SUPPLEMENTARY MATERIAL

Quantitative detection of thiols by Surface Enhance Raman Scattering (SERS) using self-assembled gold nanoparticle cluster arrays

Sanghamitra Dinda,‡ Fung Ling Yap,‡ Vignesh Suresh,§ Raju Kumar Gupta,§ Debojyoti Das‡ and Sivashankar Krishnamoorthy‡†ψ*

‡ Department of Biotechnology, School of Pharmaceutical Sciences, Siksha O Anushandan University (SOA), Bhubaneswar, 751030, India
‡ Institute of Materials Research and Engineering (IMRE), Agency for Science, Technology and Research (A*STAR), 3, Research Link, 117602, Singapore
§ Department of Chemical and Biomolecular Engineering, National University of Singapore, 117576, Singapore
€ Department of Chemical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India
ψ Nanomaterials Unit, Science and Analysis of Materials (SAM) department, Centre de Recherche Public Gabriel Lippmann, 41, Rue du Brill, Belvaux, 4422, Luxembourg

* Address correspondence to: Sivashankar Krishnamoorthy, krishnam@lippmann.lu
Figure S1. (a) Surface enhanced Raman spectra of 2,2’-Bipyridine molecule and (b) plot of intensity versus concentration for band at 1602 cm$^{-1}$, shows linear response in the range of 1nM-1μM, with calibration sensitivity of 300.9 (A change in SERS intensity of 300.9 per order of magnitude change in concentration of [BPE]).