

Tuning the Surface Coating of IONs Toward Efficient Sonochemical Tethering and Sustained Liberation of Topoisomerase II Poisons [Corrigendum]

Michalkova H, Strmiska V, Kudr J, et al. *Int J Nanomedicine*. 2019;14:7609–7624 on page 7621 is incorrect. The correct figures are shown below.

The authors have advised due to an error at the time of figure assembly, **Figure 1D** on page 7614 and **Figure 6A**

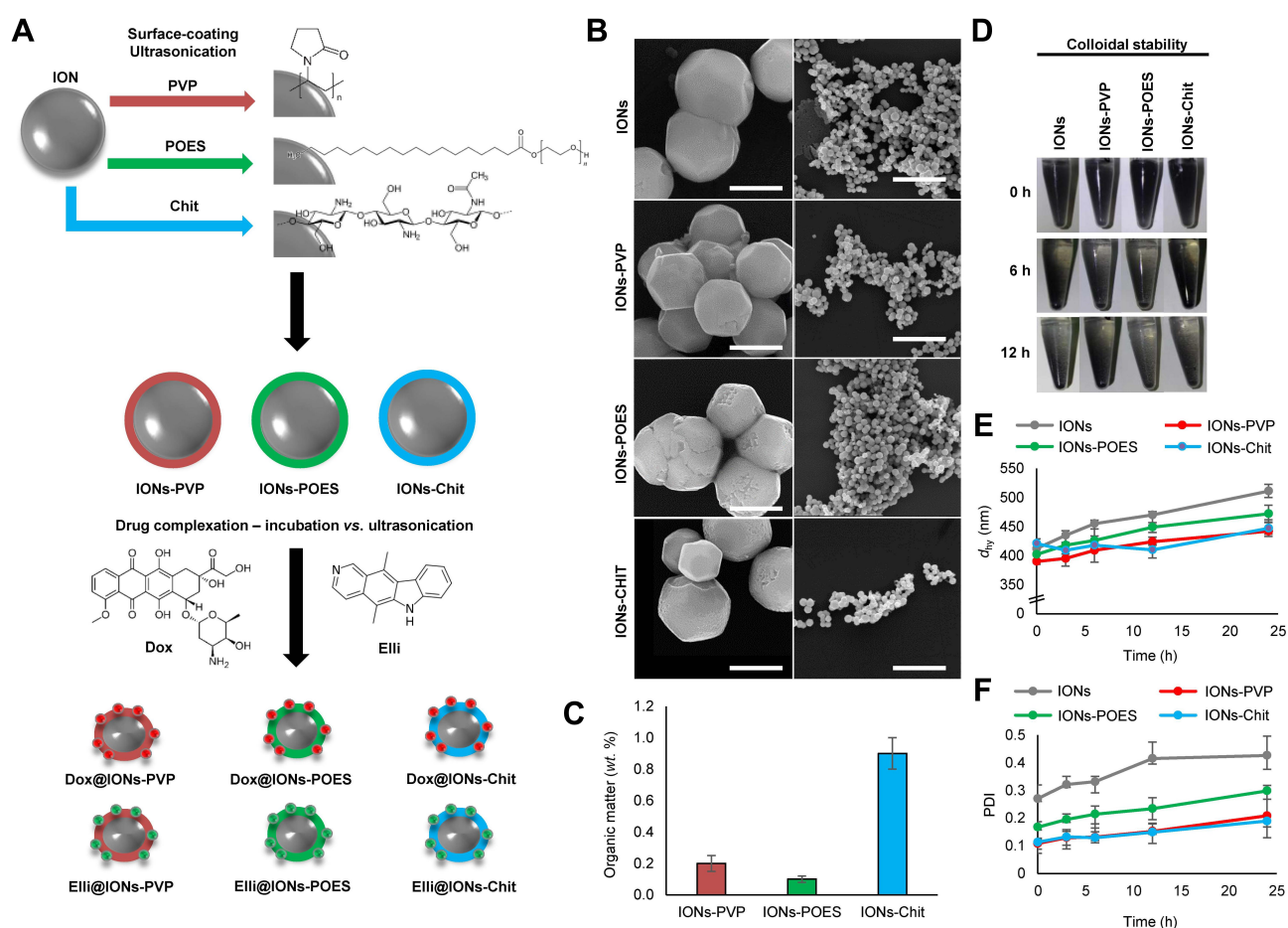


Figure 1 Surface coating of IONs with biocompatible surfactant (POES) or polymers (PVP and Chit). **(A)** Schematic representation of surface coating of bare IONs with PVP, POES and Chit with a consequent tethering of cytotoxic substances Dox and Elli using incubation or ultrasonication, respectively. **(B)** SEM micrographs of morphology of bare IONs and their morphology after surface coatings. The scale bars, 400 nm (left) or 5 μm (right). **(C)** Content of organic matter in surface-coated formulations analyzed using CHNS/O analyzer. The values are expressed as the mean of three independent replicates (n=3). Vertical bars indicate standard error. **(D)** Photodocumentation of a colloidal stability of bare and surface-coated IONs. Time-evolution of **(E)** d_{hy} and **(F)** PDI, both analyzed in Ringer's solution. The values are expressed as the mean of six independent replicates (n=6). The vertical bars + and – errors.

Abbreviations: IONs, iron oxide nanoparticles; POES, polyoxyethylene stearate; PVP, polyvinylpyrrolidone; Chit, chitosan; SEM, scanning electron microscopy; d_{hy} , hydrodynamic diameter; PDI, polydispersity index.

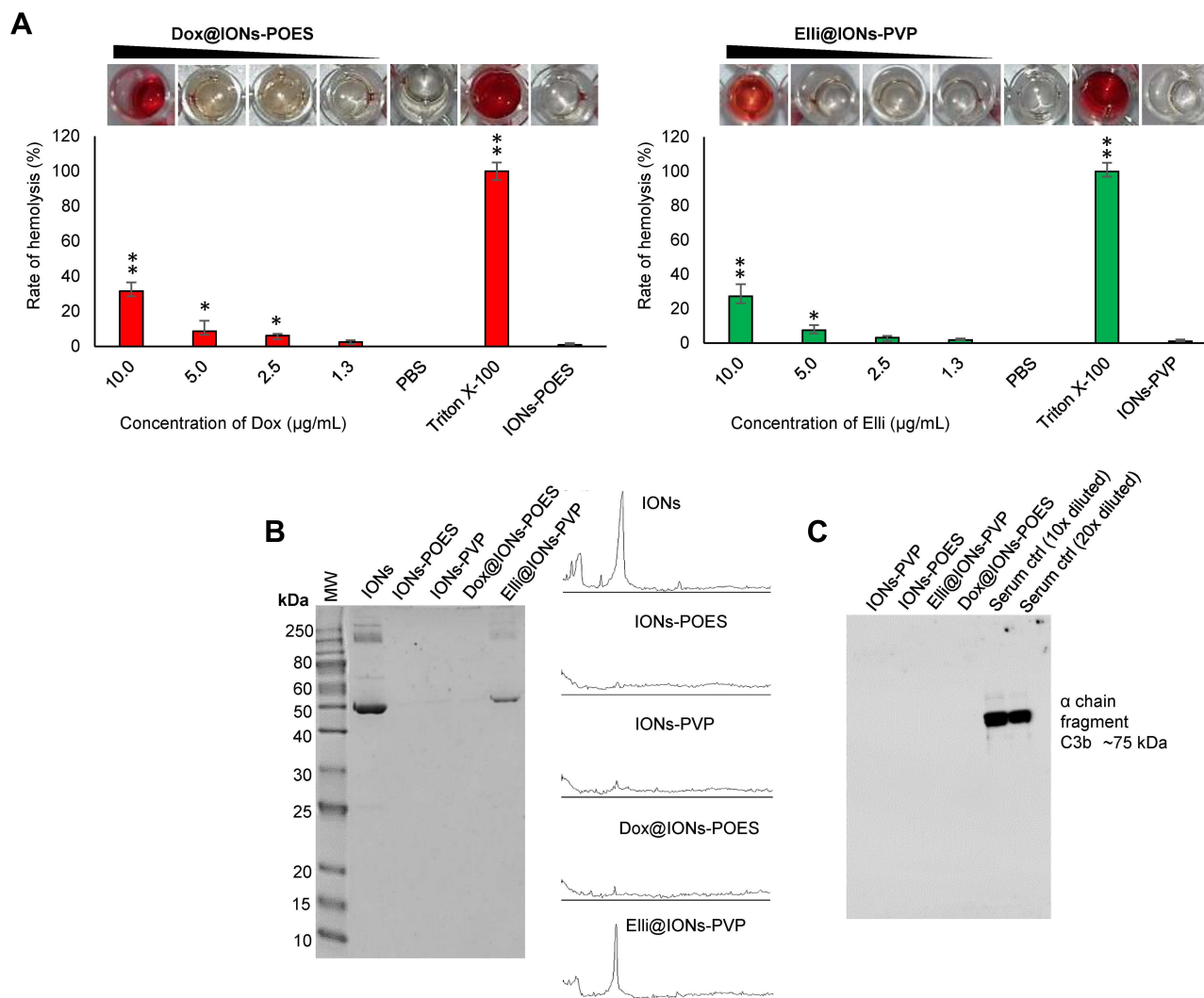


Figure 6 Examination of in vitro biocompatibility of Dox@IONs-POES and Elli@IONs-PVP. **(A)** Hemolysis of Dox@IONs-POES and Elli@IONs-PVP assayed on human RBCs. PBS (pH 7.4) and 0.1% Triton X-100 were utilized as negative and positive controls, respectively. Amount of tested IONs-POES and IONs-PVP without tethered Dox and Elli is adequate to the highest amount of IONs in Dox@IONs-POES and Elli@IONs-PVP treatments. Upper images depict representative photographs of tested samples. The values are expressed as the mean of three independent replicates (n=3). Vertical bars indicate + and -errors. *P<0.05, **P<0.01 related to the IONs-POES and IONs-PVP without tethered topo II poisons. **(B)** Protein corona patterns obtained after 30 mins incubation of annotated formulations with human plasma followed by extensive washing, elution, and loading onto 12% SDS-PAGE. As a control, human plasma (1,000x diluted) was loaded to the first lane. Figures on the right side show protein coronas quantified by densitometric analysis. **(C)** Immunoblot of C3b binding from human serum from male AB clotted whole blood. **Abbreviations:** Dox, doxorubicin; Elli, ellipticine; IONs, iron oxide nanoparticles; RBCs, red blood cells.

The authors apologize for these errors and advise they do not affect the results of the paper.