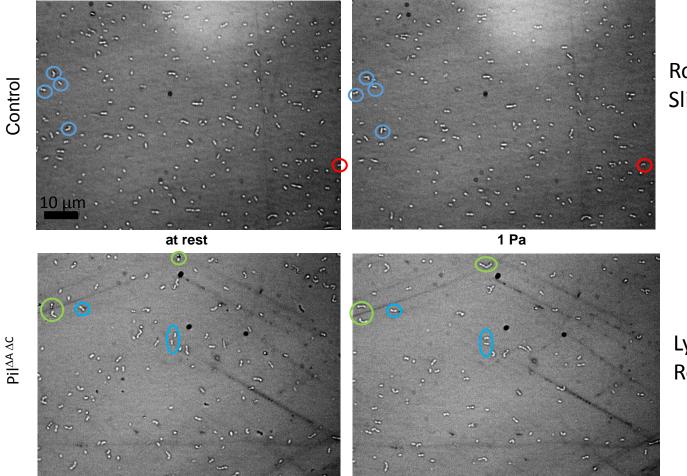
Figures S1: Types of motion under shear flow



## bare polystyrene

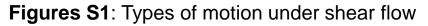
Rotation (o) Sliding (o)



Lying-flat (o) Rotation (o)

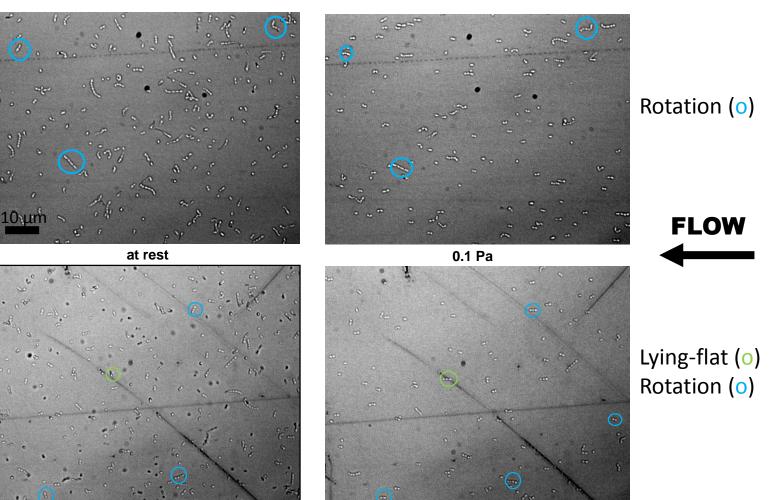
at rest

0.1 Pa



Pil∆B

**Pil**StrC\*

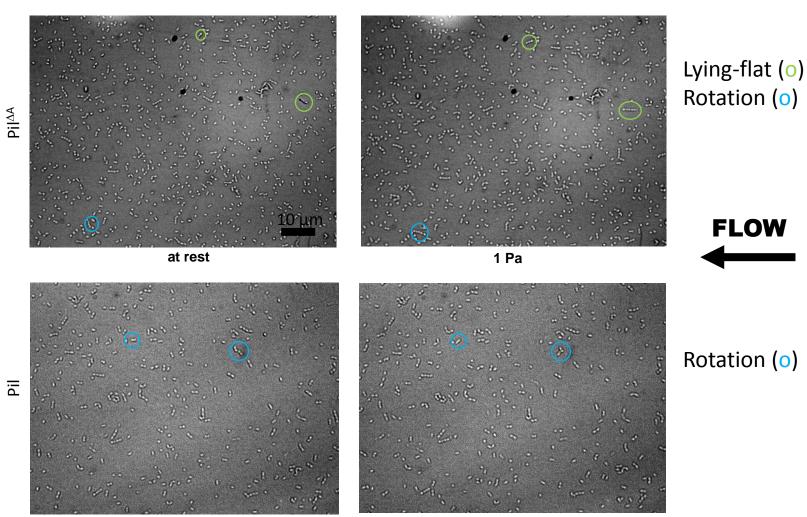


at rest

0.1 Pa

bare polystyrene

Figures S1: Types of motion under shear flow



60 Pa

bare polystyrene

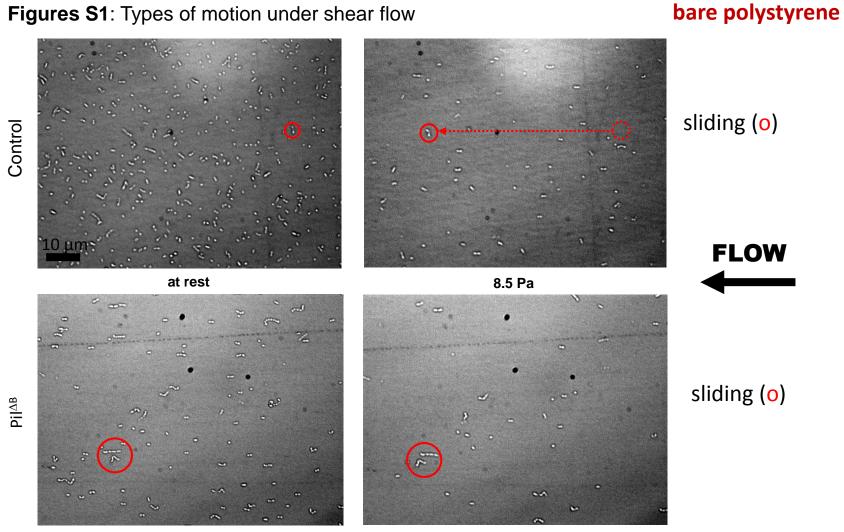
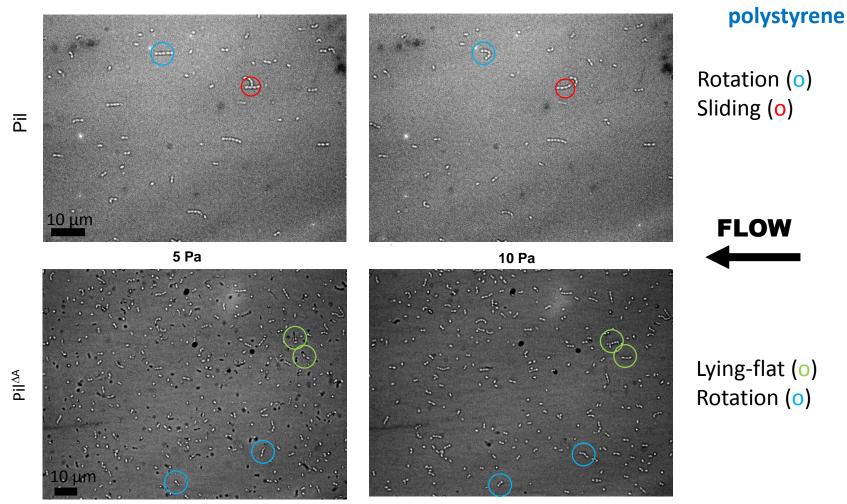




Figure S1: Types of motion under shear flow

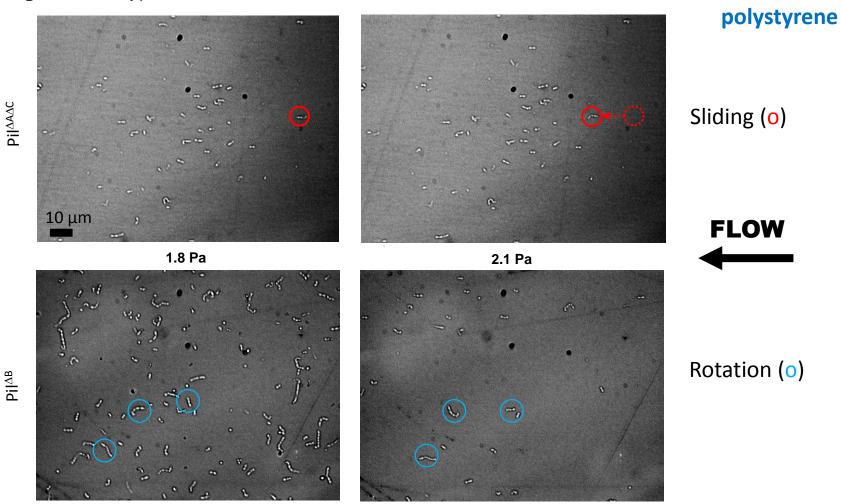




0.2 Pa

mucin-coated

Figures S1: Types of motion under shear flow

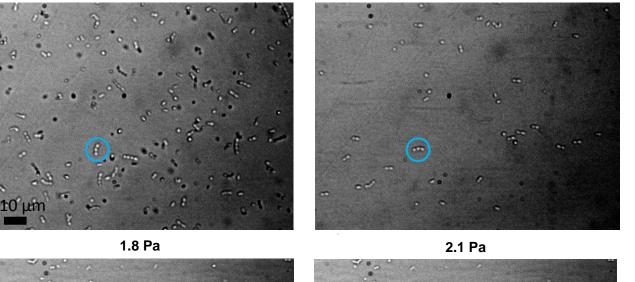


At rest

0.2 Pa

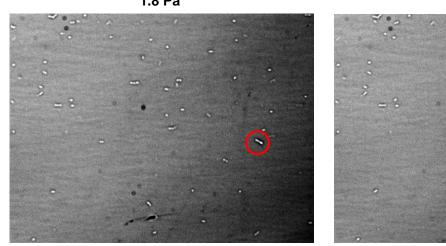
mucin-coated

Figures S1: Types of motion under shear flow



Pil∆A∆C

control





mucin-coated

Rotation (o)

**FLOW** 

Sliding (o)

polystyrene