

# ADVANCED MATERIALS INTERFACES

## Supporting Information

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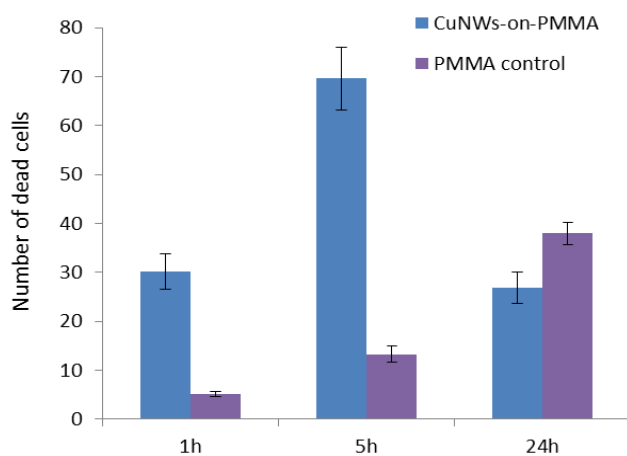
Fabrication of Copper Nanowire Films and their Incorporation into Polymer Matrices for Antibacterial and Marine Antifouling Applications

*Shan Jiang, Thammanoon Sreethawong, Serina Siew Chen Lee, Michelle Bee Jin Low, Khin Yin Win, Agata Maria Brzozowska, Serena Lay-Ming Teo, G. Julius Vancso, Dominik Jańczewski,\* and Ming-Yong Han\**

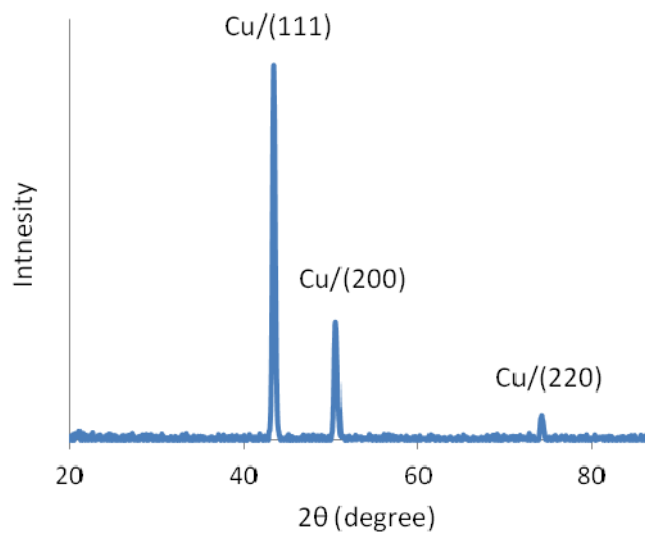
## Supporting Information

### **Fabrication of Copper Nanowire Films and their Incorporation into Polymer Matrices for Antibacterial and Marine Antifouling Applications**

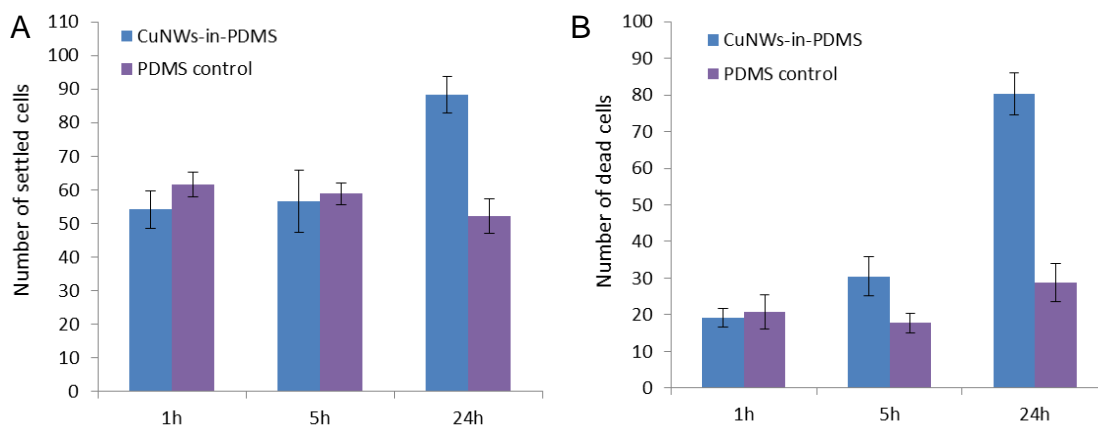
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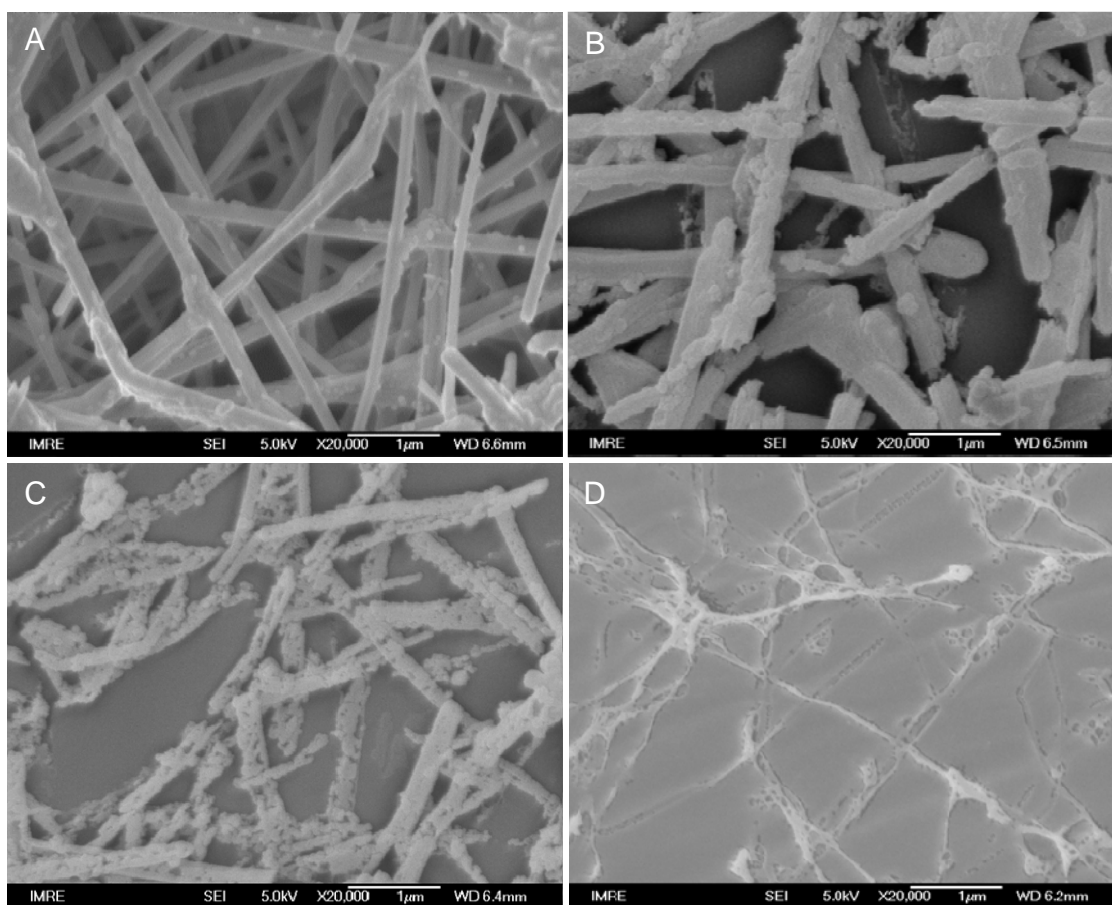
**Figure S1.** Number of dead *E. coli* cells on CuNWs-on-PMMA film and PMMA slide as a control.



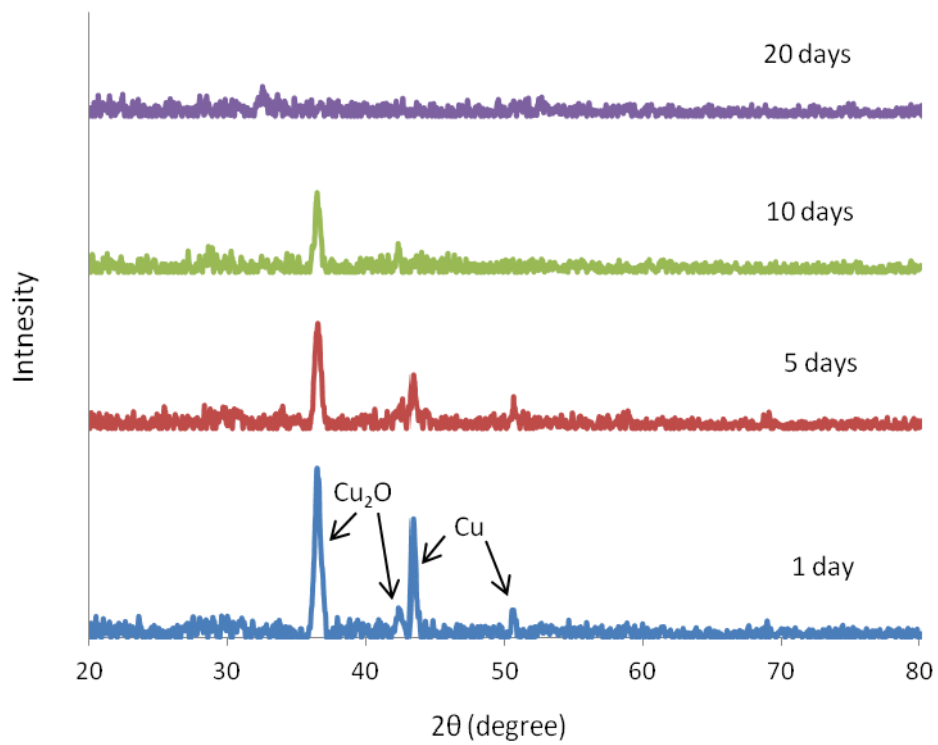
**Figure S2.** XRD pattern of CuNWs-in-PDMS film.



**Figure S3.** (A) Number of total cells and (B) number of dead cells after culturing in PBS for 1, 5, 24 h on CuNWs-in-PDMS and PDMS control.



**Figure S4.** Field emission SEM images of CuNWs-on-PMMA films loaded with CuNWs at  $250 \mu\text{g}/\text{cm}^2$  after soaking in seawater for (A) 1 d, (B) 5 d, (C) 10 d, and (D) 20 d.



**Figure S5.** XRD patterns of CuNWs-on-PMMA films loaded with CuNWs at  $250 \mu\text{g}/\text{cm}^2$  after soaking in seawater for 1, 5, 10 and 20 d.