

## *Supporting Information*

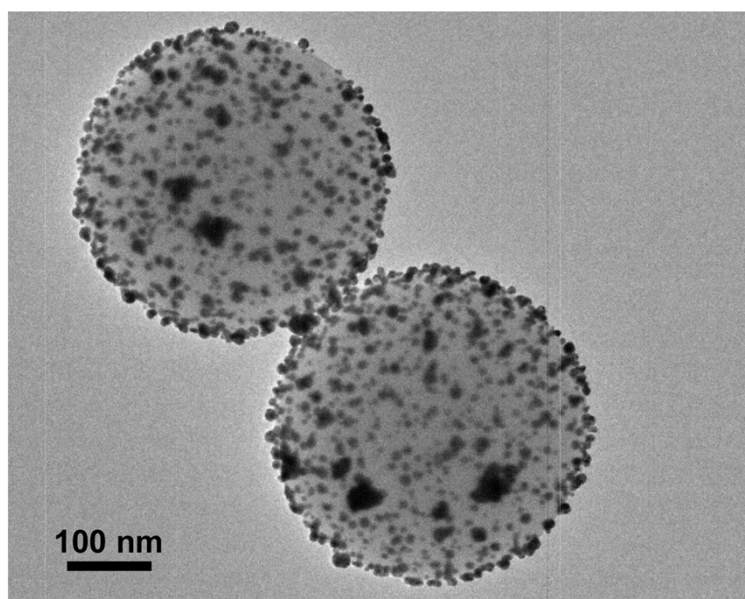
### **Au nanoparticle decorated resin microspheres: Synthesis and application in electrochemical cytosensors for sensitive and selective detection of lung cancer A549 cells**

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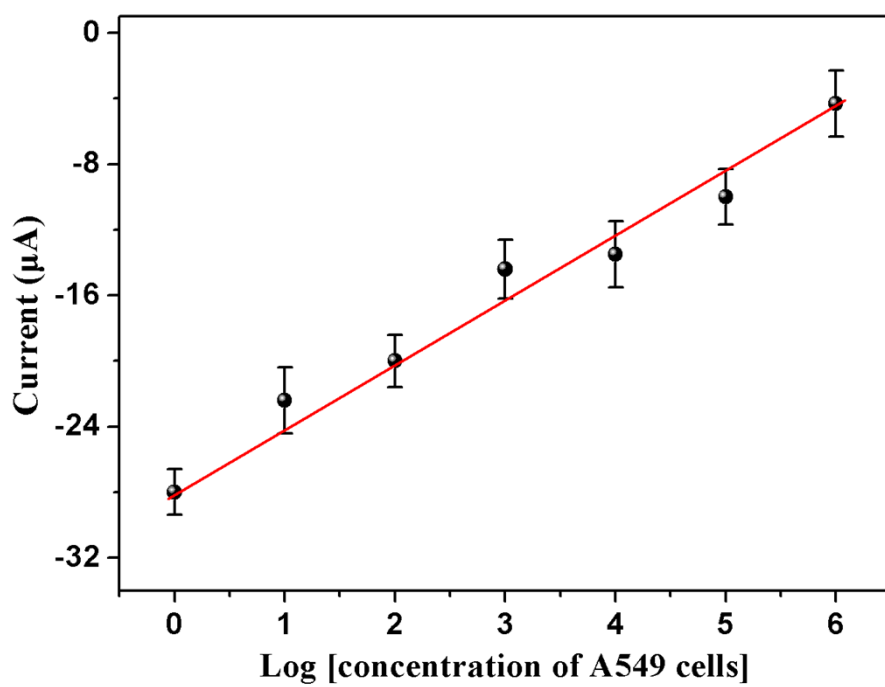
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**Figure S1** Typical TEM image of the as-prepared AuNPs/MAPR microspheres.

<b>Cytosensors</b>	<b>Detection limit (cells mL<sup>-1</sup>)</b>	<b>References</b>
Electrochemiluminescence	300	<i>Biomacromolecules</i> , 2013, <b>14</b> , 834–840
Surface acoustic wave aptasensor array	32	<i>Biosens. Bioelectron.</i> . 2014, <b>60</b> , 318–324
Responsive Enzyme Mimicking/colorimetric detection	100	<i>ACS Appl. Mater. Interfaces</i> 2014, <b>6</b> , 6434–6442
Folic acid-modified electrode	10	<i>Chem. Commun.</i> 2012, <b>48</b> , 2594– 2596
Ag@BSA microspheres/Au electrode	20	<i>Biosens. Bioelectron.</i> . 2013, <b>41</b> , 656–662
anti-EGFR/AuNPs/MAPR/electrode	5	This work

**Table S1** Comparison of different cytosensors for detection of cancer cells.



**Figure S2** The calibration plots of the changes of the SWV current response via the logarithm values of A549 cells concentrations in human serum samples.