

Description of deposited data

This repository contains experimental microscopy data related to the publication: Seefeldt et al. (2021), Direct measurements of erythromycin's effect on protein synthesis kinetics in living bacterial cells, *J. Mol. Biol.*, DOI: 10.1016/j.jmb.2021.166942

The data is organized in multiple zip archives, where the archive name denotes the type of molecule being tracked (e.g. tRNAPhe), overexpressed peptide sequence (e.g. Arrest_MTHSMRFRGI), and drug concentration (e.g. 100 ug/ml).

Each condition contains data from different replicas. Each replica folder contains subfolders with data of different microscopy channels, where each file name refers to an individual position of the sample being imaged. Folder content includes:

Folder or file name	Description
Bf	Bright-field images
Fl	Stacks of frames of fluorescence images (638 nm)
Ph	Phase-contrast images
Sytox	SYTOX blue fluorescence (405 nm)
EMCCDcalibration_offset_5ms_gain104.tif	Camera offset image, obtained as an average of multiple frames captured with a closed internal camera shutter
Data_Processing/SegmentedImages	Segmentation mask used for trajectory building
Data_Processing/SavedParameters.txt	Parameters used for image analysis

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