

Culture of Mammalian Cells on Patterned Superhydrophilic/ Superhydrophobic Silicon Nanowire Arrays

Gaëlle Piret, Elisabeth Galopin, Yannick Coffinier, Rabah Boukherroub*

*Institut de Recherche Interdisciplinaire (IRI, CNRS-USR 3078), Université Lille 1, Parc
de la Haute Borne, 50 Avenue de Halley, BP 70478, 59658 Villeneuve d'Ascq and Institut
d'Electronique, de Microélectronique et de Nanotechnologie (IEMN, UMR CNRS 8520), Cité
Scientifique, Avenue Poincaré – BP 60069, 59652 Villeneuve d'Ascq, France*

Dominique Legrand

*Unité de Glycobiologie Structurale et Fonctionnelle (UMR CNRS 8576), Institut Fédératif
de Recherche n°147, Université Lille 1, 59655 Villeneuve d'Ascq cedex, France*

Christian Slomianny

*Inserm U1003, Laboratoire de Physiologie Cellulaire, Université Lille 1, 59655
Villeneuve d'Ascq cedex, France*

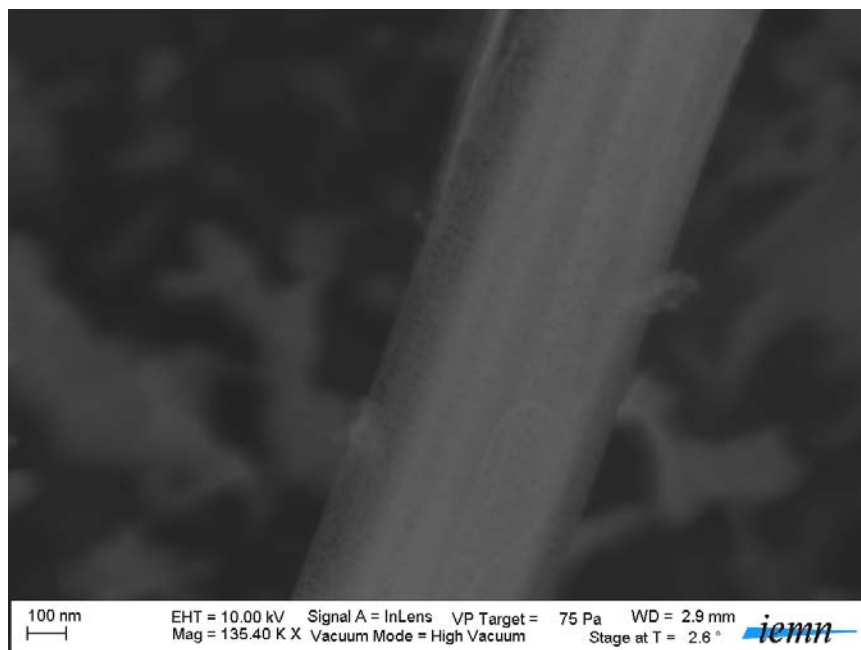
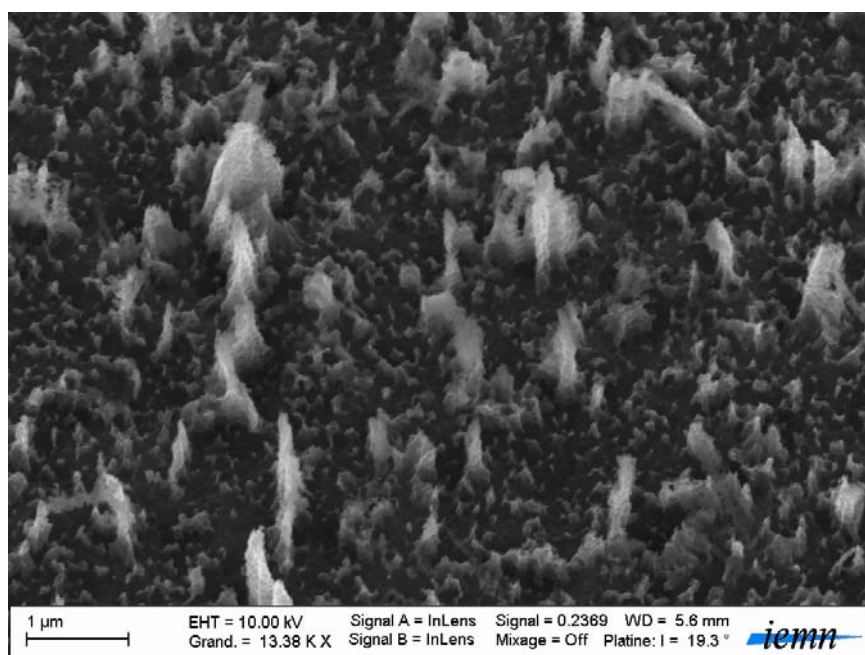


Figure S1: SEM image of the silicon nanowires substrate before immersion in PBS. It shows clearly the presence of pores.

(A)



(B)

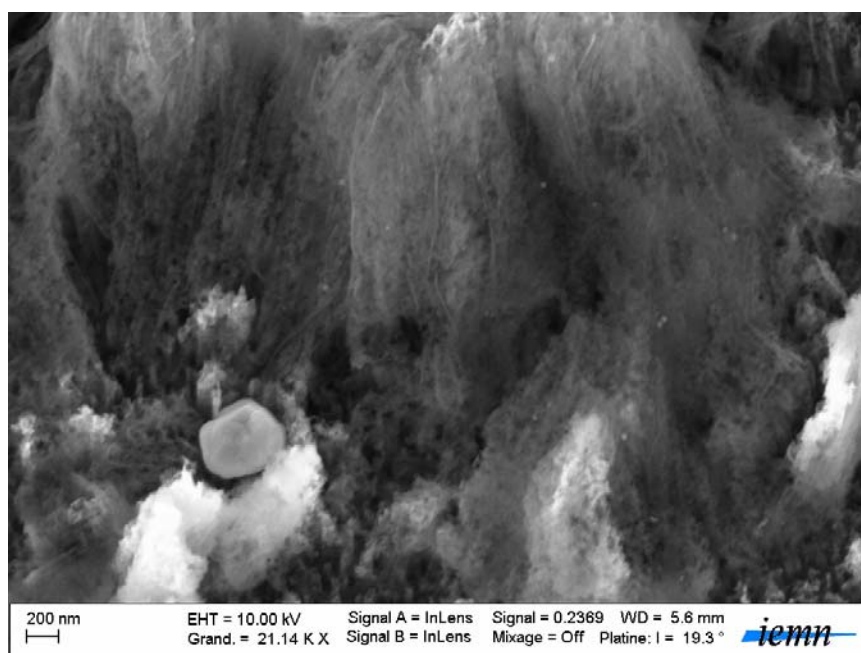


Figure S2. SEM images of the silicon nanowires substrate after immersion in PBS at 37 °C for 24 h. One clearly sees the enlargement of the pores on the remaining wires.