

Co-localization Study with DOFLA Library

Recommended Experimental Design

The DOFLA library has been reformatted into plate groups according to fluorophores. As different excitation and emission filters are required for different plate sets, care must be taken to ensure that appropriate additional stains and fluorophores are matched per plate. The table below describes suggested combinations of nuclear stains and additional fluorophores that can be combined with plate sets from the DOFLA library. The configuration suggested is for the HCS system located in G-INCPM (Molecular devices imagexpress confocal with 5 color solid state light source). Some plate sets are not compatible with the light source. To use these plate sets a different instrument is recommended.

Set	Number of plates	Plate names	Comment	Fluorophore 2			Nuclear Stain
				Ex (nm)	Em (nm)		
1	3	DOFLA 01-03	incompatible with HCS instrument	300-320	350-600	GFP/Venus	DRAQ5
2	9	DOFLA 04-12		350-400	450-700	GFP/Venus	DRAQ5
3	14	DOFLA 12-25		370-490	490-700	mcherry	DAPI/Hoechst
4	4	DOFLA 26-29		500	520-700	mcherry	DAPI/Hoechst
5	9	DOFLA 30-38		510-530	530-750	mcherry	DAPI/Hoechst
6	2	DOFLA 39-40		540-550	550-680	GFP	DAPI/Hoechst
7	3	BDN I-III	Requires Echo plate preparation	530	620-800	GFP	DAPI/Hoechst
8	14	Others*	incompatible with HCS instrument	605-805	650-850	GFP	DAPI/Hoechst
9	9	Others*	incompatible with HCS instrument	420-430	440-700	GFP/Venus	DRAQ5

*Consult with Galit Cohen/Haim Barr regarding details of plate sets