

# Workplan

WP1

Optimization of the synthesis of MDR reverters and liposomes preparation

WP2

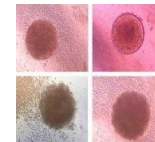
MDR  
*IN VITRO*

Task 1. Characterization of the doxorubicin-resistance phenotype of a human MCF-7 cells, monolayer and multicellular spheroids

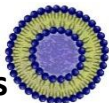
Task 2. Activity towards ABC transporters and characterization of the interacting mechanism

Task 3. Efficacy of new MDRrev on DOX-accumulation and toxicity

Task 4. Peculiar effects of NO-DOX on resistant tumor cells metabolism



Novel molecules

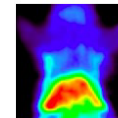


MDR  
*IN VIVO*

WP4

Task 1. Ability of MDRrev to enhance the antitumor activity of chemotherapeutic agents on xenograft mouse models

Task 2. Characterization of selected MDR inhibitors as radiotracers



WP3

SAFETY  
PHARMACOLOGY  
& ADMET

Task 1. Evaluation of acute and long-term CDV toxicities

Task 2. Drug-drug interaction

Task 3. Drug transport across the small intestine epithelium and role of metabolism during drug absorption

