

## Dual Purpose Fibre – SERS pH Sensing and Bacterial Analysis

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### Supplementary Information

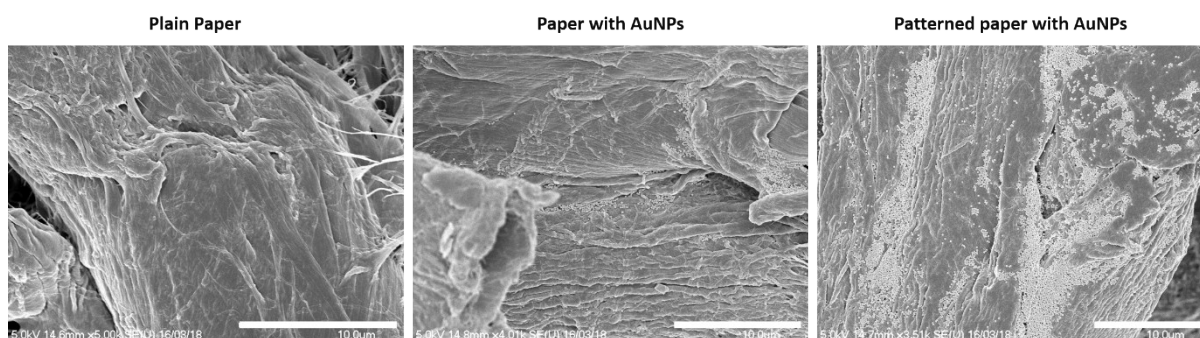


Figure S1. Scanning electron microscopy (SEM) images of plain filter paper (without AuNPs), 2  $\mu$ L droplet AuNPs on filter paper fibres, and wax patterned filter paper with 2  $\mu$ L droplet AuNPs. Scale bar 10  $\mu$ m. Images show a higher density of AuNPs using wax patterned substrate.

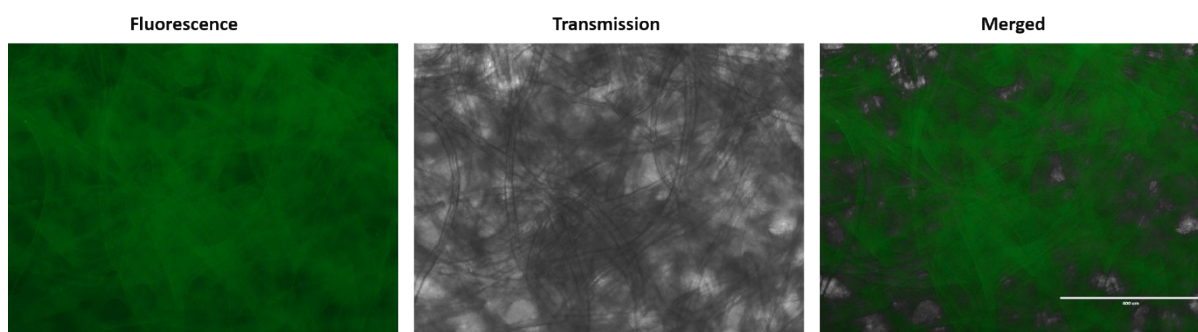


Figure S2. Fluorescence images of plain filter paper (without AuNP or bacteria) taken on an EVOS<sup>®</sup> microscope. Images demonstrate high autofluorescence of paper taken using an excitation of 480 nm.