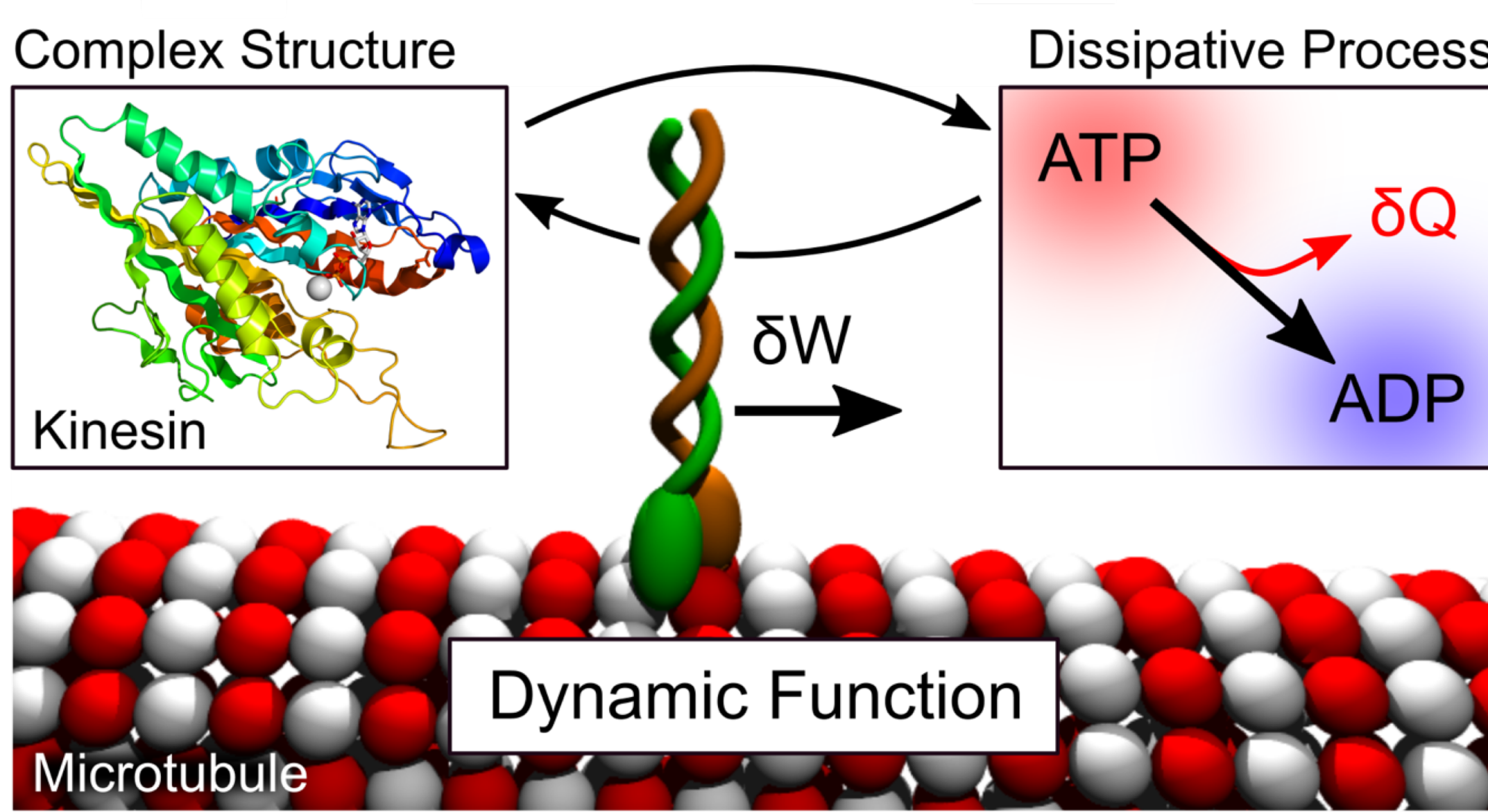
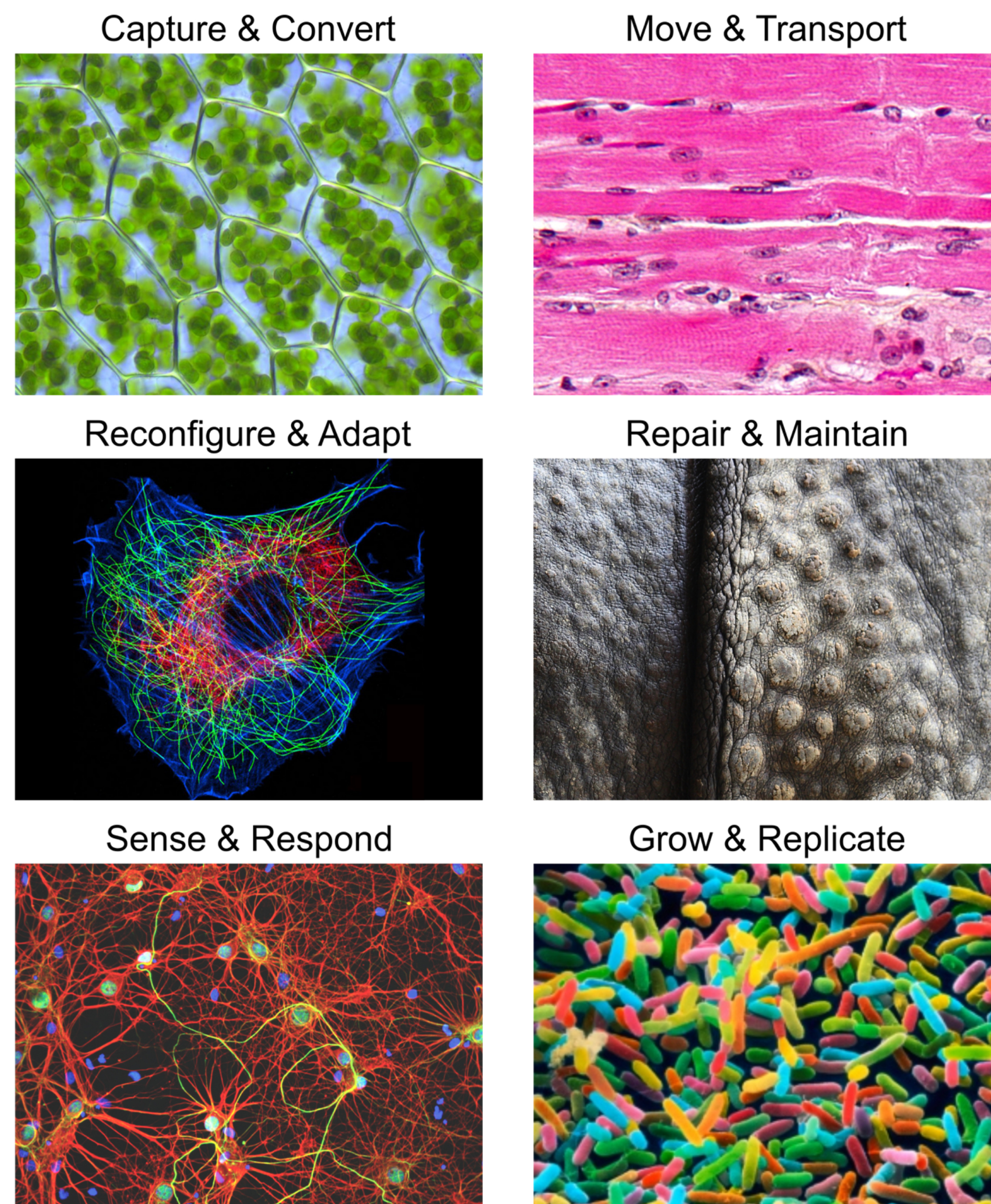


# Bio-Inspired Synthetic Soft matter group

Bishop Research Group

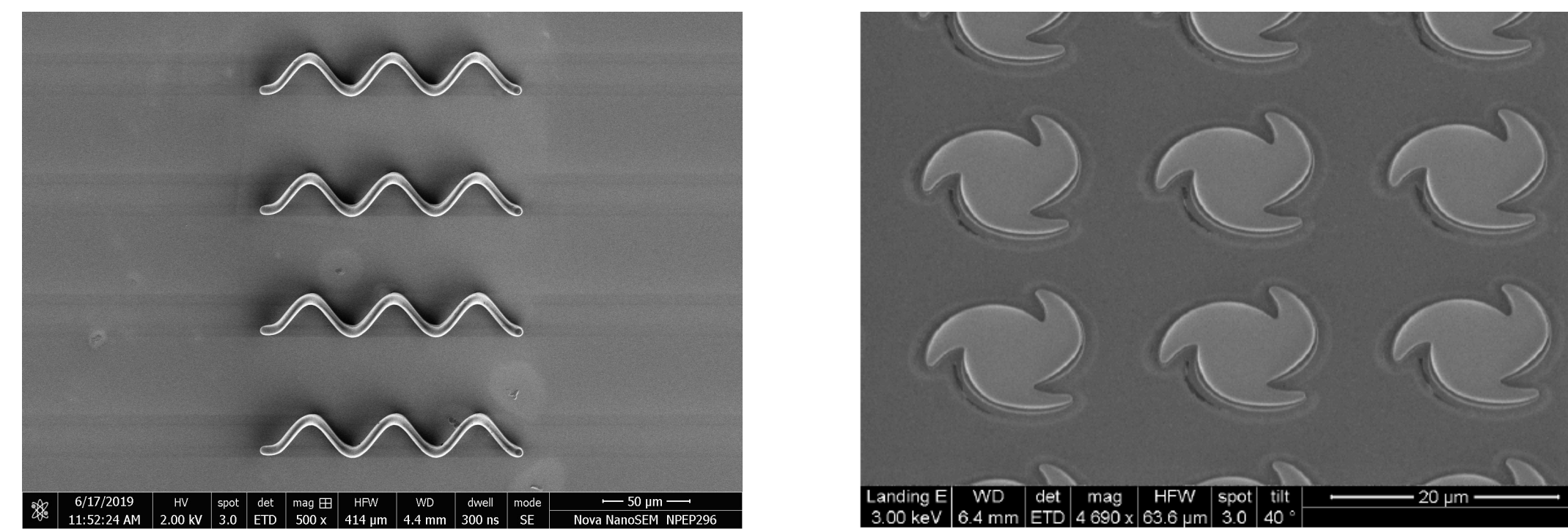
Dynamic functions in living matter

Design dynamic functions in synthetic active matter

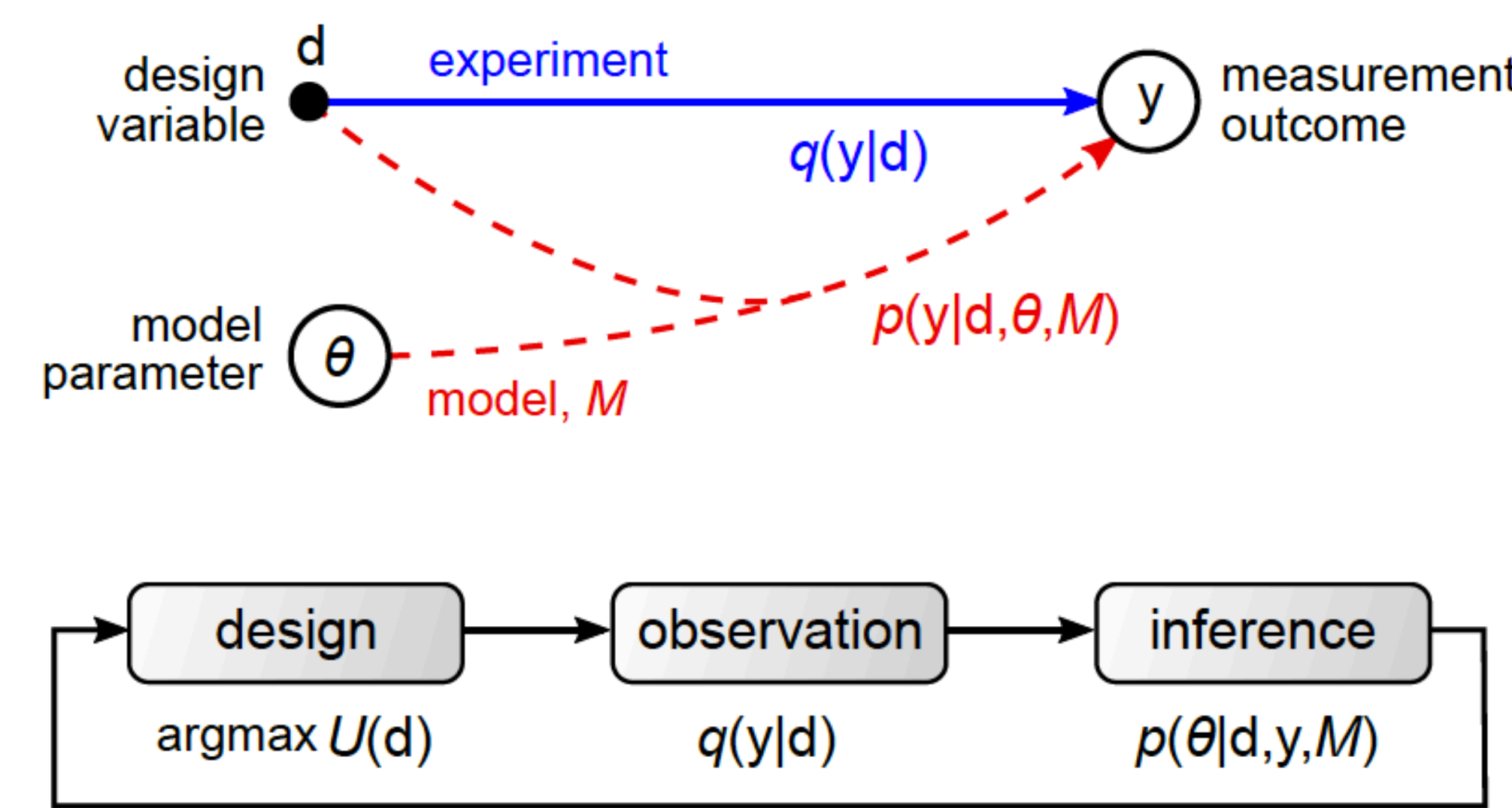


Dynamic functions require the coupling of **complex structures** and **dissipative process**.

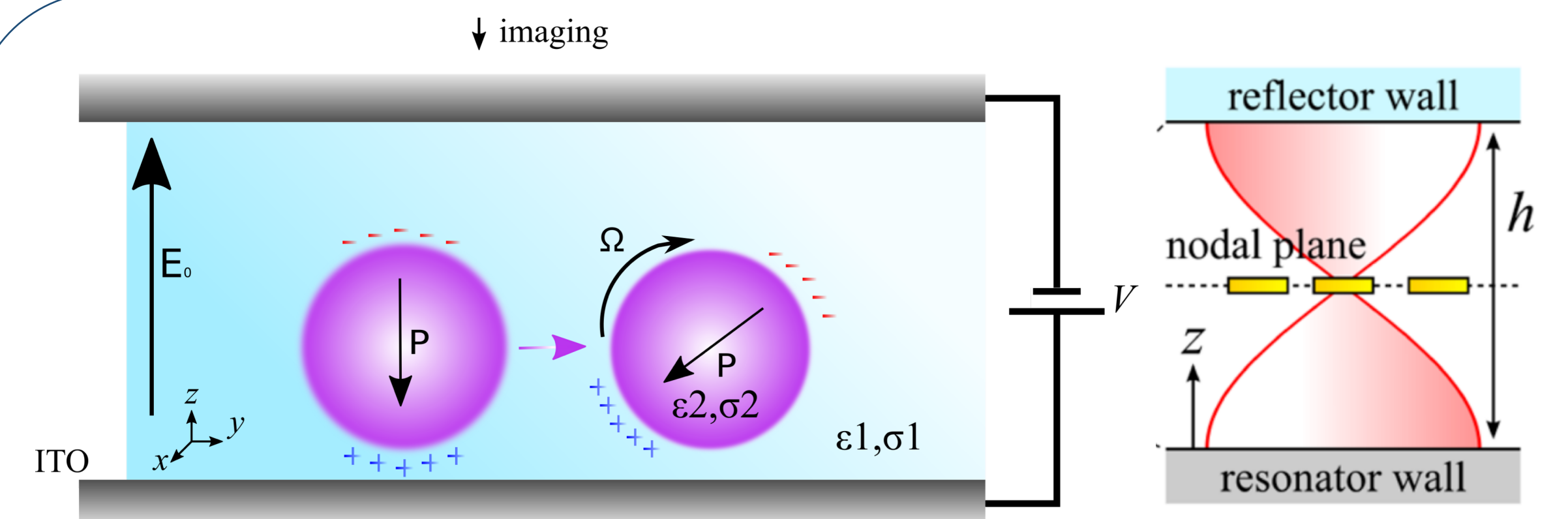
Complex structures



Nano/micro fabrication and synthesis

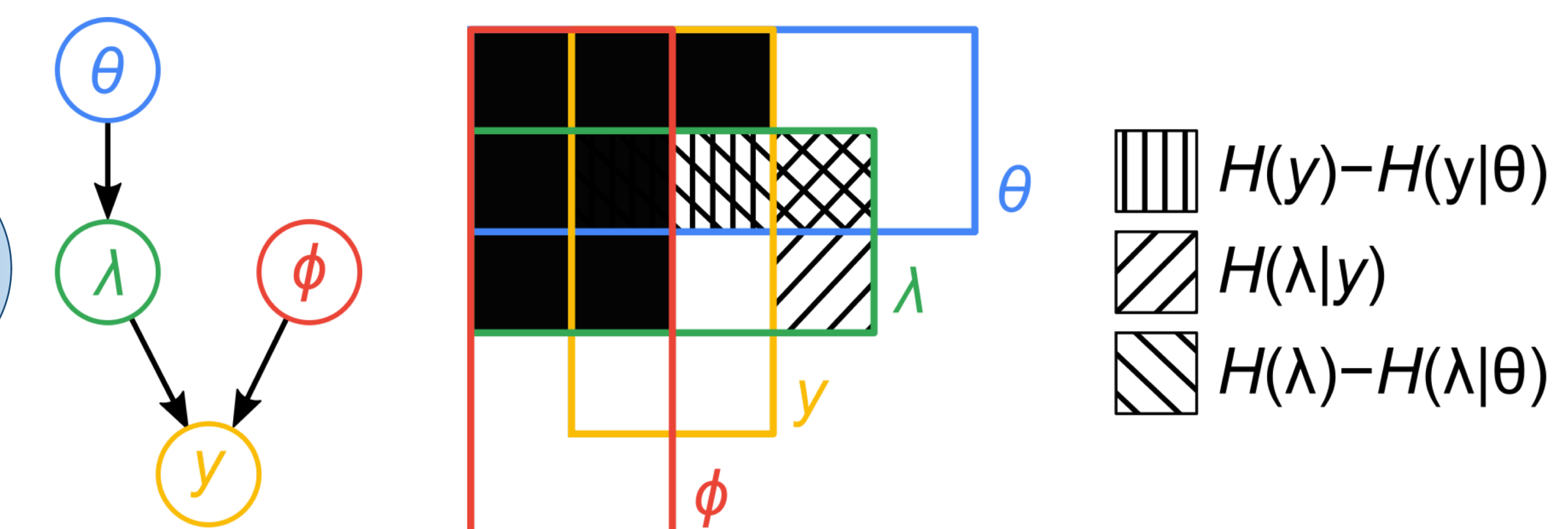


Dissipation process



e.g., Electrostatics, acoustic or magnetic, chemical field

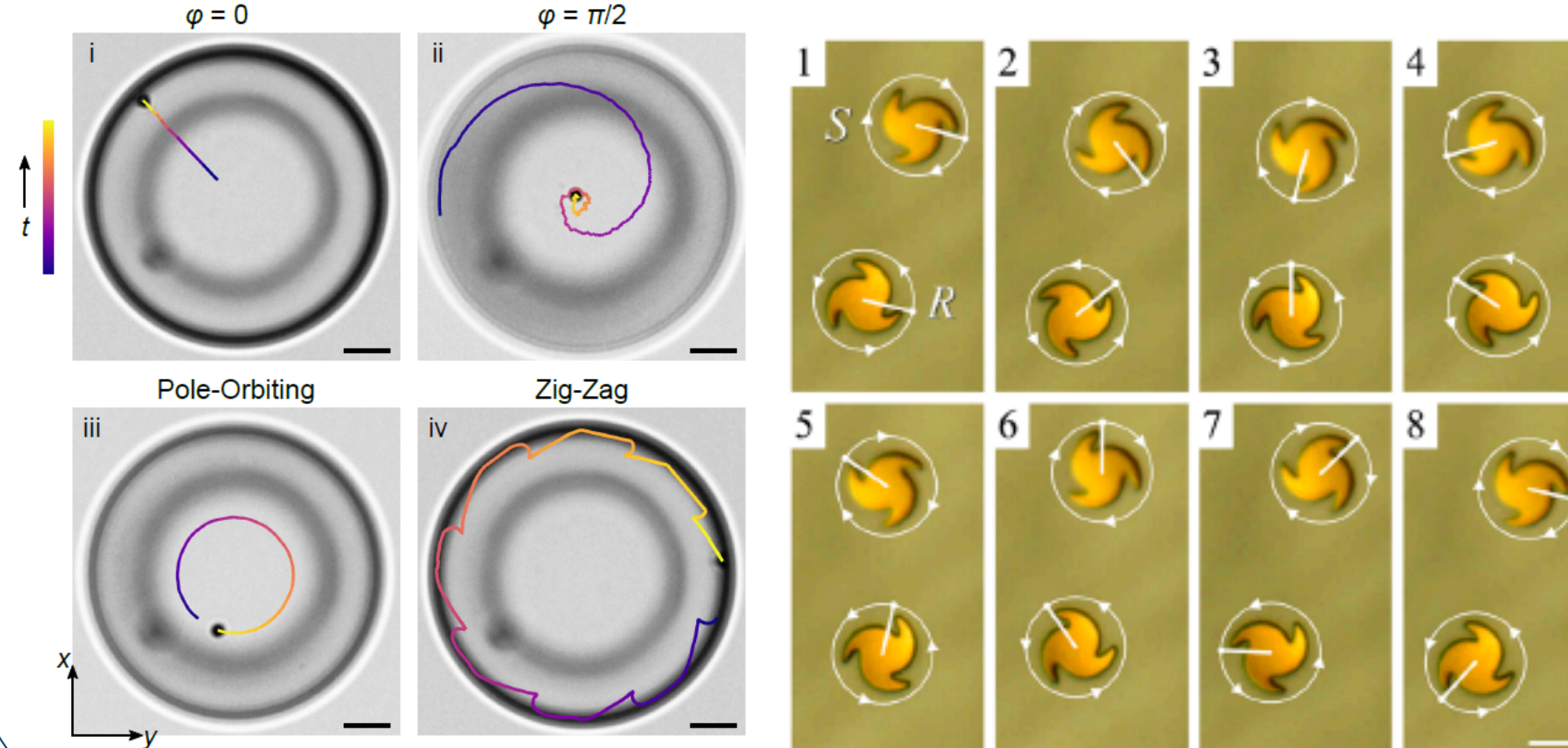
Optimal Design



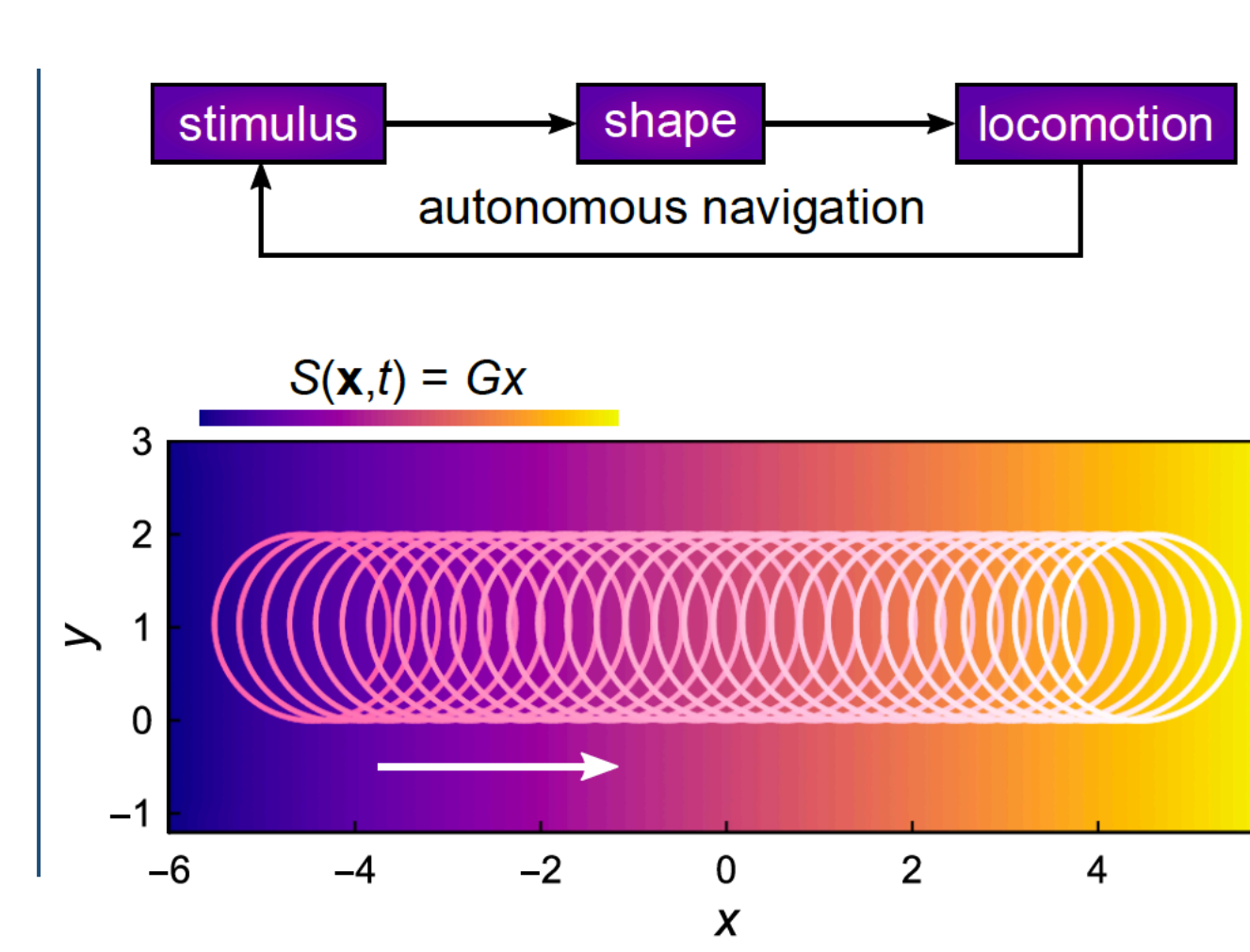
Automating Bayesian inference

Dynamic Functions

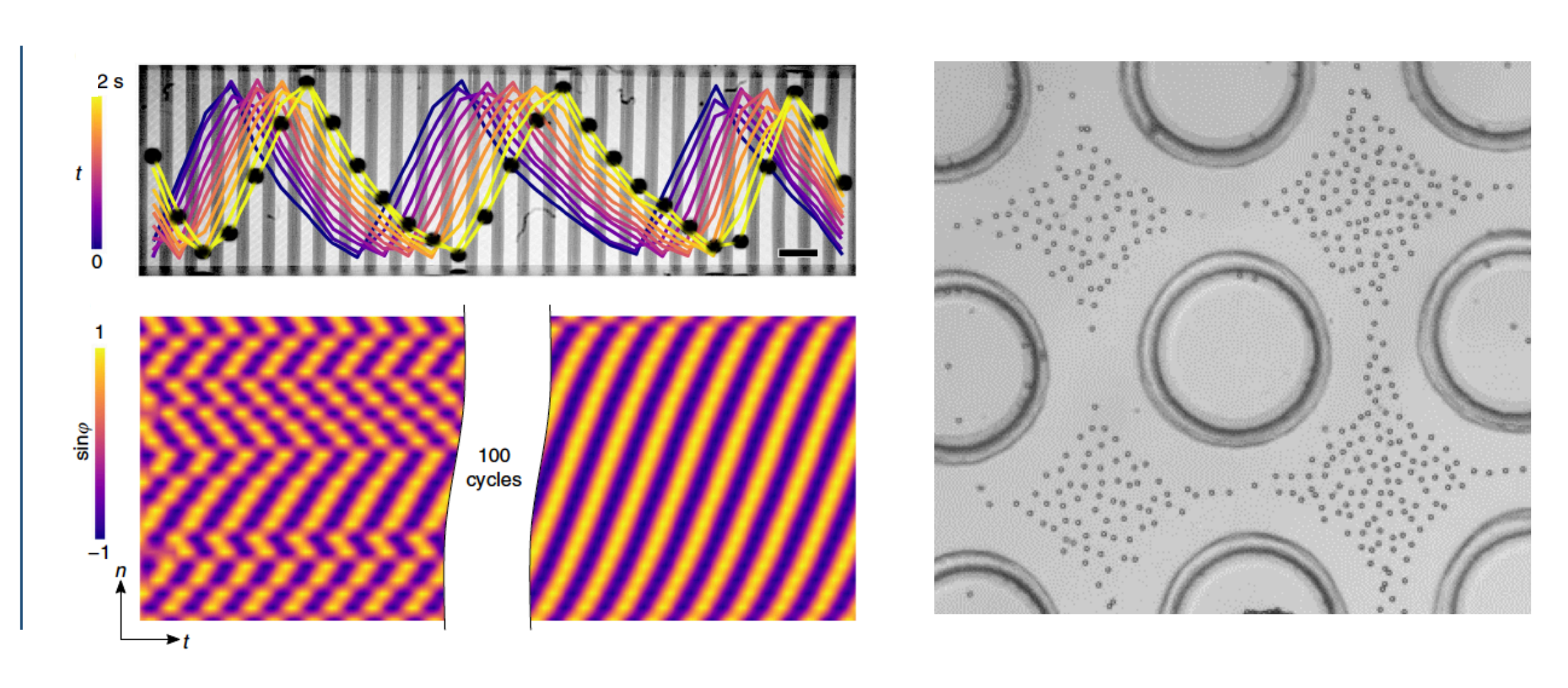
Motion



Navigation



Self Organization



U.S. DEPARTMENT OF ENERGY

CBES Center for Bio-Inspired Energy Science

