

Electronic Supplementary Information

Flow induced HeLa cell detachment kinetics show that oxygen-containing functional groups in graphene oxide are potent cell adhesion enhancers

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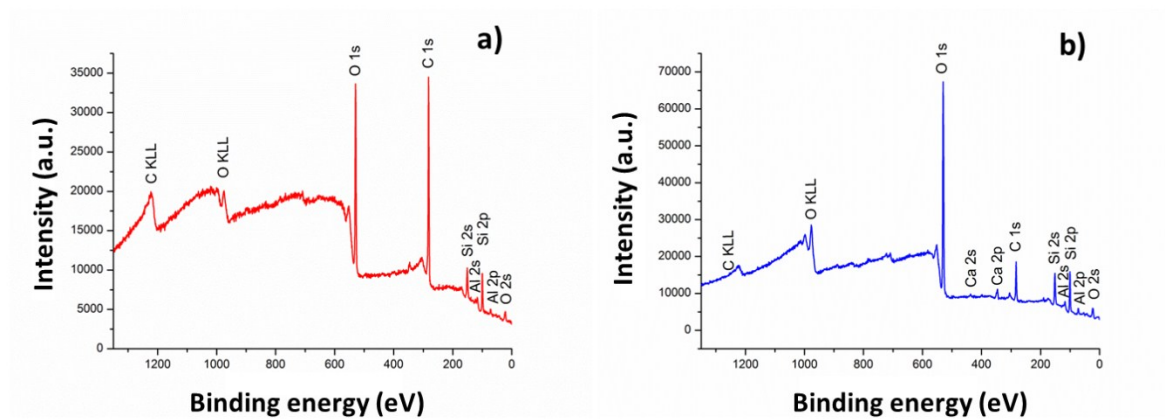


Fig. S1 Measured XPS survey spectra of graphene (a) and GO formed by 20 s plasma treatment (b).

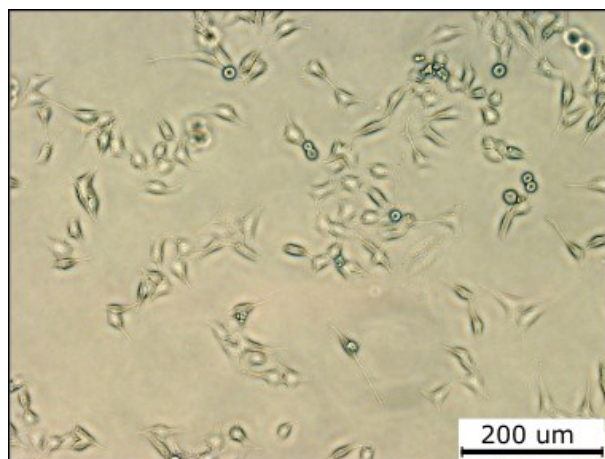


Fig. S2 HeLa cells after 48 hours' cultivation on glass substrate. Image was acquired using an Olympus IX 70 microscope at 10× magnification. Inset scale bar: 200 μm.

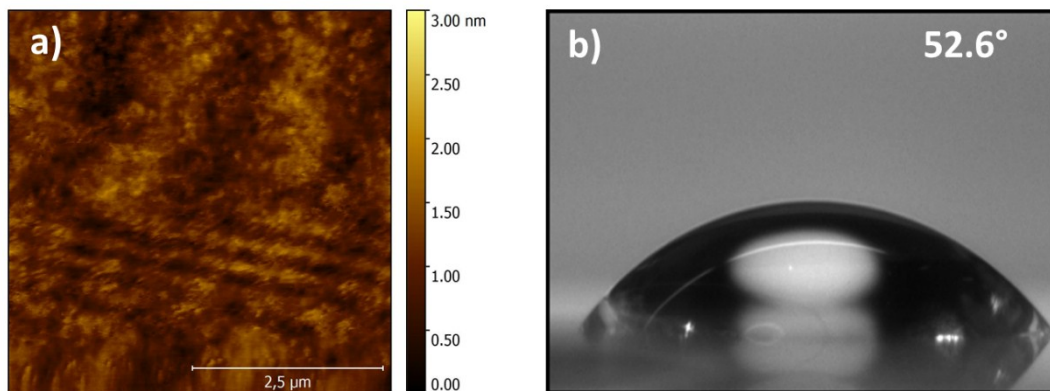


Fig. S3 Topographic mapping image of the glass substrate obtained by AFM (a); image used to determine the static sessile drop contact angle of wetting for water on glass (b).

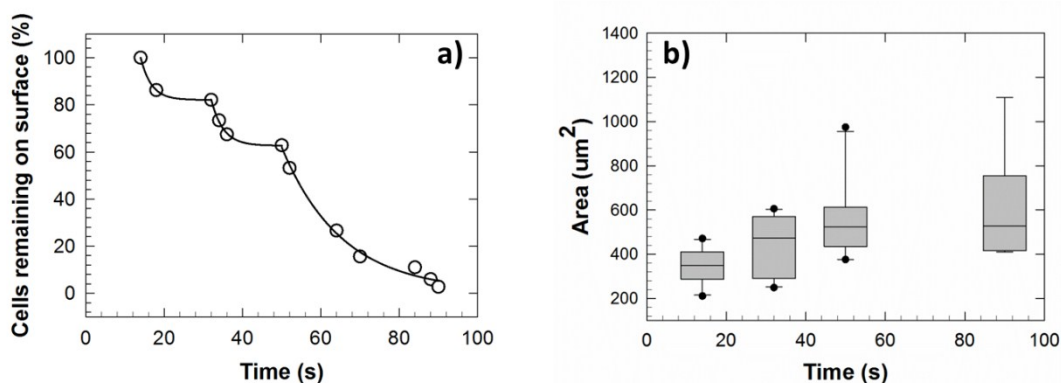


Fig. S4 Impinging jet detachment kinetics of HeLa cells on glass surface (a). Experiments were performed with populations of hundreds of cells; the relationship between the projected areas of HeLa cells and their detachment time on glass substrate (b).