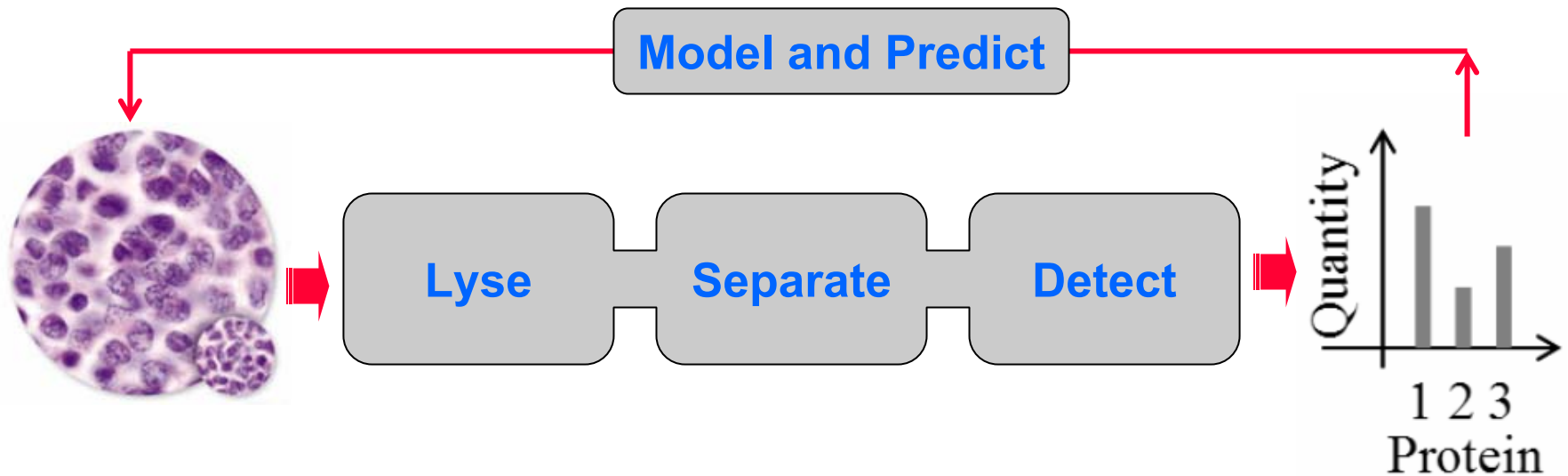


# Integrated systems for high throughput measurement

Scott Manalis, MIT Center for Bits and Atoms

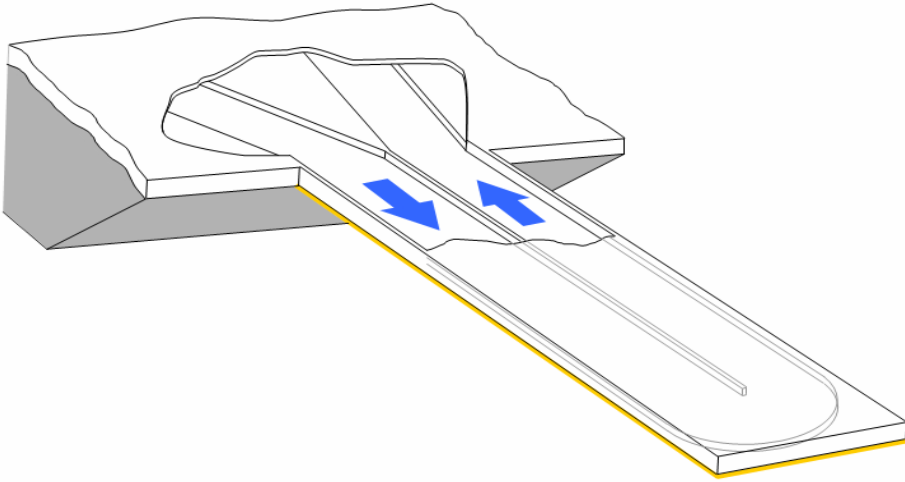
*Associate Professor*

*Media Arts & Science and Biological Engineering*



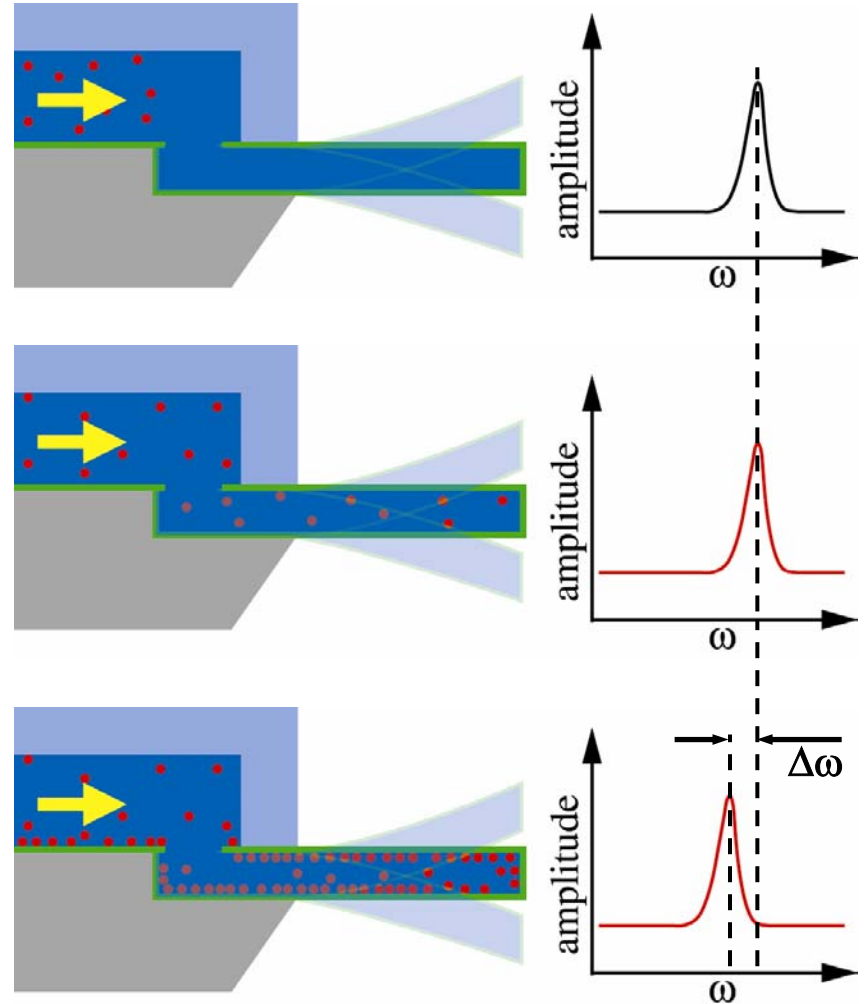
*cells in .... data out*

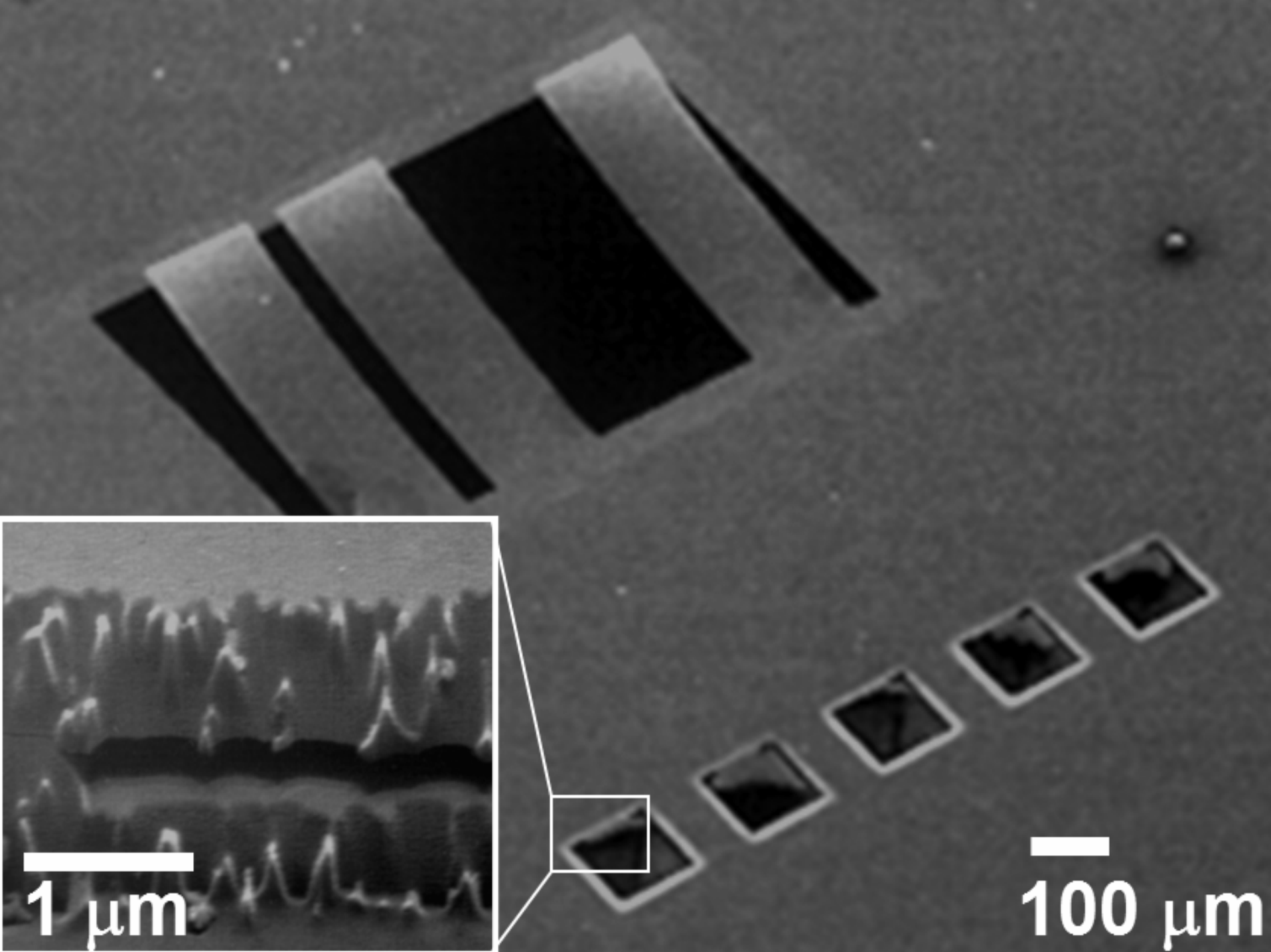
# The Suspended Microchannel Resonator



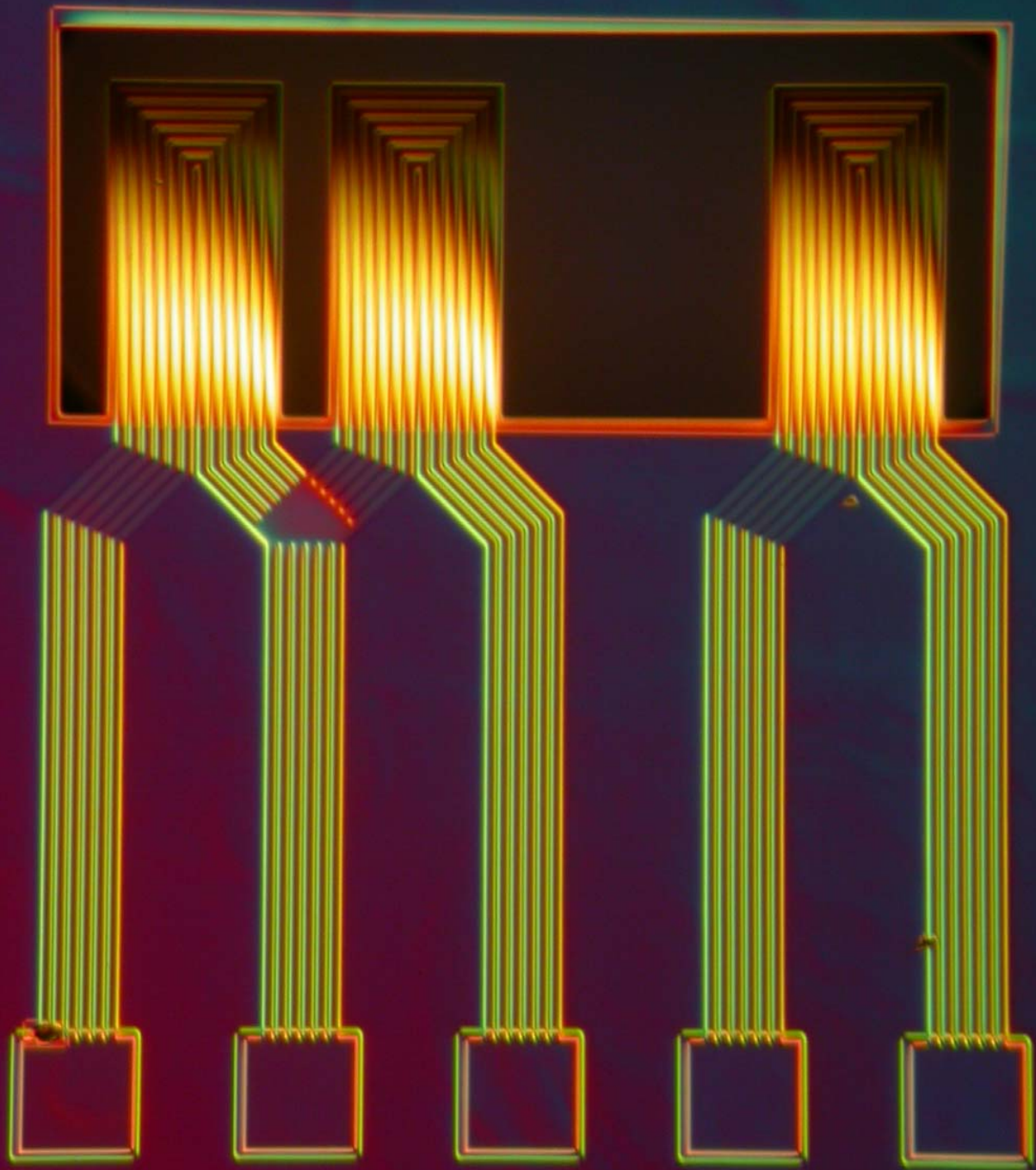
Hollow Cantilever

Liquid inside and  
vacuum outside





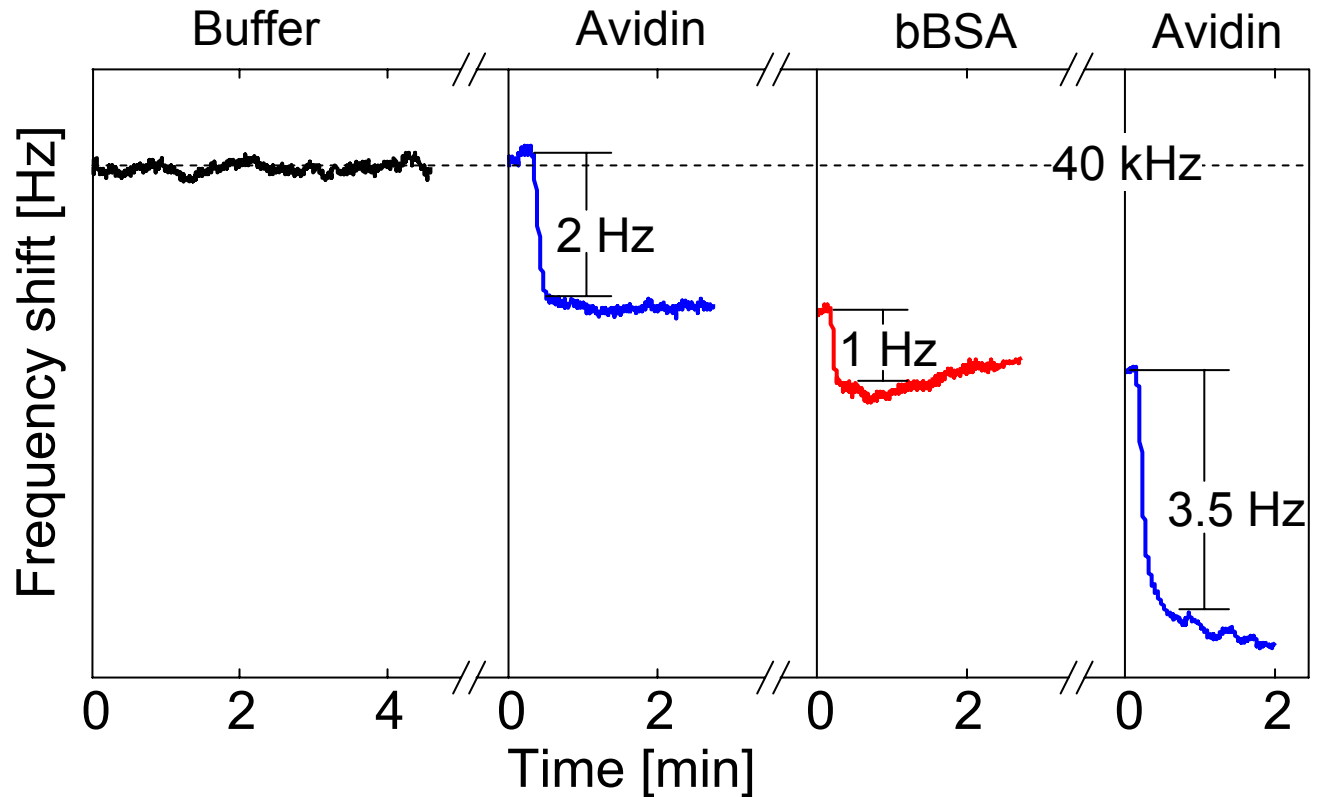
100  $\mu\text{m}$



# Biotin/Avidin multilayer formation

 Avidin

 bBSA



Channel wall:

