

Structural and Functional Biochemistry

<https://www.biochemistry-scienze.unito.it>



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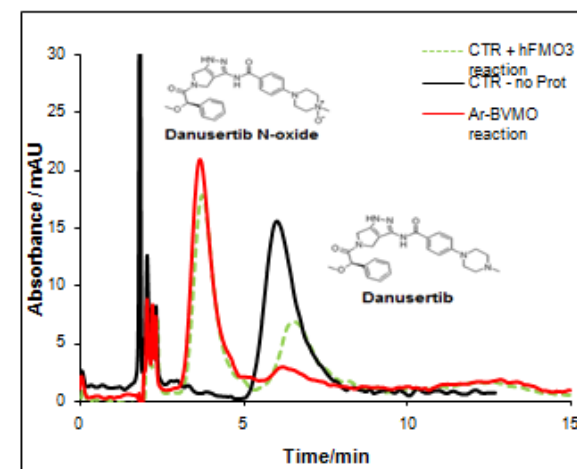
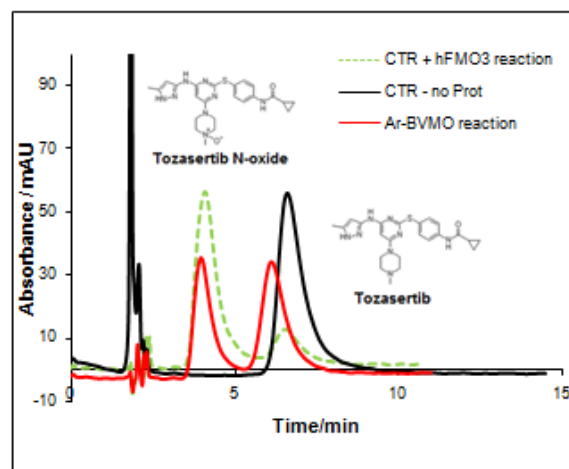
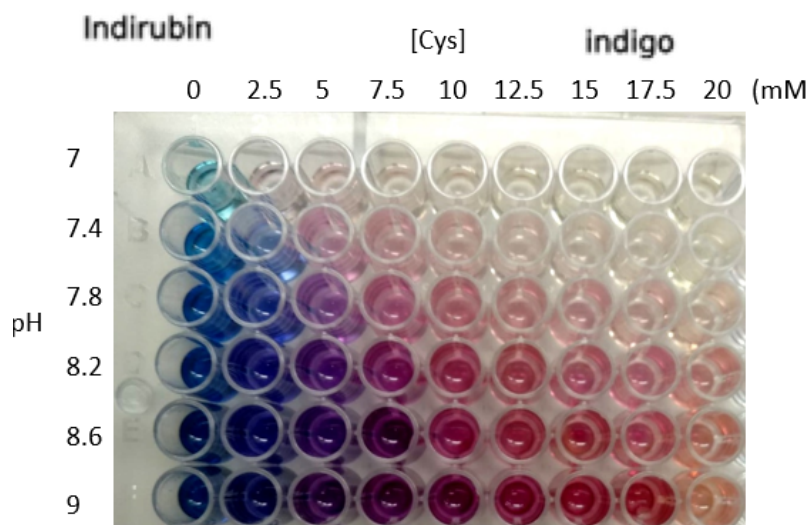
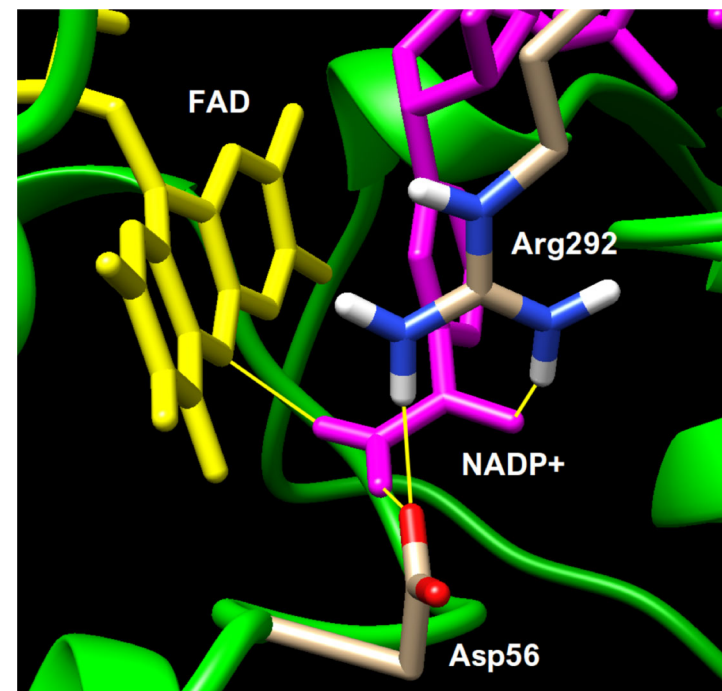
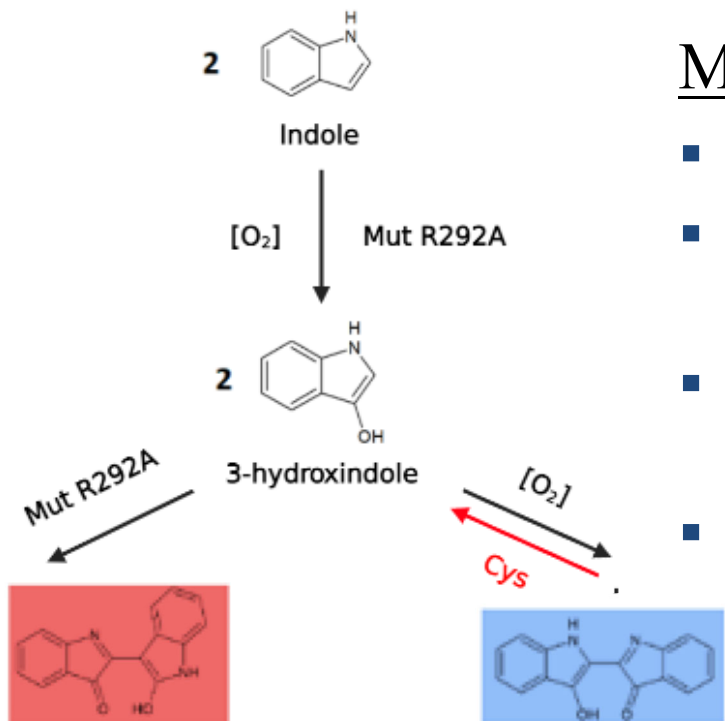
Prof. Francesca Valetti

Prof. Giovanna Di Nardo

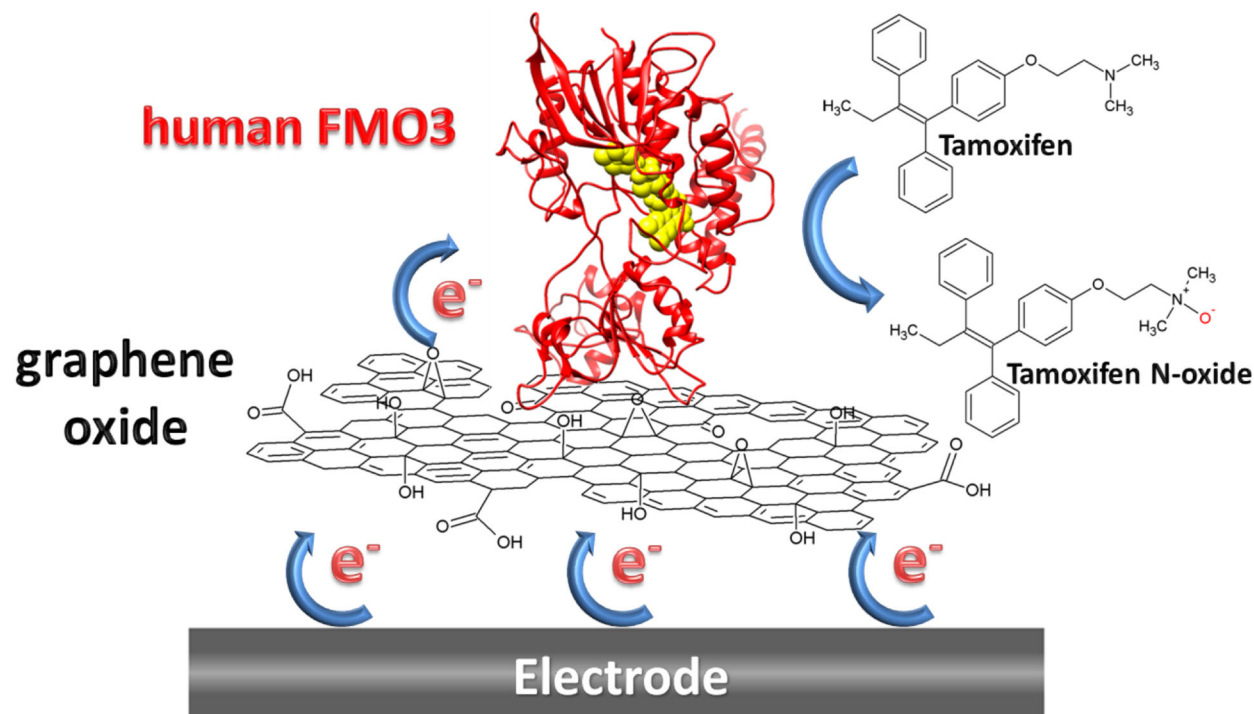
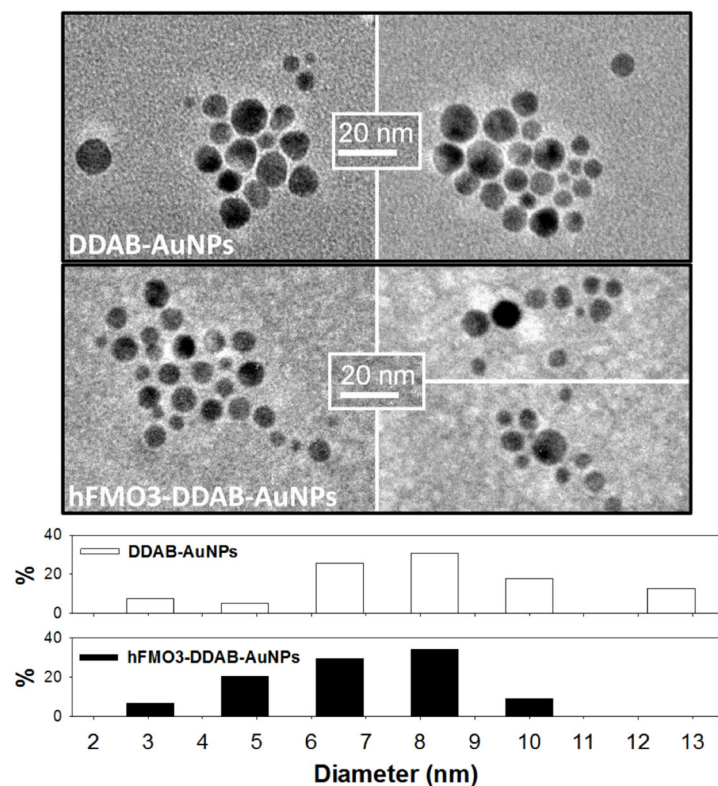
1. BVMO-based microbial whole-cell catalysts for chemical synthesis

Main techniques:

- Fermentation
- E. coli cell growth optimization
- Spectroscopy (visible and fluorescence)
- LC-MS profiling



2. Protein immobilisation using different sized AuNp and graphene



Main techniques:

- Heterologous protein expression & purification
- Uv-vis spectroscopy
- HPLC
- TEM
- Immobilisation techniques
- Preparation of carbon surfaces
- Activation of AuNps and/or graphene oxide
- Bioelectrochemistry

Castrignanò, Gilardi & Sadeghi., 2015 *Anal Chem* 87 (5): 2974–80

Castrignanò, Gilardi & Sadeghi., 2017 *Electrochem Acta* 228: 611–18