Supporting Information

Towards Elucidating the Effects of Purified MWCNTs on Human Lung Epithelial cells

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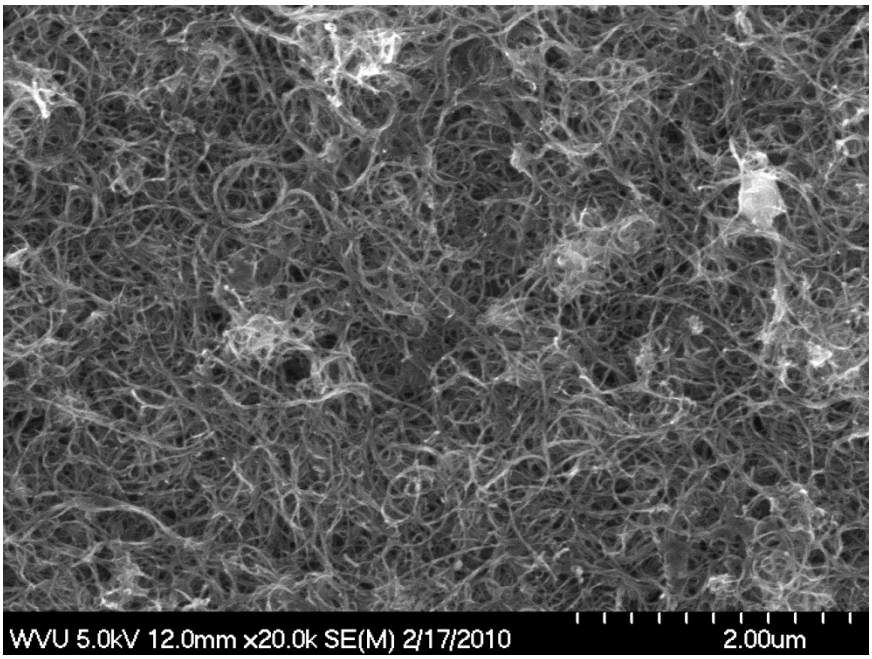
Figure S1: SEM image of (a) pristine MWCNTs and (b) purified MWCNTs.

(a)



(b)

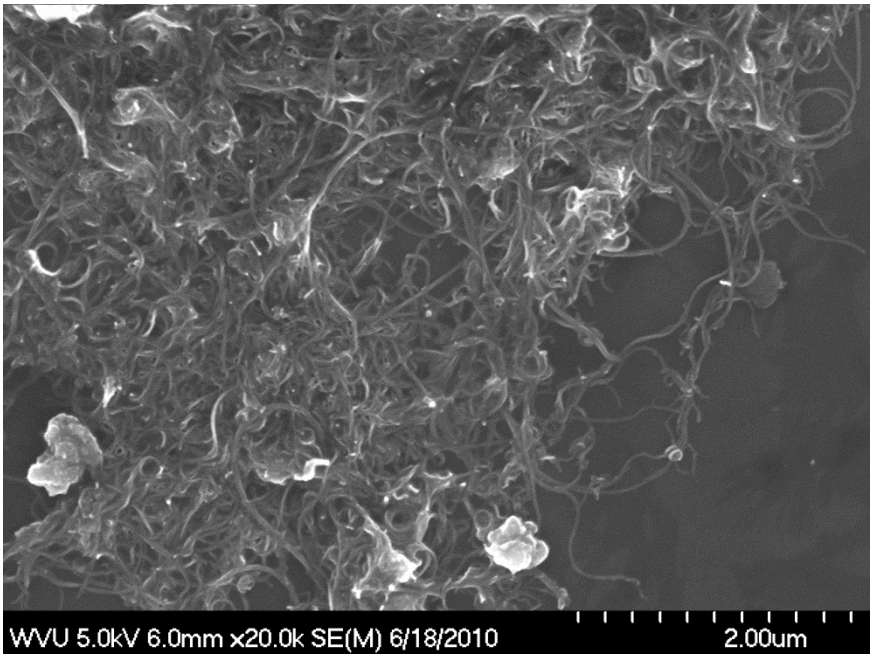


Table S1: Length distribution of pristine and purified MWCNTs

Length (µm)	Mean	Standard Deviation
Pristine MWCNTs	4261	2354
Purified MWCNTs	792	254

Table S2: Energy dispersive X-ray (EDX) spectroscopy allowed elemental content analysis for both pristine and purified MWCNTs.

Element	Pristine MWCNTs (wt%)	Purified MWCNTs (wt%)
C	87.41	86.53
O	3.88	10.65
Si	1.09	0.76
S	0.23	0.00
Cu	6.15	1.17
Fe	1.24	0.89

Table S3: Solubility of pristine, purified and protein-functionalized MWCNTs in different media.

Type	DI Water (mg/ml)	DMEM+FBS (mg/ml)
Pristine MWCNTs	0.13	1.57
Purified MWCNTs	0.26	2.82
Protein functionalized MWCNTs	1.23	2.13

Table S4: Effect of MWCNTs treatment on the cell cycle.

Cell cycle	G1 (%)	S (%)	G2 (%)
Control cells	45.36±2.06	22.27±2.76	22.77±3.21
Cells exposed to purified MWCNTS	51.52±2.88	16.52±1.43	25.85±1.87