

UNIVERSITA' DEGLI STUDI DI MILANO – BICOCCA
Scuola di Scienze



Argomenti di tesi

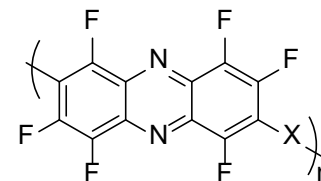
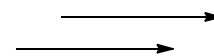
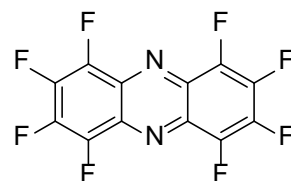
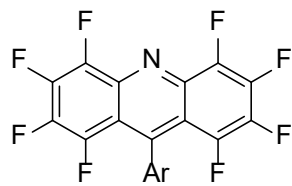
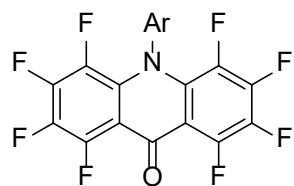
Prof. Antonio Papagni

Collaboratori:

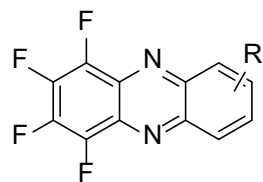
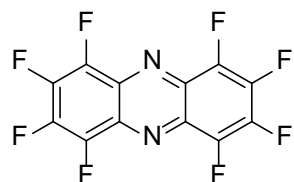
Dr. Luca Vaghi, Ph.D. ; Dr Mauro Monti, Dr Davide De Luca

Organic Electronics

Synthesis of Type-n Organic Semiconductors



X: S, S=O, N=N



Donor Acceptor Polymers Phenazine-based acceptors

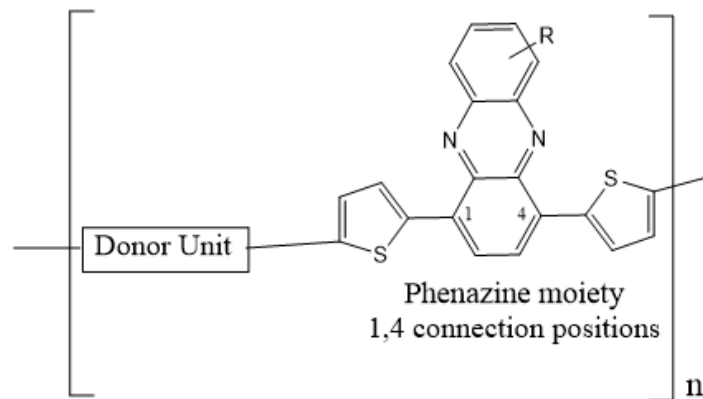
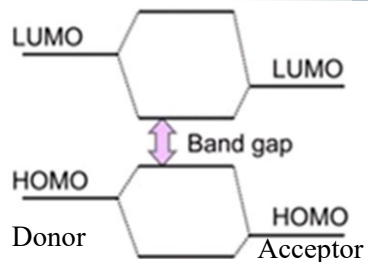
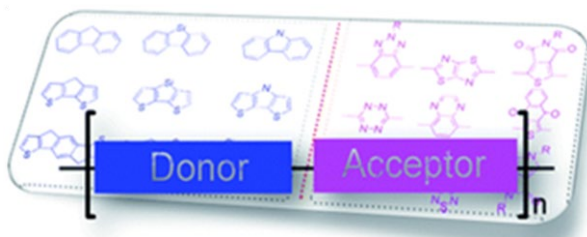
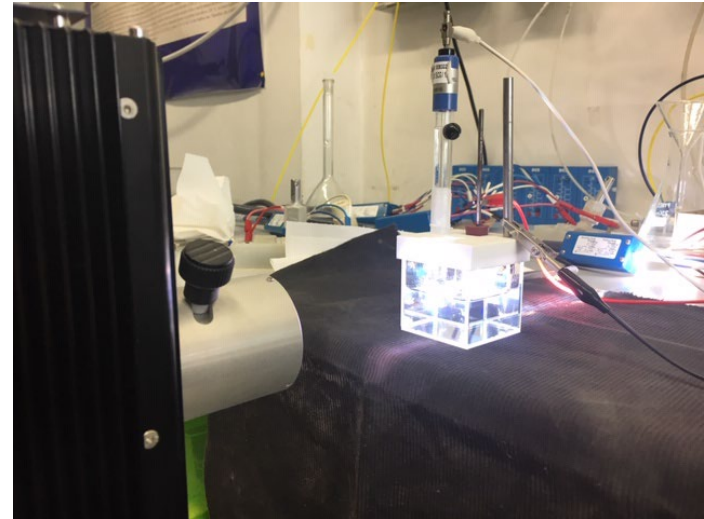
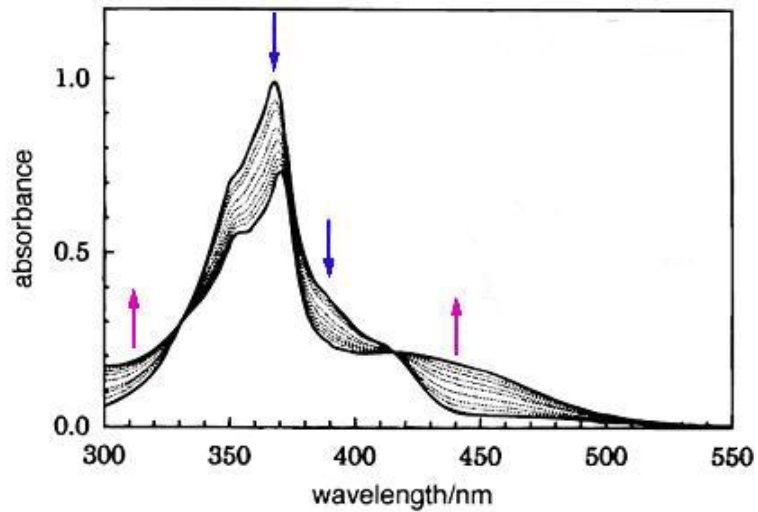
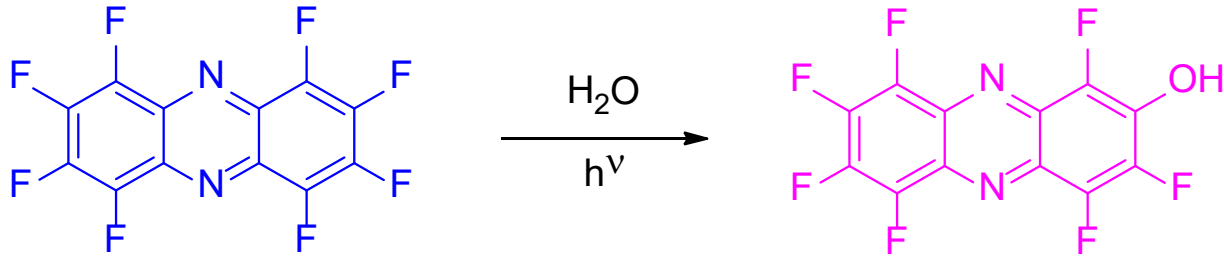
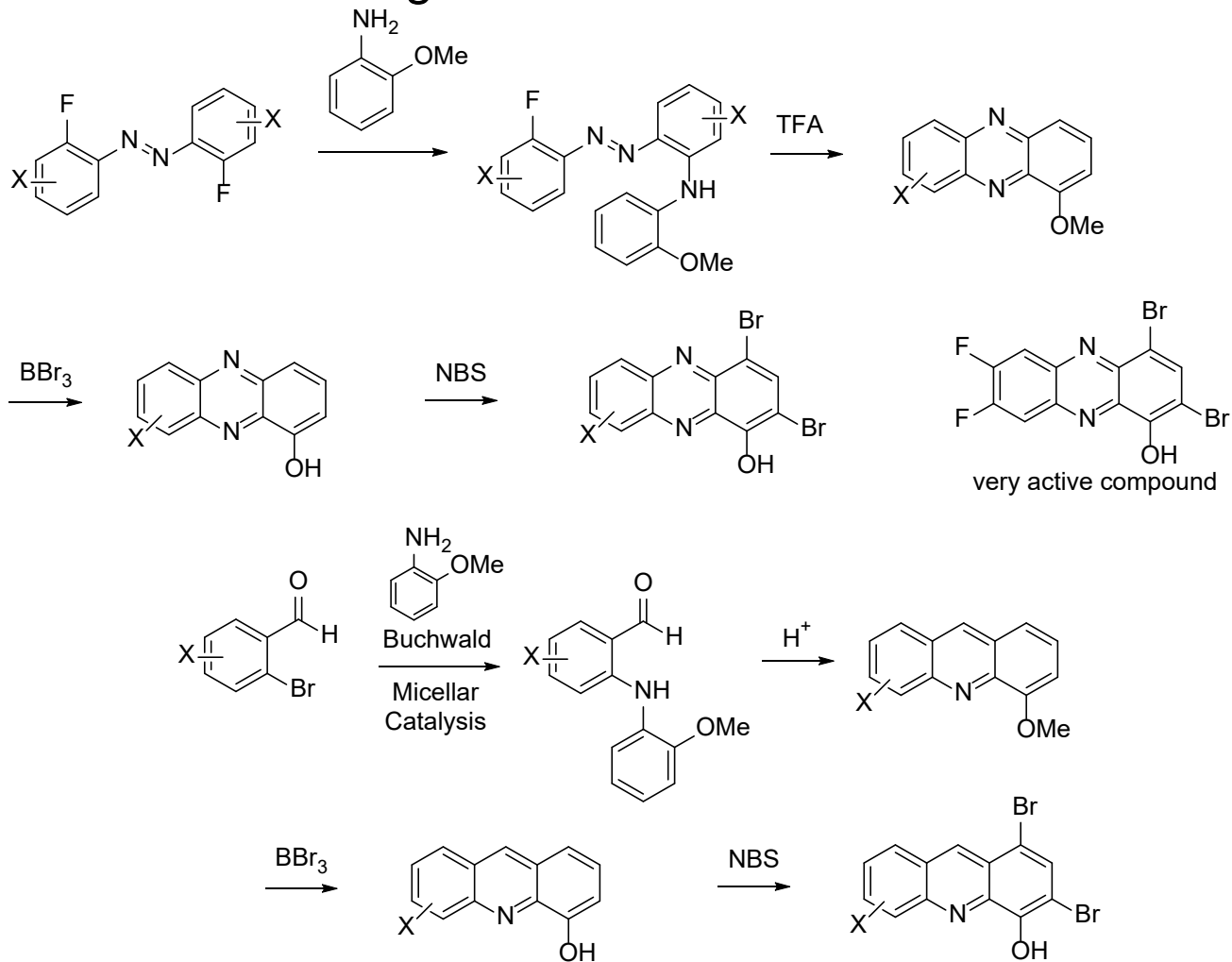


Photo-oxidation of water



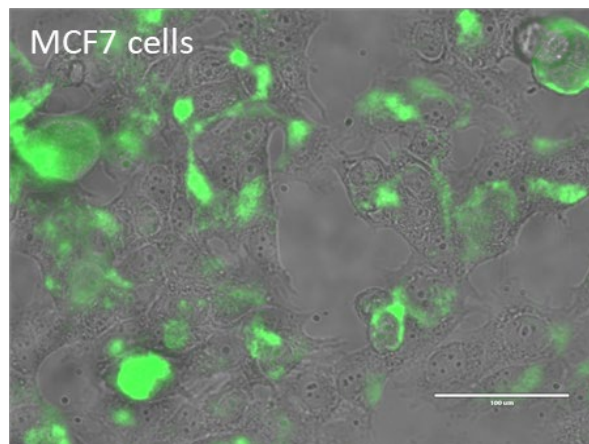
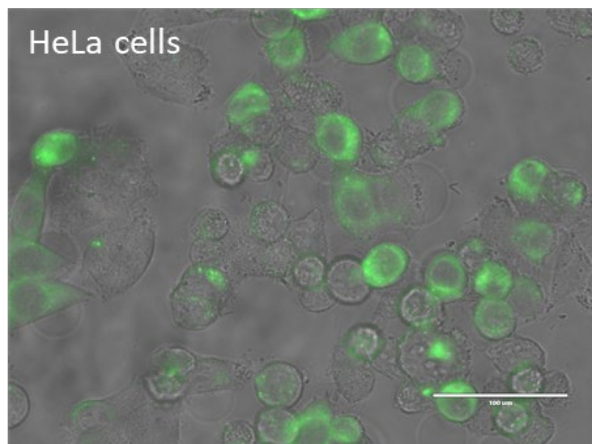
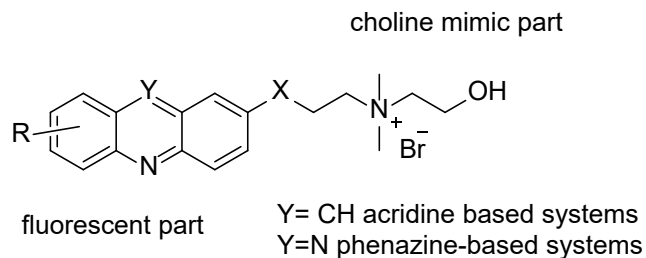
In collaboration with professor Riccardo Ruffo

Synthesis of 1-hydroxyphenazine and 4-hydroxyacridines against resistant bacteria



In collaboration with professor Luca Beverina and Robert W. Huigens III , University of Florida

Synthesis of choline-based acridines and phenazines: fluorescent tools for cancer cells

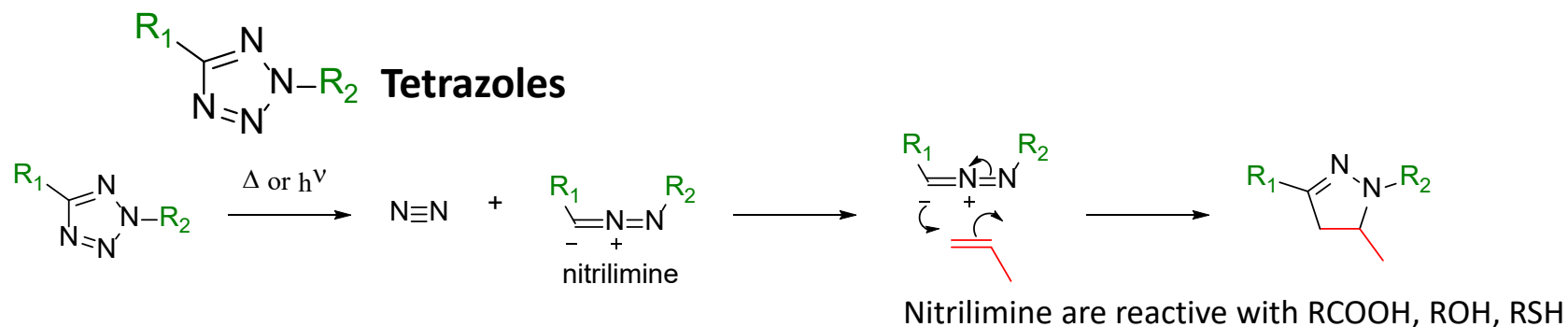


Imagines of staining
tumor cells, from
preliminary results
Fluorescent Acridine-
based system

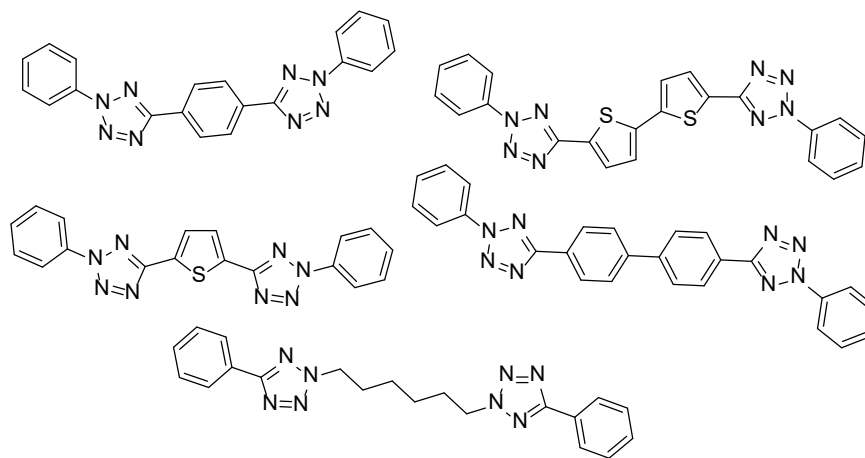
In collaboartion with Anna Caprifico (University of East London), Giampiero Calabrese and Peter Spearman (University of Kingston UK)

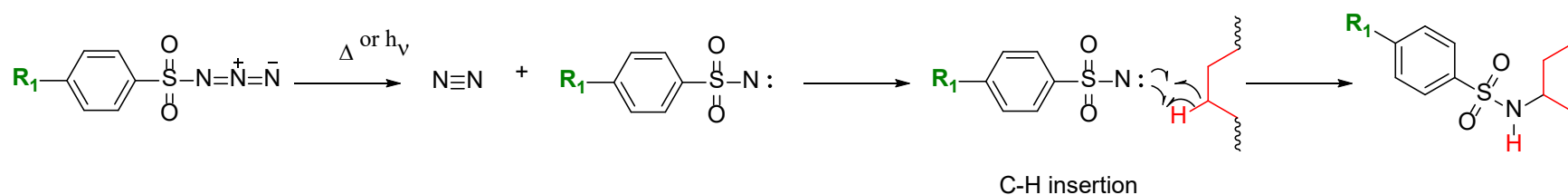
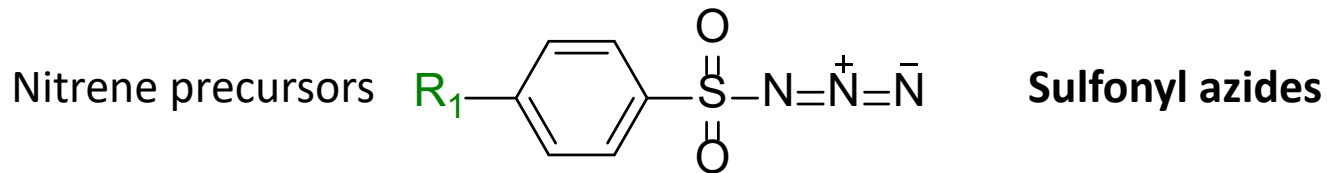
Crosslinking of elastomers or proteins

Reactive species activable by light or heating: generation of nitrilimine, carbenes and nitrenes

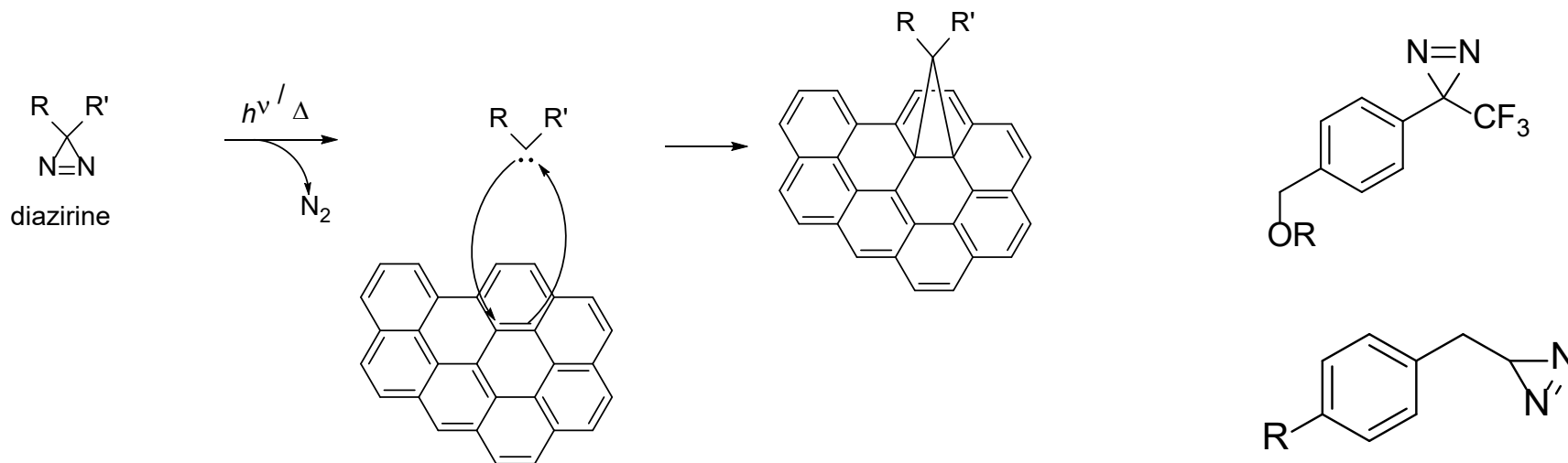


Some bis-tetrazole prepared for crosslinking processes on gelatins





Nitrene precursors: Diazirines



Bis-diazirines and bis-sulfonyl azides can be used in crosslinking processes