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## **POSTDOCTORAL POSITION IN ORGANIC CHEMISTRY FOR PROTEIN-PROTEIN INTERACTIONS STUDIES**

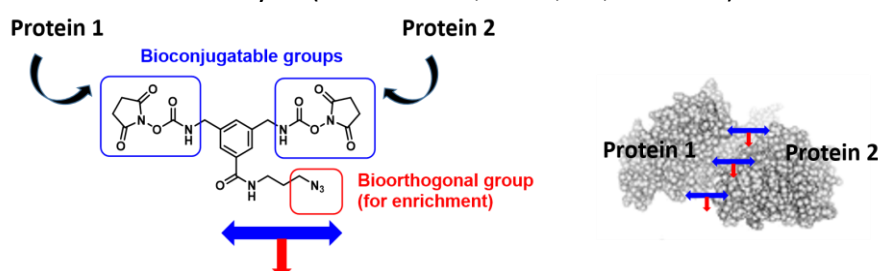
**TITLE:** Synthesis of a next generation of crosslinkers to gain insight into infectious diseases

**KEY WORDS:** Organic chemistry, crosslinker, heteromultifunctional reagent

**FUNDING:** ANR (French national funding agency for research)

**EXPECTED STARTING DATE:** April 2022

**PROJECT:** Our laboratory in collaboration with the Pasteur Institute in Paris has reported a novel trifunctional chemical platform (bioorthogonal crosslinker) for improved protein/protein interaction analysis (*Anal. Chem.*, **2015**, *87*, 1853-60).



Whilst this strategy particularly effective for *in vitro* applications, the complexity of the crosslinked peptide mixture to be analyzed (LC-MS-MS) is dramatically increased by the presence of two distinct biological organisms (virus and host cell) raising the technological challenge to a new limit. This project carried out in collaboration with biologist partners (Pasteur Institute, Paris), will aim at synthesizing a next generation of (photo)crosslinkers to facilitate the identification of crosslinked peptides for *in vivo* applications.

**CANDIDATE PROFILE:** We are looking for highly motivated candidates having a Ph-D in Organic Synthesis and a strong interest in working at the interface between chemistry and biology.

**APPLICATION PROCEDURE:** A detailed curriculum vitae, a short research summary, and two contacts able to provide a recommendation letter have to be sent to:

[cyrille.sabot@univ-rouen.fr](mailto:cyrille.sabot@univ-rouen.fr) & [pierre-yves.renard@univ-rouen.fr](mailto:pierre-yves.renard@univ-rouen.fr).