

Toxicological assessment of multi-walled carbon nanotubes *in vitro*: potential mitochondria effects on male reproductive cells

Supplementary Material

Supplement table 1: Primers used in gene expression analysis

Primers	Sequence
mt-Nd1 F	5'-TCCGAGCATCTTATCCACGC-3'
mt-Nd1 R	5'-GTATGGTGGTACTCCCGCTG-3'
mt-Nd2 F	5'-ATCCTCCTGGCCATCGTACT-3'
mt-Nd2 R	5'-ATCAGAAGTGGAATGGGGCG-3'
mt-Nd3 F	5'-TTGCATTCTGACTCCCCAA-3'
mt-Nd3 R	5'-GACGTGCAGAGCTTGTAGGG-3'
mt-Nd4 F	5'-TAATCGCACATGGCCTCACA-3'
mt-Nd4 R	5'-GCTGTGGATCCGTTCGTAGT-3'
mt-Nd41 F	5'-TAGTATATCGCTCACACCTC-3'
mt-Nd41 R	5'-GTAGTCTAGGCCATATGTG-3'
mt-Nd5 F	5'-TAACCGCATCGGAGACATCG-3'
mt-Nd5 R	5'-GTGGAGGCCAAATTGTGCTG-3'
mt-Nd6 F	5'-GGATTGGGGTAGCGGCAATA-3'
mt-Nd6 R	5'-CCGCAAACAAGATCACCCA-3'
mt-Cytb F	5'-ACGCAAACGGAGCCTCAATA-3'
mt-Cytb R	5'-CCTCATGGAAGGACGTAGCC-3'
mt-Co1 F	5'-GCTAGCCGCAGGCATTACTA-3'
mt-Co1 R	5'-CTCCTCCAGCGGGATCAAAG-3'
mt-Co2 F	5'-AACCGAGTTCGTTCTGCCAAT-3'
mt-Co2 R	5'-CTAGGGAGGGGACTGCTCAT-3'
mt-Co3 F	5'-AGCCTTTTCAGCCCTCCTTC-3'
mt-Co3 R	5'-GTGGCCTTGGTAGGTTCCCTT-3'
mt-Atp6 F	5'-GCAGTCCGGCTTACAGCTAA-3'
mt-Atp6 R	5'-GGTAGCTGTTGGTGGGCTAA-3'
mt-Atp8 F	5'-ACAAACATTCCCCTGGCAC-3'
mt-Atp8 R	5'-TTGGGGTAATGAATGAGGCAA-3'
18S ribosomal RNA F	5'-GGGAGCCTGAGAAACGGC-3'
18S ribosomal RNA R	5'-GGGTCGGGAGTGGGTAATTT-3'
8.7-kb fragment F	5'-TTGAGACTGTGATTGGCAATGCCT-3'
8.7-kb fragment R	5'-CCTTTAATGCCCATCCCGGACT-3'
6.5-kb fragment F	5'-TATCTCTCTTCTTCACTTCTCCCCTGG-3'
6.5-kb fragment R	5'-CGTGATGCCGCGTTGAGGGTCTCCTG-3'
10-kb mitochondria fragment F	5'-GCCAGCCTGACCCATAGCCATATTAT-3'
10-kb mitochondria fragment R	5'-GAG AGATTTTATGGGTGTATTGCGG-3'
117-bp mitochondria fragment F	5'-CCC AGCTACTACCATCATTCAAGT-3'

117-bp mitochondria fragment R 5'-GATGGTTTGGGAGATTGGTTGATG-3'

F: forward; R: reverse

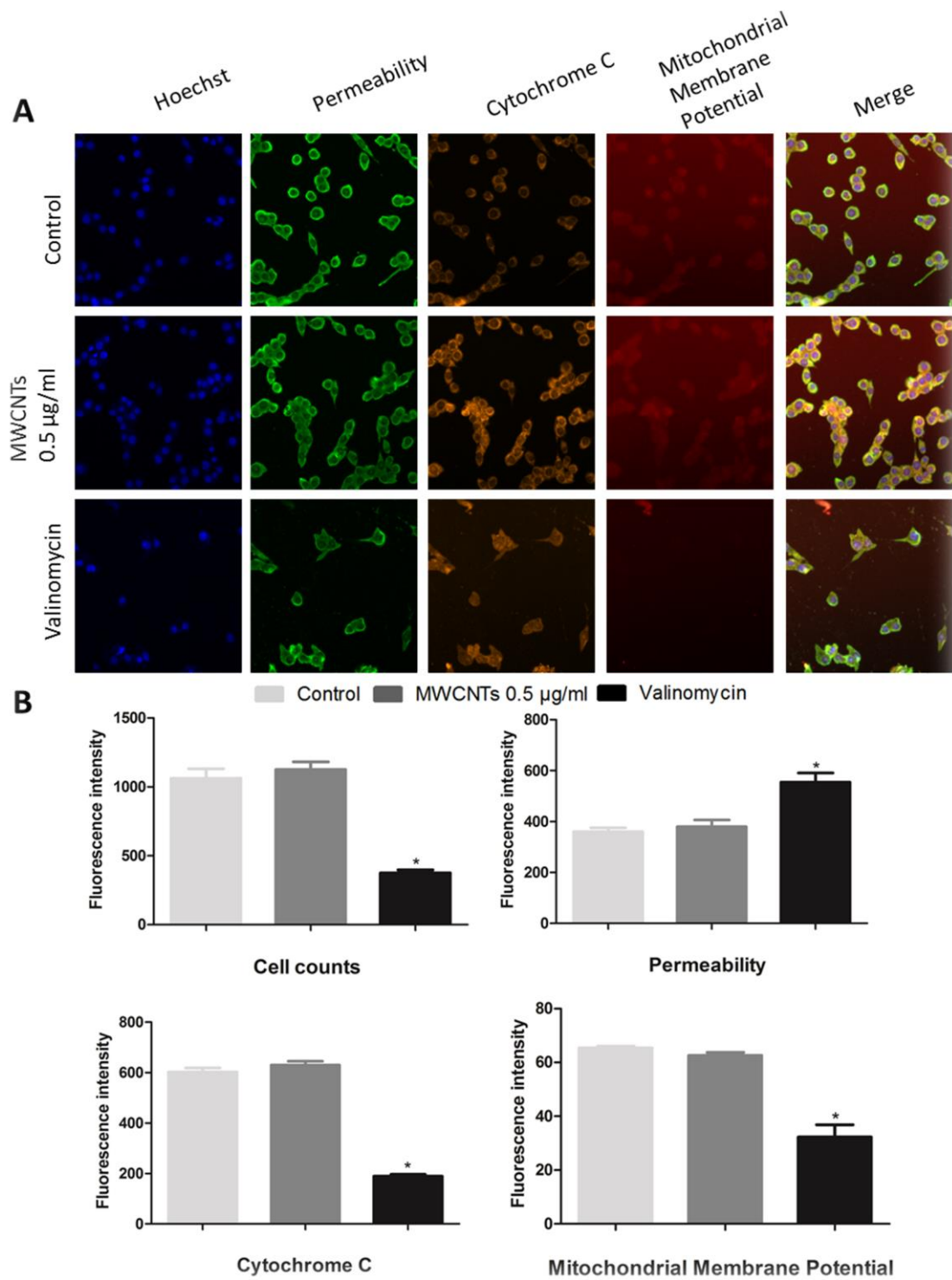


Figure S1: High content screening (HCS) assays. The images (A) and values (B) of permeability, mitochondrial membrane potential and cytochrome c in GC-2spd cells were captured and analyzed by HCS after MWCNTs exposure. Significance indicated by: * $p < 0.05$, versus control.