How to merge DIC and Fluo channels in Fiji ImageJ

1. Open up the original DV file directly in FijilmageJ

🗊 (Fiji Is Just) ImageJ	
File Edit Image Process A	nalyze Plugins Window Help
New 🕨	A & M Dev Stk LUT & & M >>
Open Ctrl+O	ght click to switch)
Open Next Ctrl+Shift+O	
Open Samples	

🗊 (Fiji Is Just) ImageJ 📃 🔍 🖉
File Edit Image Process Analyze Plugins Window Help
Oval, elliptical or brush selections (right click to switch)



2. You will get this window pop up

Bio-Formats Import Options		— ×
Stack viewing	Metadata viewing	Information ————
View stack with: Hyperstack	🗖 Display metadata	View stack with - The type of image
Stack order: XYCZT 💌	Display OME-XML metadata	viewer to use when displaying the dataset.
	🗖 Display ROIs	Possible choices are:
Dataset organization	Memory management ———	 Metadata only - Display no pixels, only metadata.
Open files individually	Specify range for each series	 Standard ImageJ - This option = is deprecated (i.e. intended for
Swap dimensions	Crop on import	use by old macros only). Please
Open all series Concatenate series when compatible	Split into separate windows —	 Hyperstack instead. Hyperstack - Display the pixels in ImageJ's built-in 5D viewer. Data Browser - Display the
☐ Stitch tiles	Split channels	pixels in the multidimensional
Color options	Split focal planes	Browser has some additional
Color mode: Default 💌	Split timepoints	features on top of the normal ImageJ hyperstack. • Image5D - Display the pixels in

Your multi channel DV image will look like this in FIjiImageJ



3. Then split channels





After splitting, you get individual images of each channel like this



4. Now you can merge these single color images

🔟 (Fiji Is Just)	ImageJ					x						
File Edit	Image Process	Analyze Plugi	ns Window Help									
	Туре	•	Dev Stk LUT	6	\$	\gg						
Angle tool	Adjust	•					J					
	Show Info	Ctrl+I	_ _ X	1								
	Properties	Ctrl+Shift+P										
	Color	۱.	Split Channels	I								
	Stacks	•	Merge Channels									
	Hyperstacks	•	Arrange Channels									
	Crop	Ctrl+Shift+X	Channels Tool		🗊 Mer	rge Char	nnels					×
60x 1	Duplicate	Ctrl+Shift+D	Stack to RGB		[C1 (red	d): [c:2/3 - A.H	levword NT I	Beta Foxo03	R3D.dv	Ţ
2007	Rename		Make Composite		C	2 (areen	י י ו):	*None*	/		_	-
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5. Finally save your merged image to tiff

