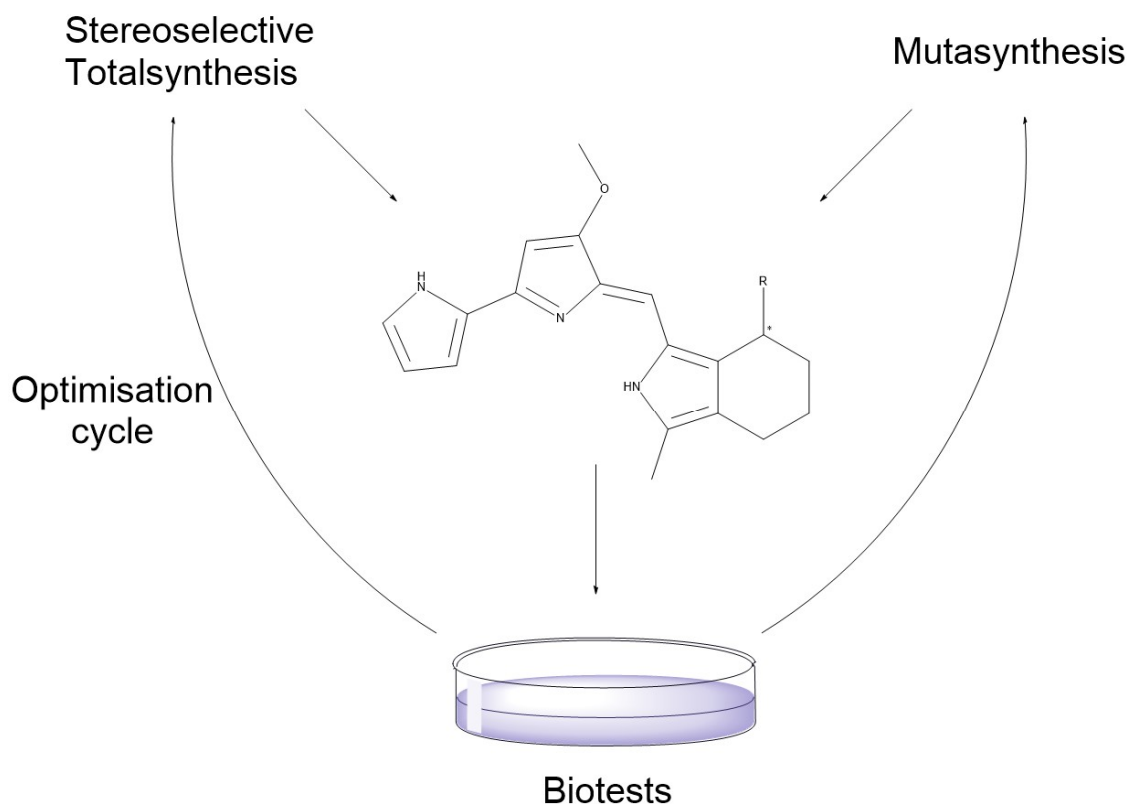


Stereoselective synthesis of cyclic prodigiosin derivatives for use in the therapy of multidrug-resistant bacterial diseases



Bacterial infections were considered a solved problem after the discovery and widespread use of antibiotics in the population. However, due to excessive and preventive use, more and more resistant multi-resistant strains are formed. Cycloprodigiosin not only shows enhanced antibiotic activity compared to linear prodigiosins but also maintains it against a variety of multidrug-resistant bacterial strains. With this in mind, a simpler stereoselective synthesis will be developed and used to synthesize derivatives. These will be tested and optimized against multi-resistant strains. In addition, analyses on the mutasynthetic production of cycloprodigiosins will be performed in collaboration with cooperation partners.