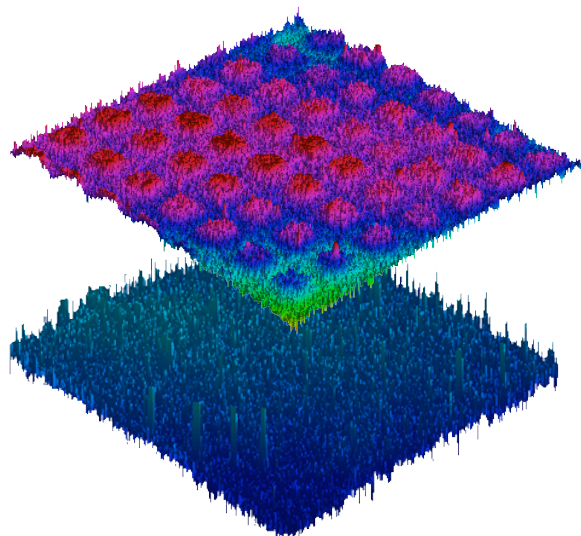


# Neurotransmitter-Functionalized Capture Surfaces

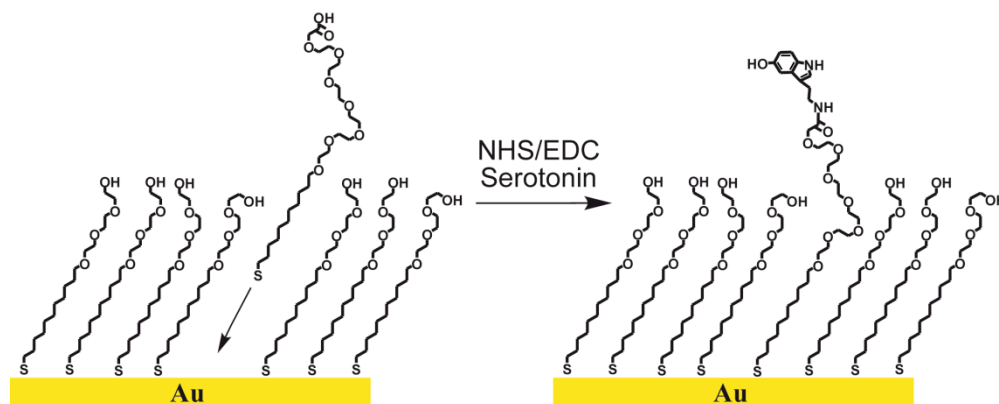
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Serotonin-functionalized regions selectively capture fluorescently labeled proteins that recognize serotonin but not those that recognize dopamine

Surfaces can be functionalized with small molecules for selective capture of large biomolecules. The placement and reactions of the molecules and the monolayer quality are both critical to selectivity.

Such capture surfaces will be used in functionally directed proteomics – to determine which proteins interact with which molecules and to measure expression patterns – and in biosensing, to select molecules from combinatorial libraries that recognize the small molecules to be used in sensors.



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The specific functional groups retained are critical to capturing proteins and the tethered molecules must be diluted in a well-defined matrix