

Multicomponent nanosystem for capturing circulating tumor cells from cancer patients with PD-L1 as an immunotherapy oncotarget

Ganesh Khutale,^{†a,b} Saloni Andhari,^{†a,b} Rituja Gupta,^c Gourishankar Aland,^a Shashwat Banerjee,^a Kiran Todkar,^a Milind Pore,^a Vrushali Khobragade,^a Alain D'Souza,^{a,b} Narendra Kale,^d Aravindan Vasudevan,^a Atul Bharde,^b Sreeja Jayant,^a Yuvraj Patil^c and Jayant Khandare^{*a,b,c,e,f}

^a Actorius Innovations and Research, Pune 411057, India

Email: jayant@actorius.co.in

^b OneCell Diagnostics, Pune 411057, India

^c School of Health Sciences and Technology, Dr. Vishwanath Karad MIT World

Peace University, Kothrud, Pune 411038, India

^d Center for Nanomedicine, The Johns Hopkins University School of Medicine, Baltimore, Maryland 21287, United States

^e Actorius Innovations and Research, Simi Valley, CA 93063, USA

^f School of Consciousness, Dr. Vishwanath Karad MIT World Peace University, Kothrud, Pune 411038, India

[†]Contributed equally.

Supporting Information

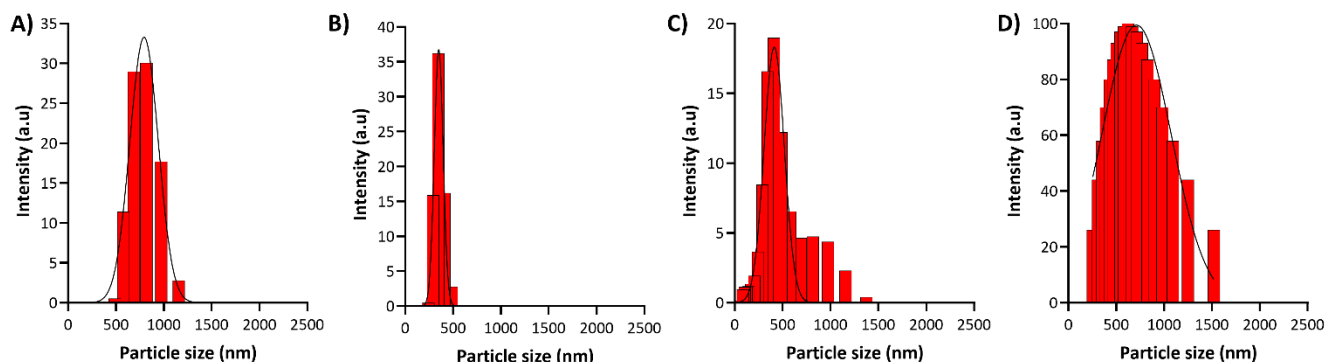


Figure S1. Particle size distribution of A) Fe₃O₄ NPs, B) Fe-GSH NPs, C) Fe-GSH-PAMAM NPs and D) Fe-GSH-PAMAM-GO NPs.

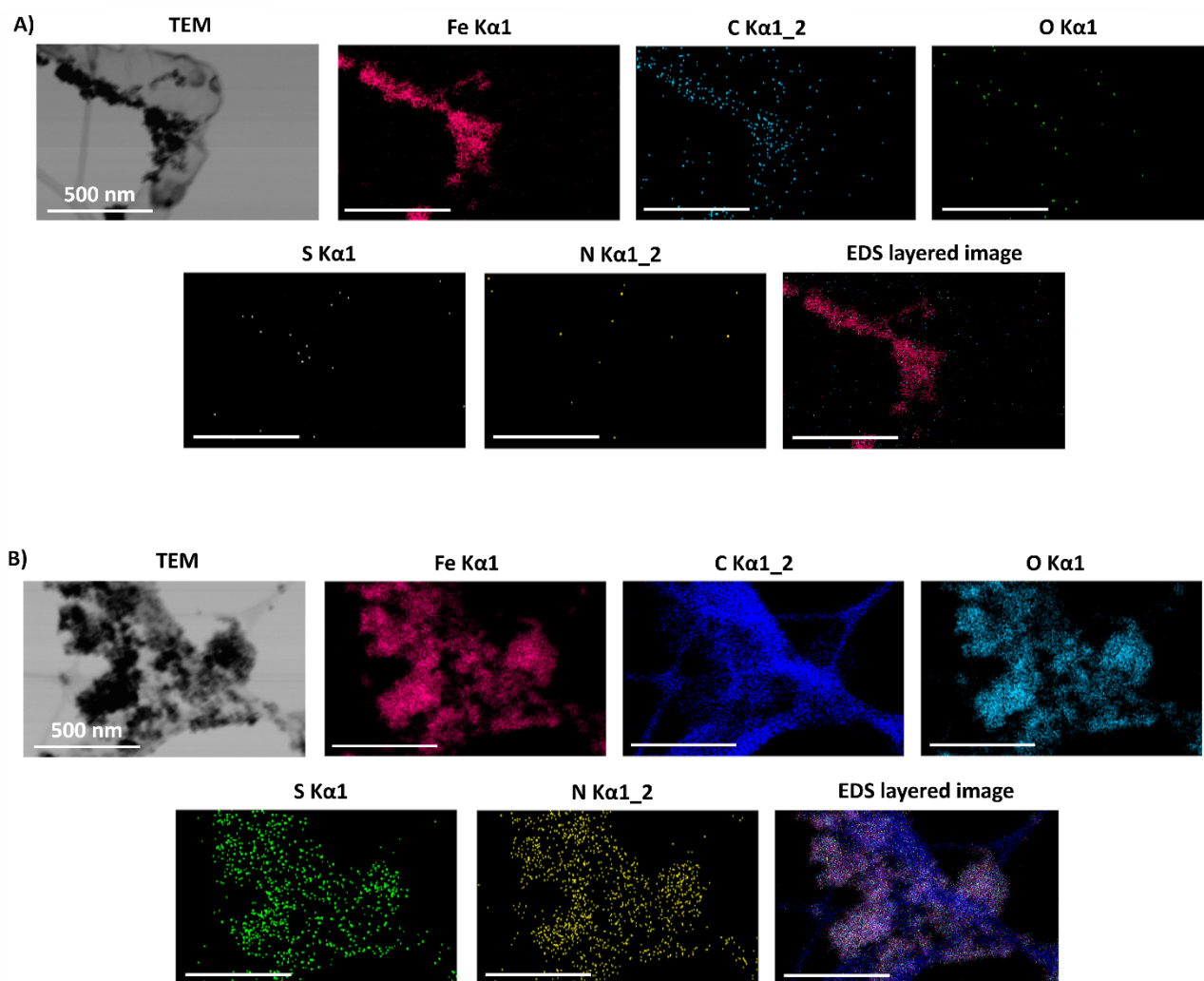


Figure S2. TEM micrograph and corresponding EDX maps of **A)** Fe-GSH NPs and **B)** Fe-GSH-PAMAM NPs representing the Fe, C, O, S and N content in the captured images.