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CMOS-compatible selective biofunctionalization using a patterned sacrificial layer approach

The site-specific placement of biomolecules is highly desirable for the improvements of biosensor sensitivity and specificity. We present a CMOS-process compatible surface functionalization protocol for biomolecules based on a Al₂O₃ sacrificial layer and dual self-assembled monolayer coatings terminated with either azide or poly(ethylene oxide).

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