Electronic supplementary information

Size Tuning of Au Nanoparticles fromed by Electron Beam Irradiation of Au$_{25}$ Quantum Clusters Anchored Within and Outside of Dipeptide Nanotubes

Perumal Ramasamy$^a$,† Samit Guha$^a$,‡ Edakkattuparambil Sidharth Shibu,†

Theruvakkattil S. Sreeprasad,† Soumabha Bag,‡ Arindam Banerjee,‡,* Thalappil Pradeep‡,*

$^a$ These two authors have contributed equally.

† Dr. Perumal Ramasamy, Edakkattuparambil Sidharth Shibu , Theruvakkattil S. Sreeprasad , Soumabha Bag and Prof. Thalappil Pradeep
DST Unit on Nanoscience, Department of Chemistry and Sophisticated Analytical Instrument Facility, Indian Institute of Technology Madras, Chennai 600 036, India.
Fax: + 91-44 2257-0545.
E-mail: pradeep@iitm.ac.in

‡ Samit Guha and Dr. Arindam Banerjee
Department of Biological Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032, India.
Fax: (+)91-33-2473-2805
E-mail: bcab@iacs.res.in
Figure S1: EDAX analysis of DPNTs with gold before exposure to electron beam indicates the presence of C, N, O, S and Au. The carbon contribution is also due to the grid.

Figure S2: EDAX analysis of DPNTs with gold after exposure to electron beam indicates the presence of C, N, O, S and Au. The carbon contribution is also due to the grid.
**Figure S3:** Size distributions of gold nanoparticles in DPNTs/Au composite with respect to 100 keV electron beam exposure time. The nanoparticles show homogeneity at any given time.
Figure S4: Schematic representation for formation of uniform gold nanoparticles on DPNTs due to exposure to electron beam.