

# PROJECT PROPOSITION - Lab1- 2023

(M1, second semester)

**Supervisor(s):** Emmanuel Margeat

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**Hosting lab:** CBS

**Period of proposed project** (put **x** instead of ☐ ) :

☒ Only 1st slot

☐ Only 2nd slot

☐ One slot, but I have no preference on which groups)

☐ Both slots (with different

1st slot: 12 days to be selected later between 1/16/2023 to 2/24/2023- see next page for info

2nd slot: 12 days to be selected later between 3/6/2023 to 5/12/2023- see next page for info

## CONSTRUCTION OF AN OPTICAL DUAL VIEW SYSTEM

**Subject** (5 lines max for the description)

The objectif of the project is to construct a “dual view” optical system on a home made optical microscope, in order to detect simultaneously single molecules in two colors in widefield / TIRF configuration.

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**Technical tools to be used:**

Review of the litterature. Selections of several configurations to be tested.

Construction of several optical systems.

Preparation of test microscopy slides, data acquisition and analysis

**Objectives:**

Test several optical configurations. Quantification of signal, background, optical abberations. Choice and validation of the best configuration.

Periode 1		Lundi	Mardi	Mercredi	Jeudi	Vendredi
	16 au 20/01					
	23 au 27/01					
	30/01 au 03/02					
	06 au 10/02					
	13 au 17/02					
	20 au 24/02					
Periode 2		Lundi	Mardi	Mercredi	Jeudi	Vendredi
	06 au 10/03					
	13 au 17/03					
	20 au 24/03					
	27 au 31/ 03					
	03 au 07/04					
	10 au 14/04					
	17 au 21/04					
	24 au 28/04					
	02 au 05/05					
	08 au 12/05					