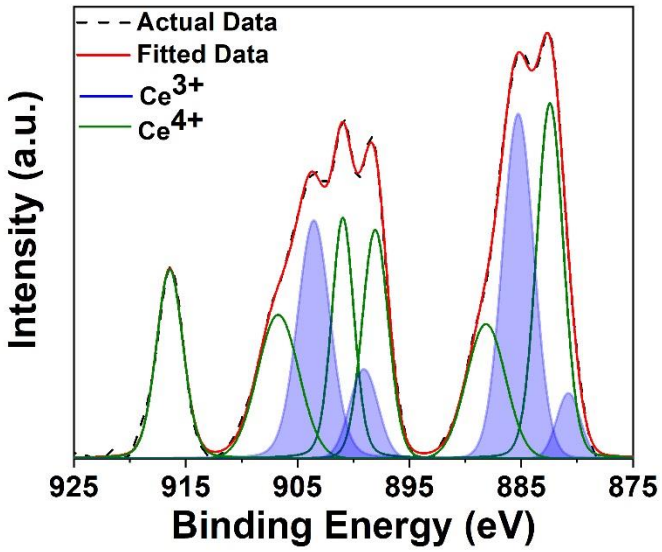
Electronic Supplementary Material (ESI) for Nanoscale.

Engineered Nanoceria cytoprotection In Vivo: mitigation of Reactive Oxygen Species and Double-stranded DNA breakage due to Radiation Exposure

Soumen Das [‡†1], Craig J. Neal [‡1], Julian Ortiz[1], Sudipta Seal[1,2]*

[1]Materials Science and Engineering, Advanced Materials Processing Center, University of Central Florida, Orlando, FL 32816, USA
[2]College of Medicine, University of Central Florida, Orlando, FL 32816, USA
[‡]these authors contributed equally

*Corresponding author: Sudipta Seal, sudipta.seal@ucf.edu
University of Central Florida, Engineering 1, Rm 207
P.O. Box 162455; Orlando, FL 32816
Present Addresses
† Aviana Molecular Therapeutic
3251 Progress Drive, Orlando, FL 32826



Supplemental Figure 1. X-ray Photoelectron spectroscopy. Cerium oxide nanoparticles were analyzed for binding energy at values particular for Ce^{3+} and for Ce^{4+}. Calculating these values in ratio allows the determination of Ce^{3+}:Ce^{4+}. This formulation of CNPs shows a very high portion of Ce^{3+}, suggestive of cyto-protective radical oxygen scavenging activity.

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