



## Supplementary Materials: Metallic Nanoparticle-Decorated Polydopamine Thin Films and Their Cell Proliferation Characteristics

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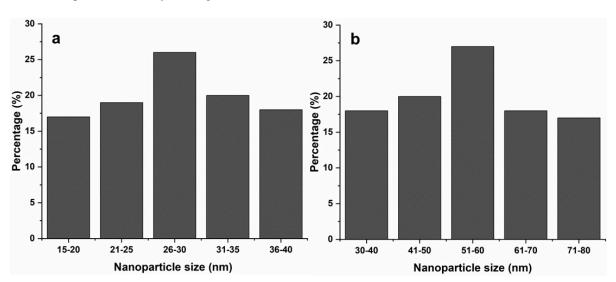


Figure S1. Nanoparticle size distribution of AuNPs (a), and AgNPs (b).

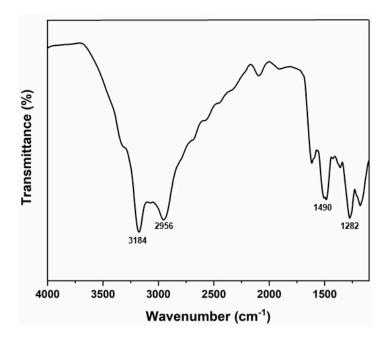
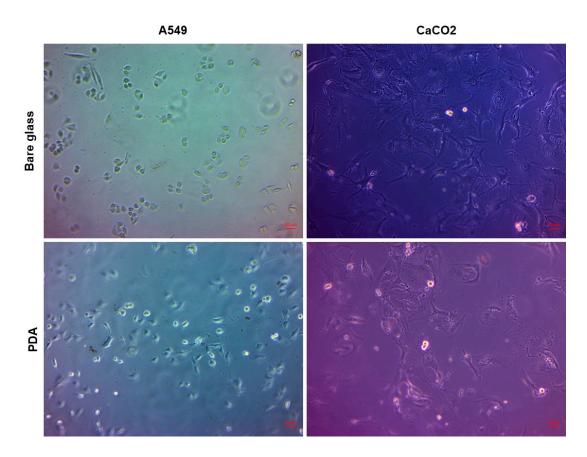


Figure S2. FT-IR spectrum of PDA thin film onto the glass slide.



**Figure S3.** The preliminary study for the cell number optimization and optic images of A549 and CaCO2 cell lines incubated with an initial cell number of 7500 cells per well onto the bare and PDA coated glass. Scale bars are  $20 \,\mu$ m.

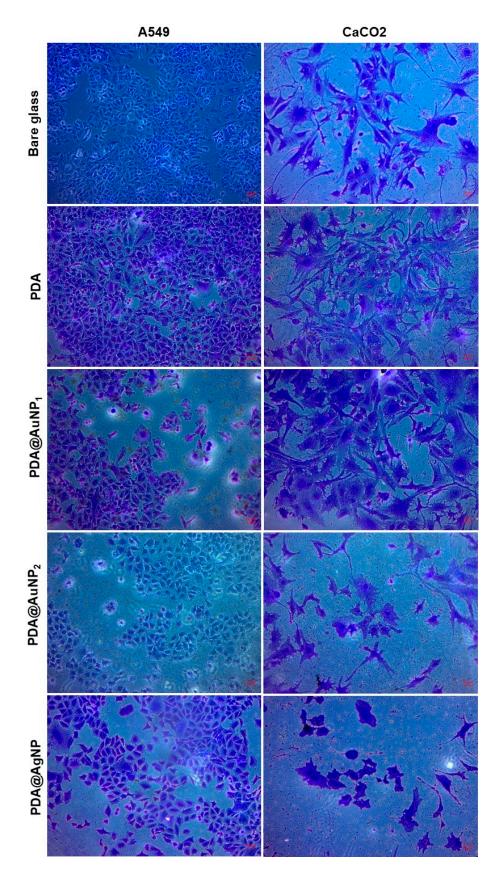


Figure S4. Violet staining of A549 and CaCO2 cell lines onto different thin films at 20× magnification. Scale bars are 20  $\mu m.$ 

Substrate	Number of Adhered Cells (Cells/0.2 mm <sup>2</sup> )	
	A549	CaCO2
Bare Glass	$357 \pm 21.64$	$74 \pm 7,98$
PDA	$416 \pm 22.31$	$91 \pm 6,34$
PDA@Au1	$234 \pm 14.17$	89 ± 3,67
PDA@Au <sub>2</sub>	$198 \pm 10.76$	$54 \pm 2,28$
PDA@Ag	$176 \pm 19,13$	31 ± 5,39

Table S1. The number density of adhered cells onto the different substrates.



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