Information for web pages

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Name of software (Czech): Cell Segmentator
Name of software (English): Cell Segmentator

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Description (Czech): Software umožňuje segmentaci živé neznačené buňky ze z-stacku snímků pořízených optickou transmisní mikroskopií ve světlém poli. Segmentace je založena na počítání rozdílových 12-bit obrázků, kdy body rozdílového obrazu rovné nule slouží pro tvorbu binární segmentační masky.

Description (English): Software enables to segment an unlabelled live cell from a bright-field optical transmission microscopic z-stack. Segmentation is based on calculation of subtractive images, where zero pixels of the subtractive image serves for creation of binary segmentation mask.

Installation: Activation as m-files in Matlab®.

Requirements: Software: Matlab® equipped with Statistics and Image Processing Toolboxes (tested at least at version 5.x.x)

Testing: Launch as an m-file in Matlab®. Select the background by clicking at two points in the input image.

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