

Materials List for:

# Morphology-Based Distinction Between Healthy and Pathological Cells Utilizing Fourier Transforms and Self-Organizing Maps

Fabian L. Kriegel<sup>1,2</sup>, Ralf Köhler<sup>2</sup>, Jannike Bayat-Sarmadi<sup>2</sup>, Simon Bayerl<sup>3</sup>, Anja E. Hauser<sup>2,3</sup>, Raluca Niesner<sup>2</sup>, Andreas Luch<sup>\*1</sup>, Zoltan Cseresnyes<sup>\*4</sup>

<sup>1</sup>Department of Chemical and Product Safety, German Federal Institute for Risk Assessment (BfR)

<sup>2</sup>Deutsches Rheuma-Forschungszentrum (DRFZ) Berlin, a Leibniz Institute

<sup>3</sup>Charité Universitätsmedizin Berlin

<sup>4</sup>Applied Systems Biology, Leibniz Institute for Natural Product Research and Infection Biology Hans Knöll Institute

\*These authors contributed equally

Correspondence to: Zoltan Cseresnyes at [Zoltan.Cseresnyes@hki-jena.de](mailto:Zoltan.Cseresnyes@hki-jena.de)

URL: <https://www.jove.com/video/58543>

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## Materials

Name	Company	Catalog Number	Comments
Imaris 9.1.2, software	Bitplane, Zürich, Switzerland	v.9.1.2	3D image reconstruction and surface generation; this was used by us!
Blender 2.75a, software	<a href="https://www.blender.org/">https://www.blender.org/</a>	v.2.75a	3D and 4D open source animation software; 2.75a is the required version for this Python
Fiji /ImageJ, software	<a href="https://fiji.sc/">https://fiji.sc/</a>	ImageJ v.1.52b	Open source multi-D image analysis toolkit
MATLAB	MathWorks, <a href="http://www.mathworks.com">www.mathworks.com</a>	R2017b	General computational mathematical software
MATLAB Machine Learning kit	MathWorks, <a href="http://www.mathworks.com">www.mathworks.com</a>	R2017b	Can only be used together with MATLAB
Fiji plugins: SHADE	<a href="https://github.com/zcseresn/ShapeAnalysis">https://github.com/zcseresn/ShapeAnalysis</a>	v.1.0	
Fiji plugins: ActiveContour	<a href="http://imagejdocu.tudor.lu/doku.php?id=plugin:segmentation:active_contour:start">http://imagejdocu.tudor.lu/doku.php?id=plugin:segmentation:active_contour:start</a>	absnake2	
Computer	Any	NA	See Imaris instructions for minimum computer requirements