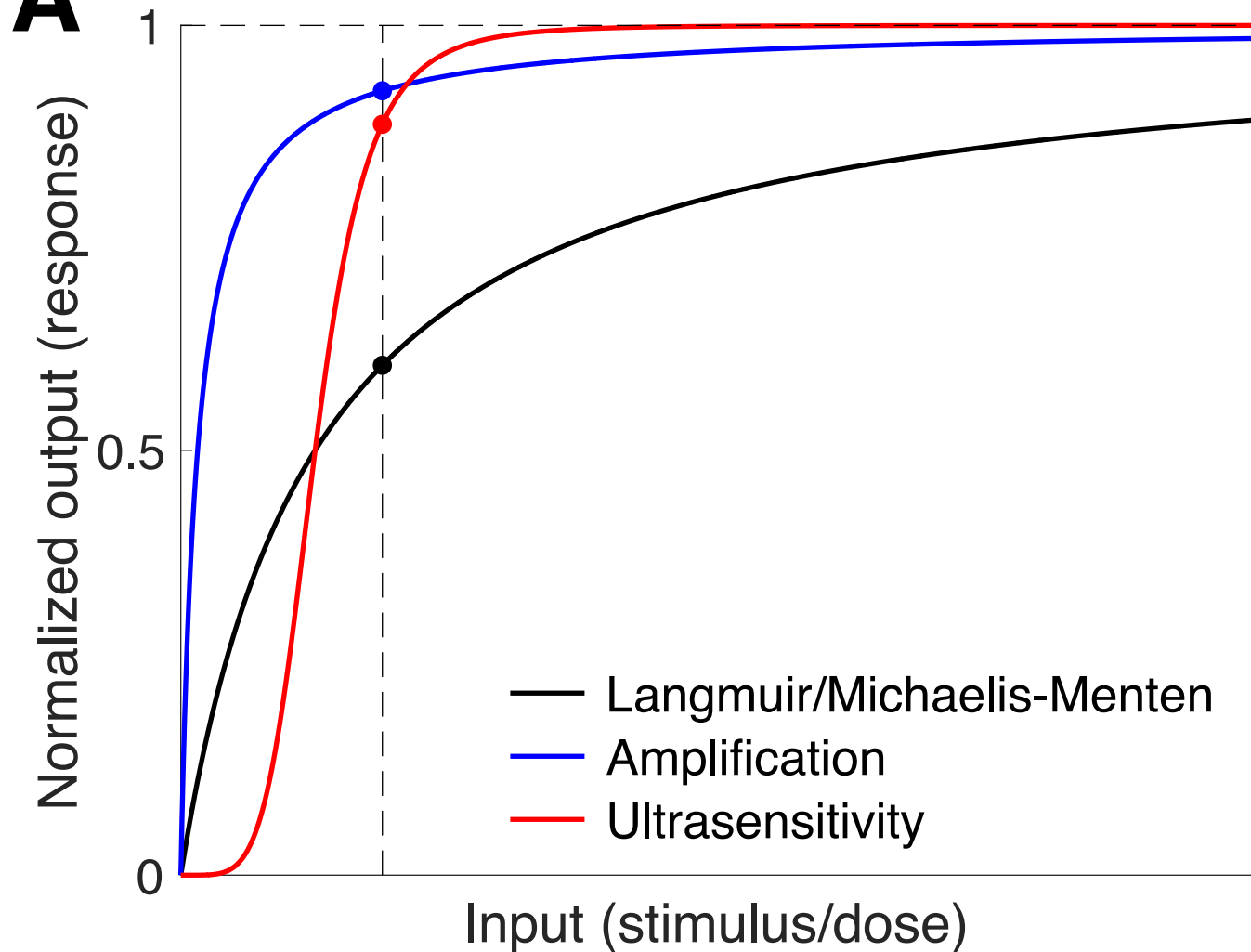
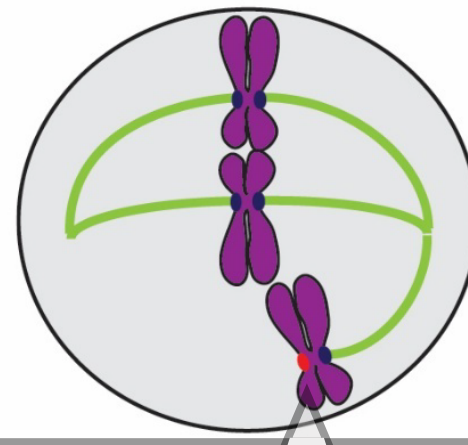


A**B**

Messenger: fast production & high mobility (cAMP, Ca^{2+} , etc.)

Positive feedback/ catalytic cascade (MAPK, Caspase, etc.)

Transcriptional regulation: central dogma