S1 Characterization of Gold Nanoparticles (GNPs)

We used Dynamic Light Scattering (DLS), Transmission Electron Microscopy (TEM), and UV visible spectroscopy to characterize the size distribution of GNPs used for our experiments.
1. TEM images of 20 and 50 nm diameter GNPs

![TEM images of 20 nm and 50 nm diameter GNPs](image)

Fig. S1 TEM images of 20 (left) and 50 nm (right) diameter GNPs.

The scale bar represents 100 nm

2. Table summarizing the TEM, DLS, and UV data for 20 and 50 nm GNPs

<table>
<thead>
<tr>
<th></th>
<th>UV abruption Wavelength (nm)</th>
<th>Diameter (nm) TEM</th>
<th>Diameter (nm) DLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 nm</td>
<td>520</td>
<td>19.5 ± 3.3</td>
<td>24.2 ± 0.6</td>
</tr>
<tr>
<td>50 nm</td>
<td>525</td>
<td>52.4 ± 5.2</td>
<td>52.6 ± 0.8</td>
</tr>
</tbody>
</table>