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

Z-ring

Overlay

FM4-64

GFP
Model

$d = 100 \text{ nm}$
- very sparse – between 0.4% to 4% occupied volume

- requires 3D random network to fill the torus