

Supporting Information for:

**Tobacco Mosaic Virus-Functionalized  
Mesoporous Silica Nanoparticles, a Wool  
Ball-like Nanostructure for Drug Delivery**

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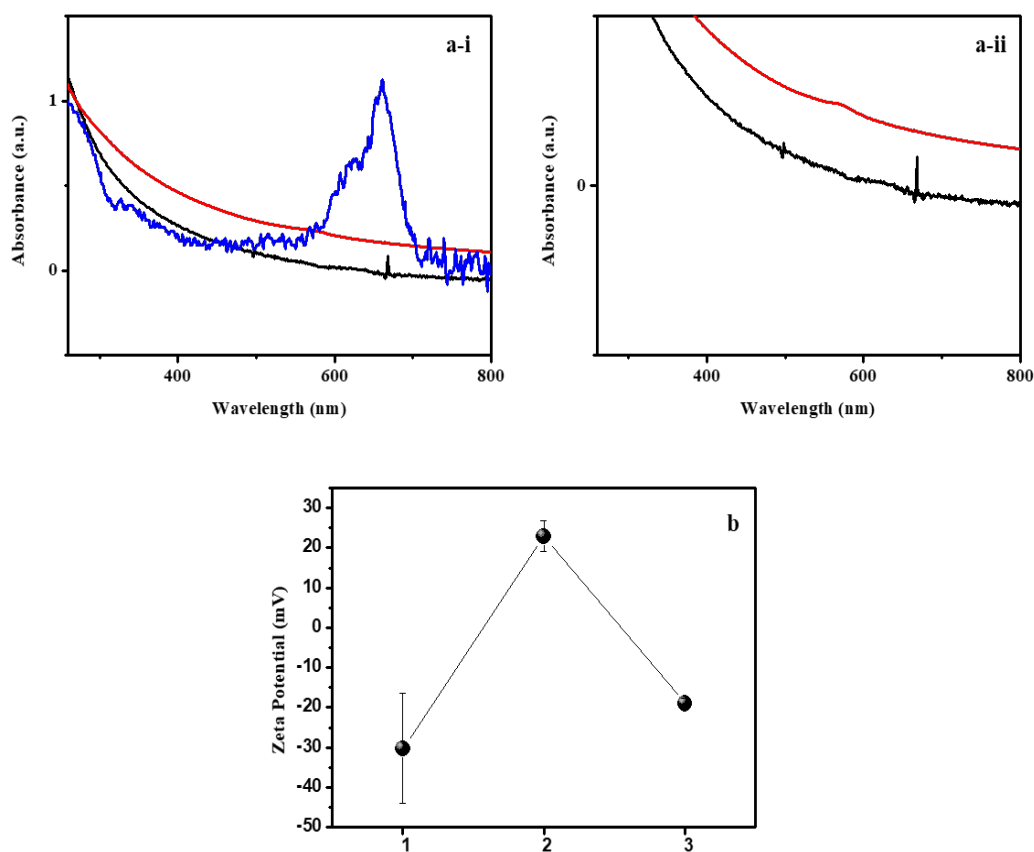
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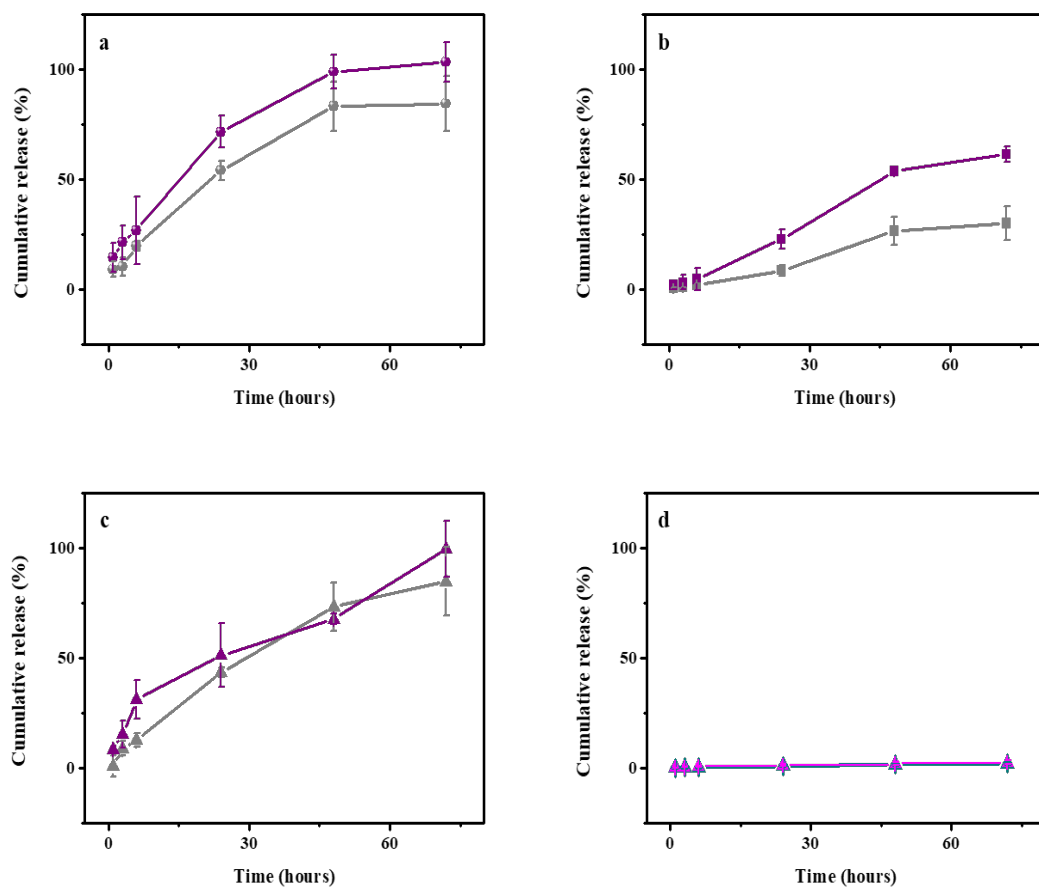
## **List of Contents**

Figure S1. (a) UV/Vis spectra of different particles. (b) ZP of the different particles. ...S3

Figure S2. Cumulative release from both RBITC and CY5 from the different particlesS4



**Figure S1.** (a-i) UV/Vis spectra of bare MSNP (black line), RBITC-MSNP (red line) and MSNP@TMV (blue line). (a-ii) UV-Vis spectra inlet of bare MSNP (black line), RBITC-MSNP (red line), showing a slight shoulder at 554 nm from RBITC (a strong peak is not observed due to the scattering of the MSNPs resulting in the shifted baseline). (b) Zeta potential of (1) bare MSNP; (2) MSNP-PDADMAC; (3) MSNP@TMV. Standard deviation is shown from 3 measurements.



**Figure S2.** Cumulative release of RBITC (loaded into the MSNP) from: (a) RBITC-MSNP; (b) RBITC-MSNP-APTS; and (c) MSNP@TMV under physiological conditions at pH 7.4 (purple), and under lysosomal or tumoral conditions at pH 5.0 (gray). (d) Cumulative release of Cy5 (covalently attached to TMV) from MSNP@TMV at pH 7.4 and pH 5.0 is in cyan and pink, respectively. Standard deviation of three replicates is shown for each sample.