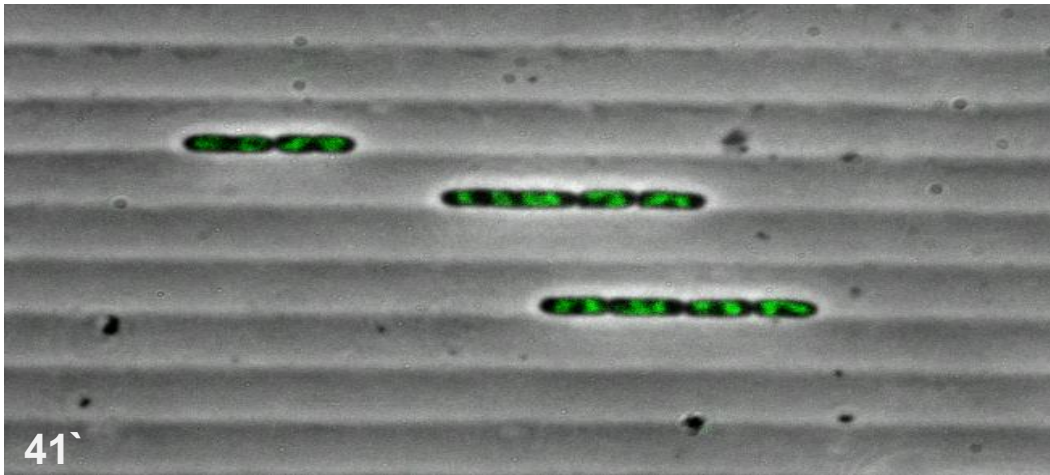
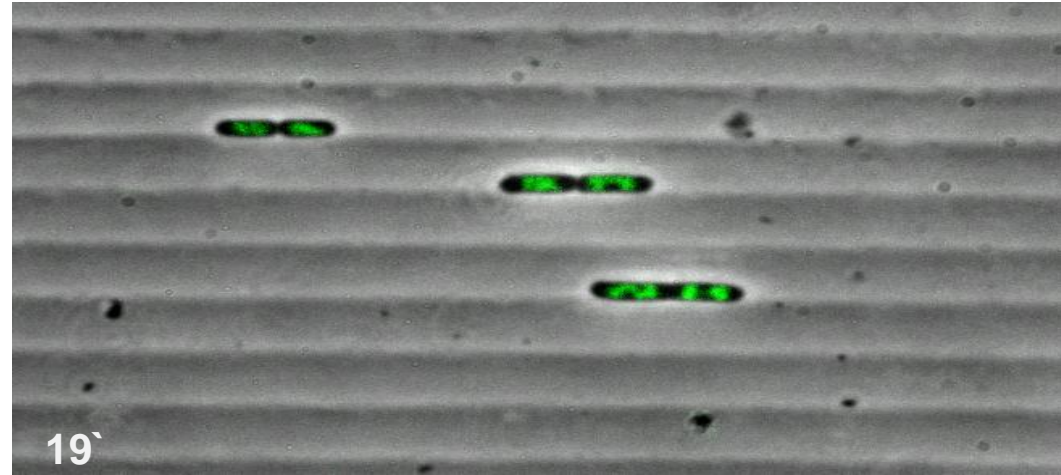
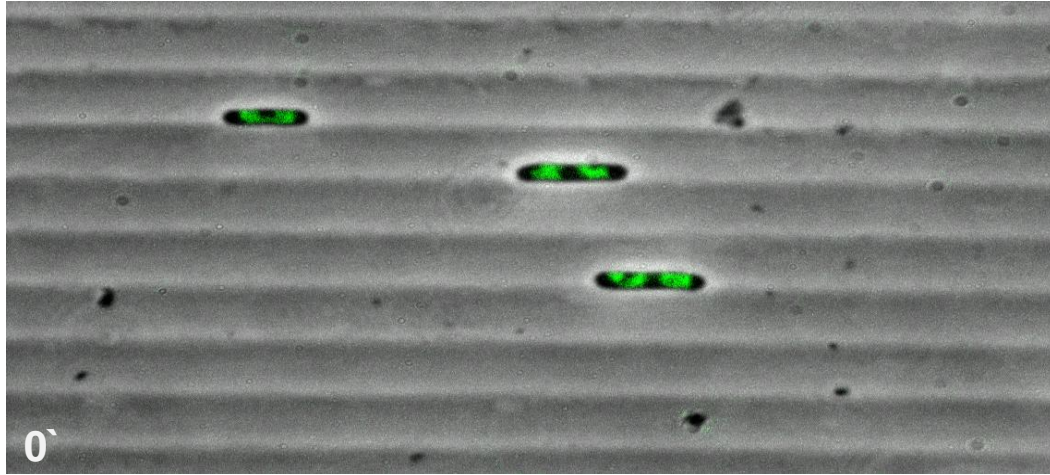


Cell division and variability

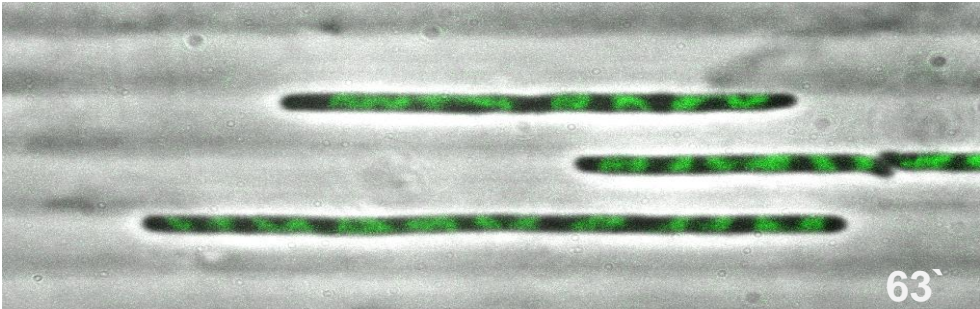
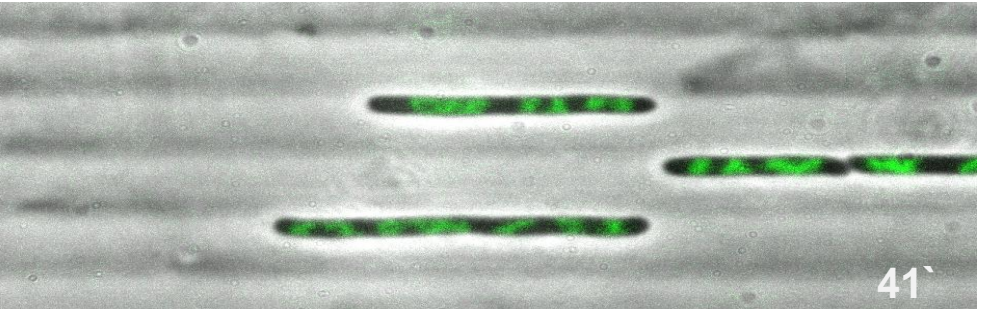
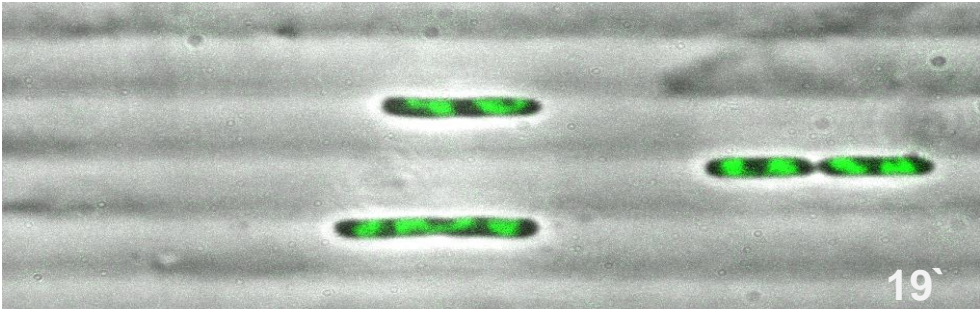
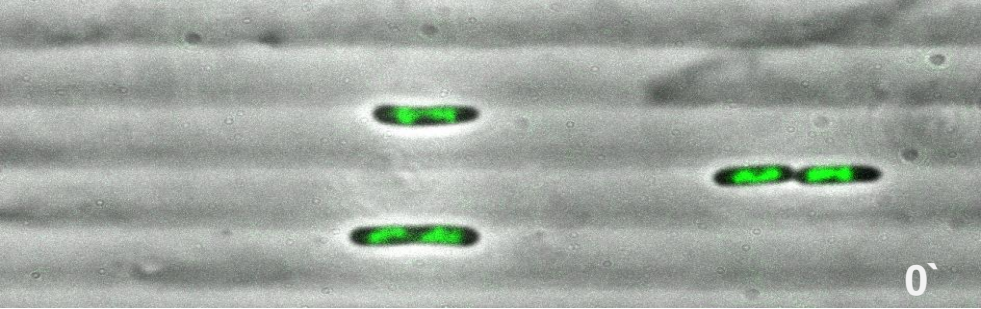
M. Feingold



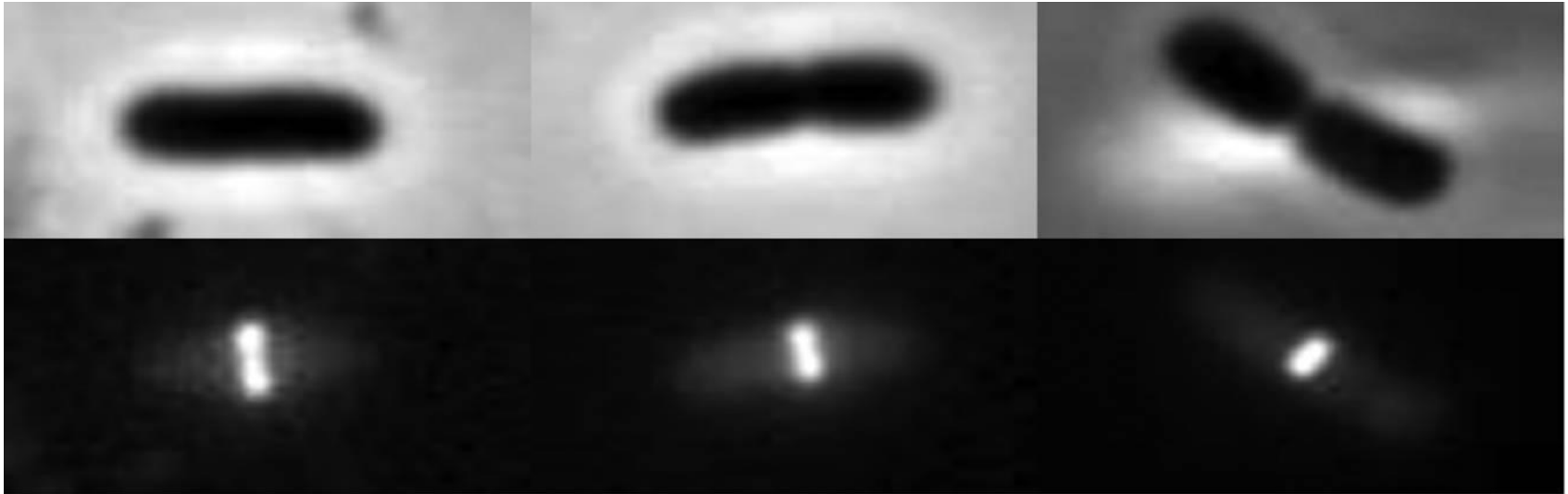
E. Coli grow in microchannels – DNA is fluorescent



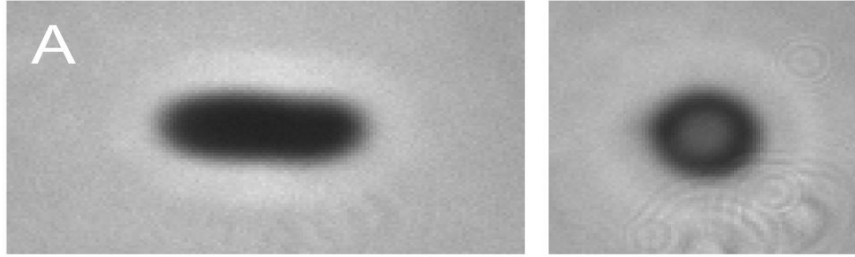
Same as before, only here an antibiotics blocks division



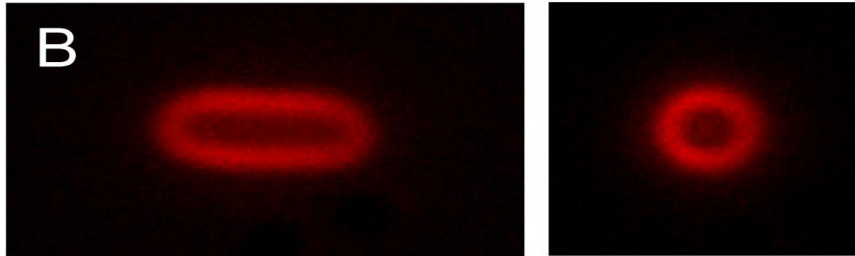
3D structure of the Z-ring



Phase contrast

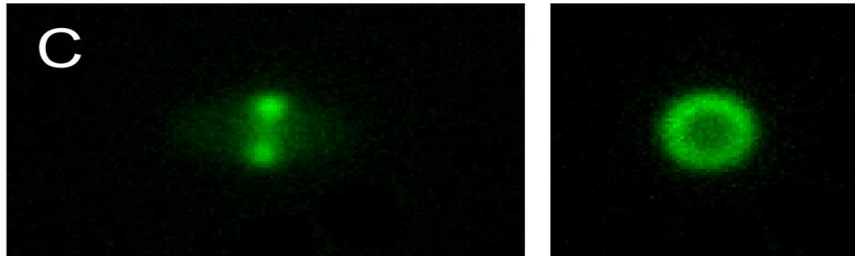


Membrane



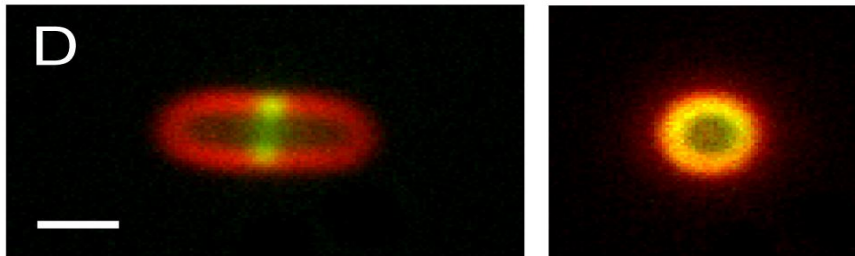
FM4-64

Z-ring

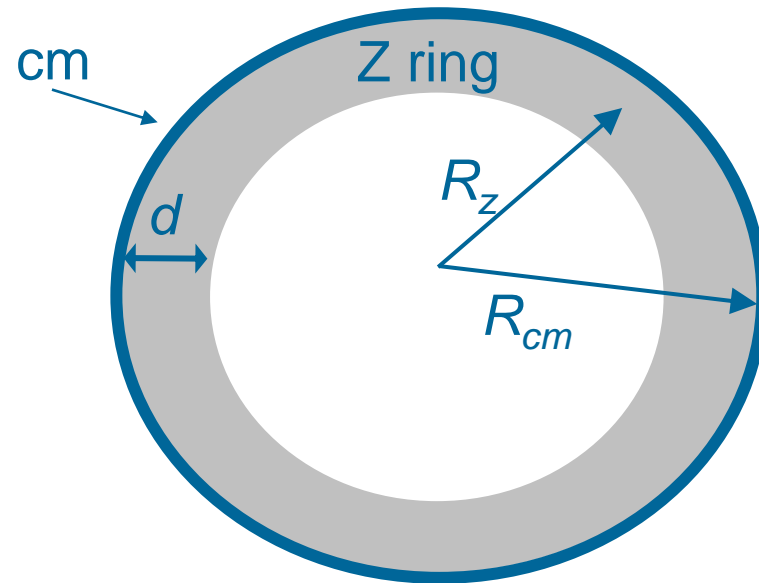


GFP

Overlay



Model



$$d = 100 \text{ nm}$$

- **very sparse – between 0.4% to 4% occupied volume**
- **requires 3D random network to fill the torus**

