

Supporting Information

Efficiently normalizing leukopoiesis by gadofullerene nanoparticles to ameliorate radiation-triggered myelosuppression

Wang Jia,^{a, b} Xue Li,^{a, b} Tian Zhang,^c Chunru Wang,^{a, b} and Mingming Zhen^{a, b *}

^aBeijing National Laboratory for Molecular Sciences, Key Laboratory of Molecular Nanostructure and Nanotechnology, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China;

^bUniversity of Chinese Academy of Sciences, Beijing 100049, China.

^cBeijing ChaoYang Hospital, Beijing 100020, China.

*Corresponding Author E-mail: zhenmm@iccas.ac.cn

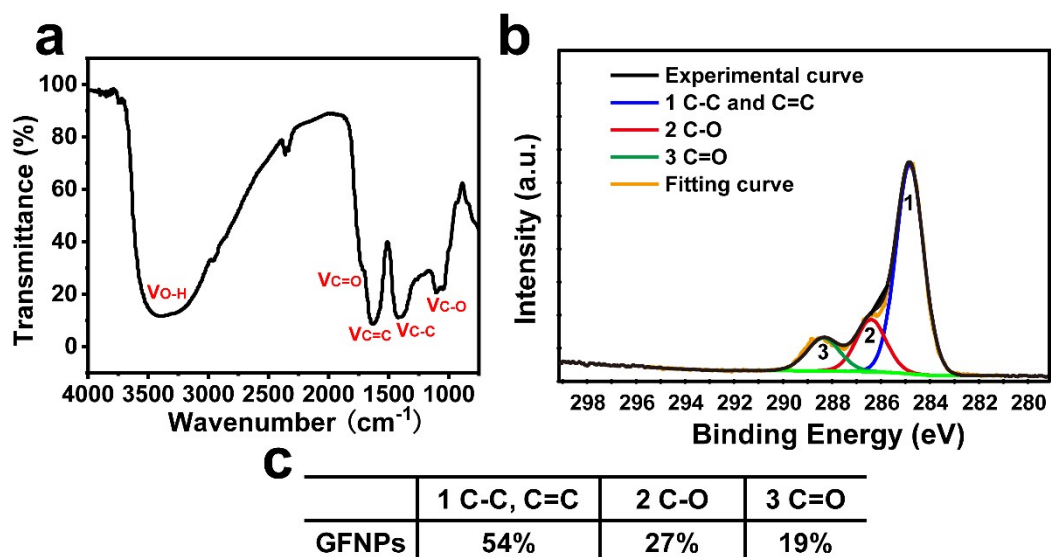


Fig. S1 Characterization of GFNPs. (a) FT-IR data of GFNPs. (b-c) XPS spectrum and relative atomic percent contents of different C1s of GFNPs.

Table S1. The hydrodynamic parameters including average size, polydispersity index (PDI) and Zeta potential of GFNPs.

Hydrodynamic parameters	GFNPs
Size (d.nm)	130.70±1.70
PDI	0.20±0.07
Zeta potential (mV)	-41.70±0.36

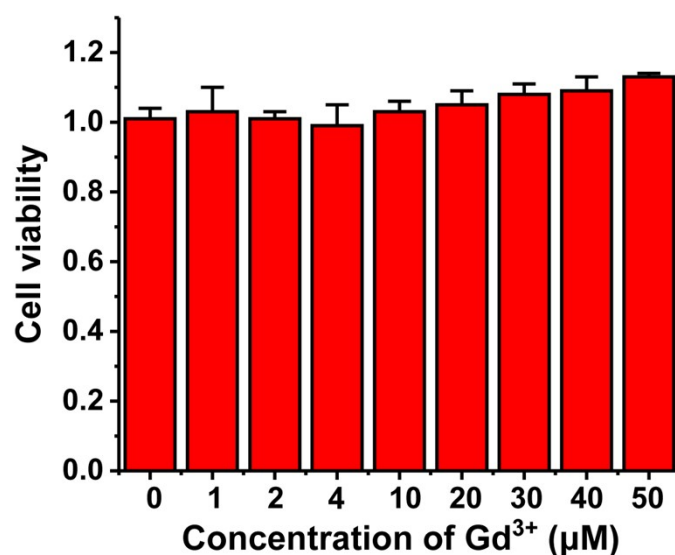


Fig. S2 The cell viability of FDC-P1 cells after treated with different concentrations of GFNPs (0, 1, 2, 4, 10, 20, 30, 40, 50 µM). (n=5).

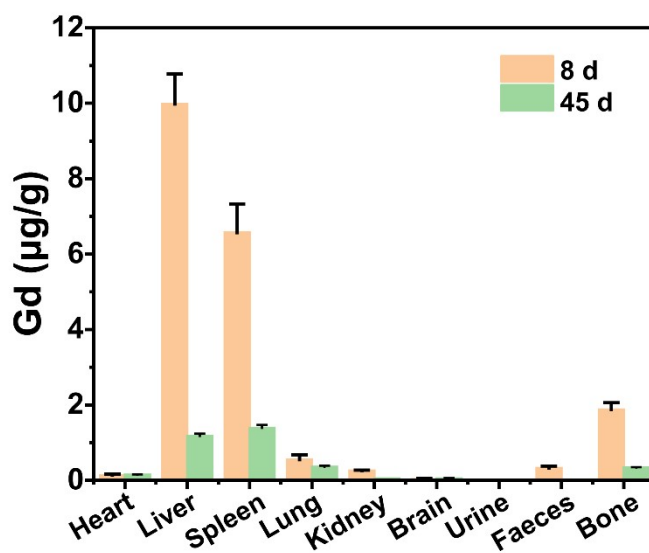


Fig. S3 The biodistribution of GFNPs *in vivo*.

Table S2. Information of the main antibodies.

Main Antibodies	Supplier	Identifier
Mouse Hematopoietic Lineage Antibody	eBioscience	Catalog # 88-7772-72
Anti-Mouse CD117 (c-Kit)	eBioscience	Catalog # 25-1171-82
IgM Monoclonal Antibody	eBioscience	Catalog # 25-5790-82
CD45R (B220) Monoclonal Antibody	eBioscience	Catalog # 11-0452-81
CD43 Monoclonal Antibody	eBioscience	Catalog # 12-0431-81
CD19 Monoclonal Antibody	eBioscience	Catalog # 45-0193-80
FITC anti-mouse CD45 Antibody	BioLegend	Catalog # 103108
Anti-mouse Ly-6G/Ly-6C Antibody	BioLegend	Catalog # 108428