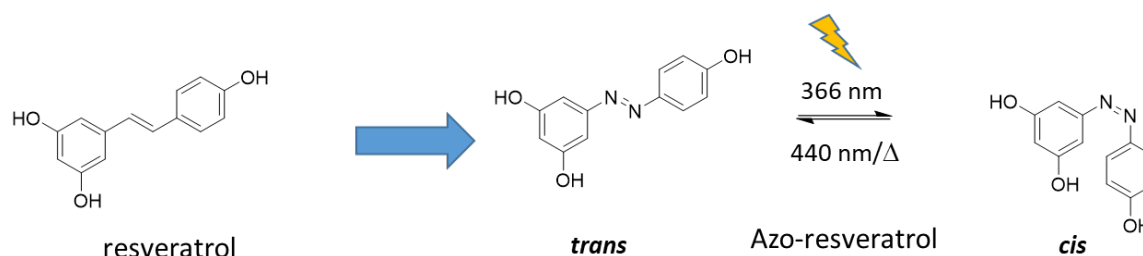


Proposition de stage

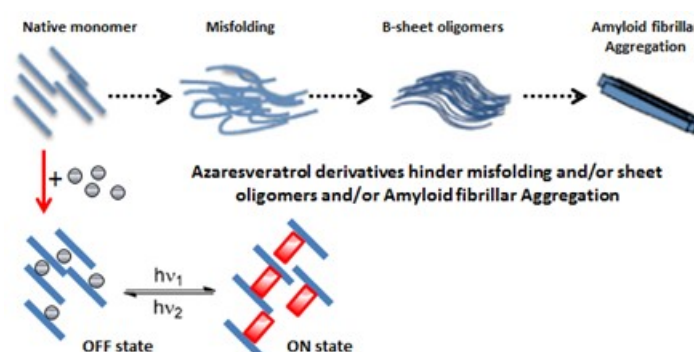
Coordonnées	Tuteur : Dr Laurence Agouridas / Dr Jérôme Berthet Équipe/laboratoire : "Onco and NeuroChemistry" JPARC INSERM UMR-S1172 - Faculté de Pharmacie - Université de Lille Adresse : 3, rue du Professeur Laguesse - LILLE E-mail : laurence.agouridas@univ-lille.fr Tél. : 03 20 96 43 68
Titre du stage	Conception, design and synthesis of photoactivatable resveratrol derivatives for the treatment of neurodegenerative diseases

Résumé

This project aims to conceive new resveratrol derivatives (Azobenzene type) that can be photoswitched between two reversible OFF/ON states. Designed compounds in their OFF state would interact with oligomers/fibrils/aggregates and upon photoswitching to more structurally constrain ON state therefore being able to break by enhancing distance between aggregates.



They will constitute original β -breakers for applications in neurodegenerative diseases (Alzheimer and Parkinson diseases).



The present traineeship will first include organic synthesis (Dr Agouridas, Onco and NeuroChemistry Group, INSERM UMRs-1172). NMR studies will be conducted to evaluate the behaviour of the compounds under photoactivation with and without amyloid proteins (Pr Delbaere, Dr Berthet, Photophysique, Réactivité et Fonctionnalité, UMR CNRS 8516, LASIR).

