

# **Characterization and Preliminary *In Vitro* Antioxidant Activity of a New Multidrug Formulation Based on the Co-Encapsulation of Rutin and the $\alpha$ -Acylamino- $\beta$ -Lactone NAAA Inhibitor URB894 within PLGA Nanoparticles**

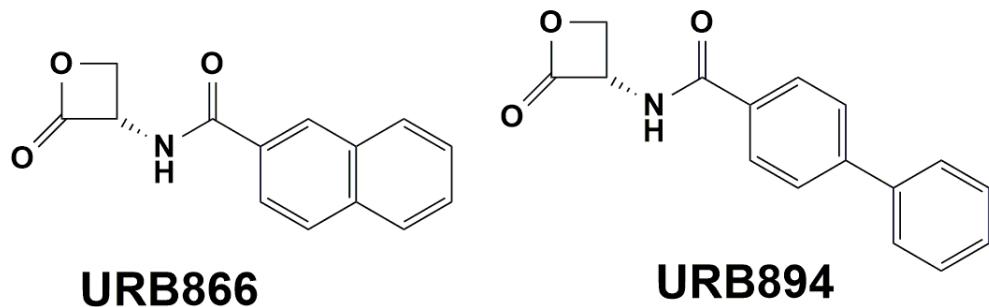
Agnese Gagliardi<sup>a,§</sup>, Silvia Voci<sup>a,§</sup>, Nicola Ambrosio<sup>a</sup>, Massimo Fresta<sup>a</sup>, Andrea Duranti<sup>b,\*</sup>

Donato Cosco<sup>a,\*</sup>

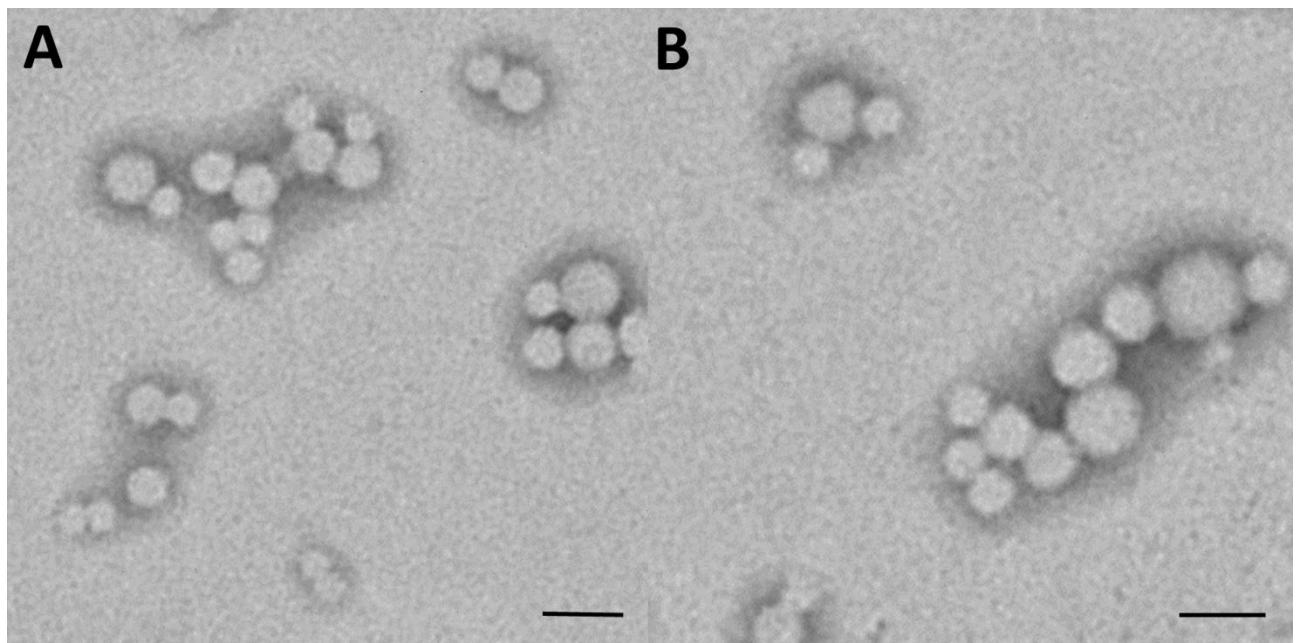
<sup>a</sup>Department of Health Sciences, University “Magna Græcia” of Catanzaro, Campus Universitario “S Venuta”, 88100, Catanzaro, Italy;

<sup>b</sup>Department of Biomolecular Sciences, University of Urbino Carlo Bo, Piazza del Rinascimento 6, 61029, Urbino, Italy

## **Supplementary material**



**Fig. S1.** Chemical structures of URB866 and URB894.



**Fig. S2.** TEM images of (A) empty nanosystems and (B) PLGA-based nanoparticles prepared with 0.4 mg/mL of URB894 and 0.6 mg/mL of rutin. Scale bar = 200 nm.