

Impact of Tuning the Surface Charge Distribution on Colloidal Iron Oxide Nanoparticle Toxicity Investigated in *Caenorhabditis elegans*

Loredana Amigoni †, Lucia Salvioni †, Barbara Sciandrone, Marco Giustra, Chiara Pacini, Paolo Tortora, Davide Prosperi, Miriam Colombo * and Maria Elena Regonesi *

Department of Biotechnologies and Biosciences, University of Milano-Bicocca, 20126 Milan, Italy;
loredana.amigoni1@unimib.it (L.A.); lucia.salvioni@unimib.it (L.S.); barbara.sciandrone@unimib.it (B.S.);
m.giustra2@campus.unimib.it (M.G.); chiara.pacini1991@gmail.com (C.P.); paolo.tortora@unimib.it (P.T.);
davide.prosperi@unimib.it (D.P.)

* Correspondence: miriam.colombo@unimib.it (M.C.); mariaelena.regonesi@unimib.it (M.E.R.);
Tel.: +39-02-6448-3388 (M.C.); +39-02-6448-3437 (M.E.R.)

† These authors contributed equally to this work.

Table S1. NPs stability - DLS analyses of MYTS, MYTS-EDBE, MYTS-PEG after 25 days. The hydrodynamic diameter was obtained by number size distribution. Data represent mean \pm SD of three independent measurements.

	Hydrodynamic diameter (nm)	Polydispersity Index (PDI)
MYTS	32.4 \pm 7.2	0.204 \pm 0.013
MYTS-PEG	29.5 \pm 0.5	0.259 \pm 0.022
MYTS-EDBE	40.6 \pm 7.3	0.228 \pm 0.006

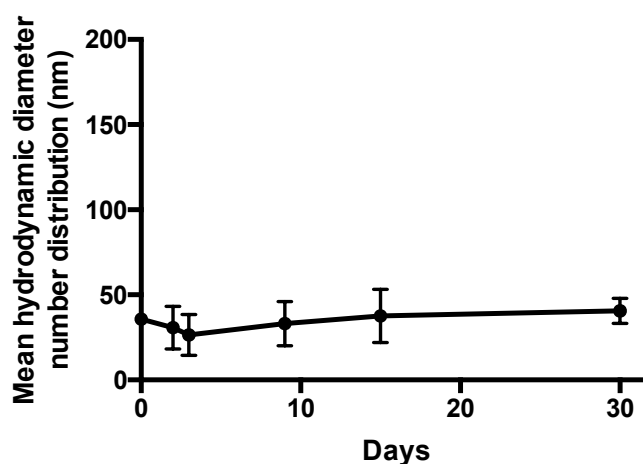


Figure S1. Stability over time of a representative batch of PMDA-coated iron oxide NPs (MYTS-EDBE). The hydrodynamic diameter was obtained by number size distribution. Data represent mean \pm SD of three independent measurements.