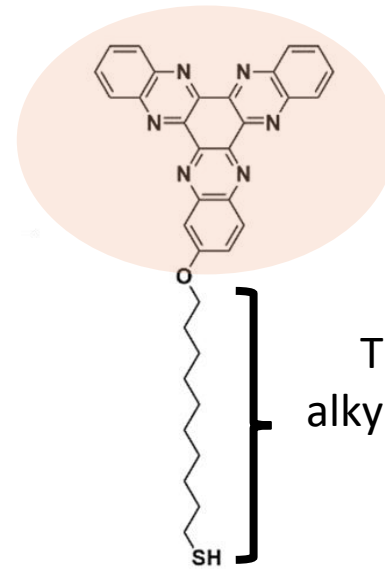
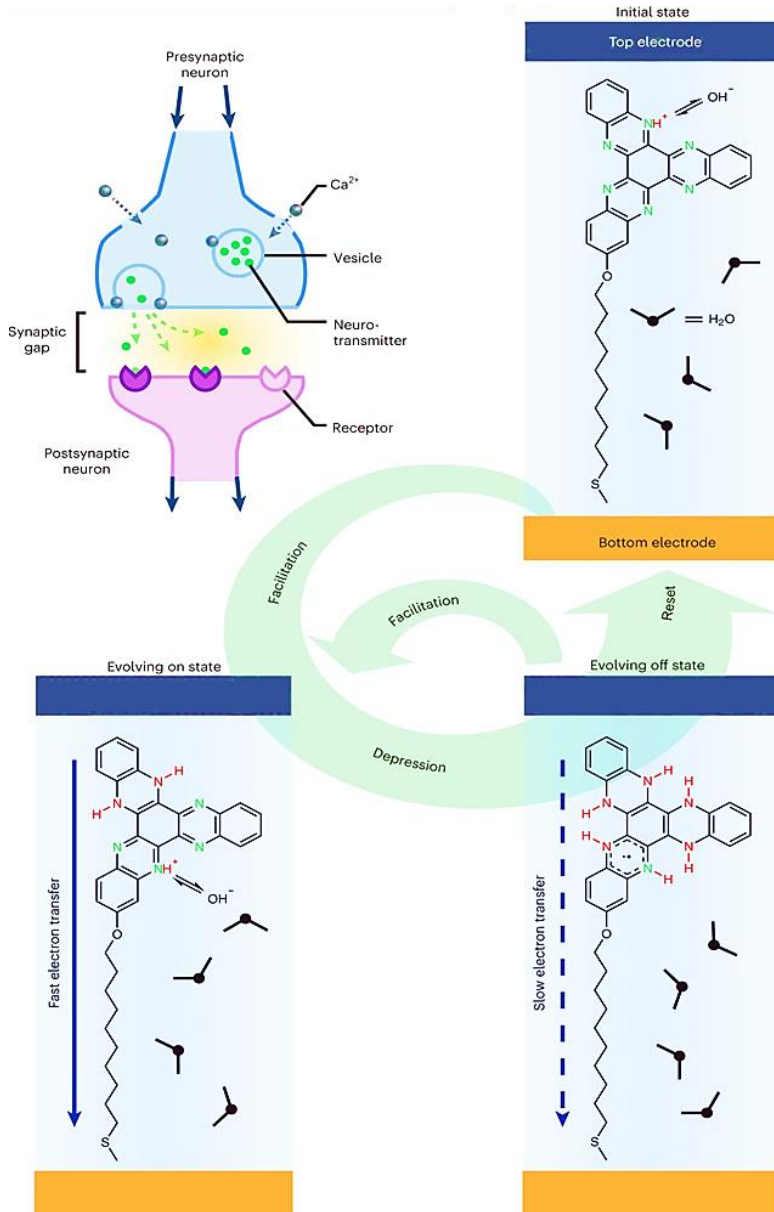
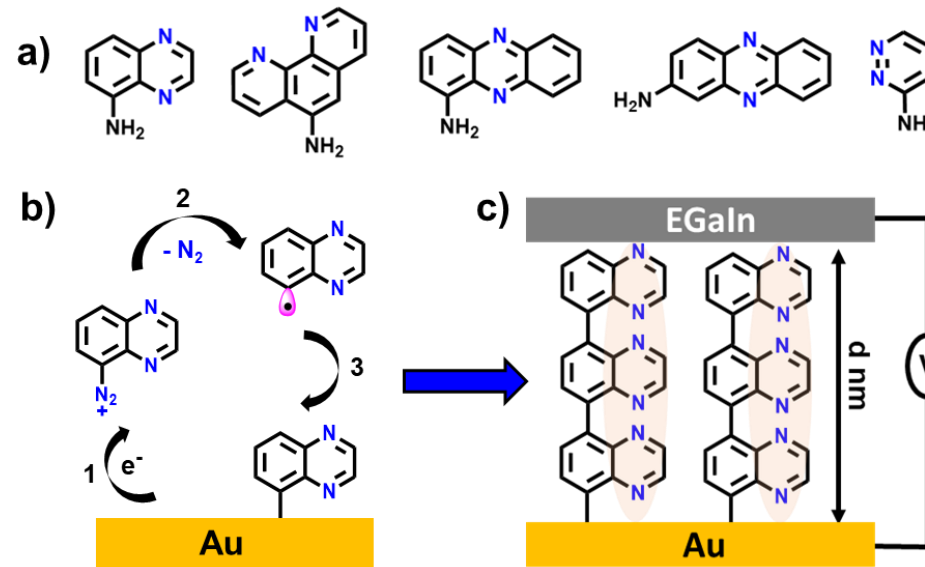


Research Project 1: Electrosynthesis of ultra-thin molecular films for solid-state dynamic molecular switches



HATNA = 5,6,11,12,17,18 hexaazatrinaphthylene

Thiol alkyl chain \rightarrow Highly reactive to moisture and oxygen, hence required inert conditions for fabrications and storage



How does electro-synthesized organic oligomer improve switching speed and device stability?

Electro-grafted dynamic molecular junction, an alternative to SAMs