Combinación de aproximaciones ascendentes y descendentes: Bottom-up and Top-down

Ricardo Garcia, Eugenio Coronado, and co-workers demonstrate on p. 588 large-scale patterning of single ferritin molecules by sequential (atomic force microscopy local oxidation) and parallel approaches (lithographically controlled wetting). The nanopattern size matches the size of the protein (~10 nm). Electrostatic interactions, capillary forces, surface functionalization, and nanolithography are used to achieve the desired protein organization.
APTES → Local Oxidation → Ferritin deposition

Si

25 nm

250 nm

250 nm

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