

WimColony

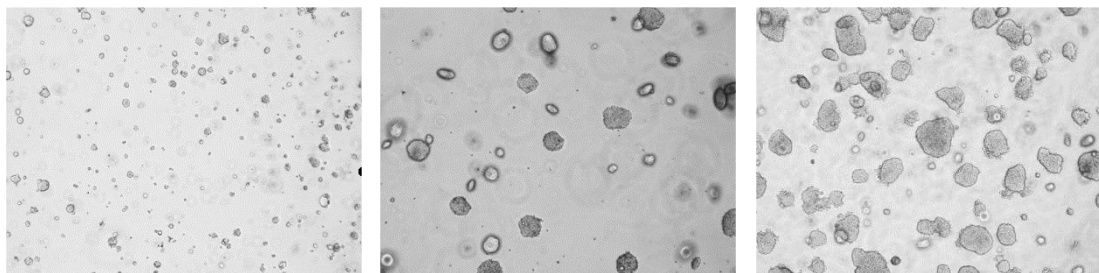
Image Analysis for Colony Forming



The colony forming assay (also known as clonogenic assay or soft agar assay) is a technique used to assess the effects of an agent on the survival and proliferation processes of cells. The assay essentially tests the ability of single cells to grow into a cell colony via cell division and it is extensively used in cancer research to target the effects of drugs and of ionizing radiation therapy on carcinogenic cell proliferation.

WimColony tool is designed to make an objective and reproducible quantification of colony forming in images of cell cultures. The quantification is based on the detection of each individual cells and colonies and the extraction of their identifying characteristics in order to provide reliable data about the colony population and development. This recognition is possible thanks to our fast high-end image processing algorithms, which allows an accurate analysis of the cell cultures in record time.

WimColony uses as input phase contrast, bright field and fluorescence microscopy images of cell colonies in any stage of the colony forming process.



Colony forming assay sample images granted by ProQinase GmbH.
Cell culture in different stages of the colony forming process.

WimColony tool provides the output data defined in objects, instead of colonies or cells. The threshold for the definition of a colony varies from researcher to researcher, so we prefer to leave the differentiation up to your own criteria. The output data provided per image analyzed are the following:

- Number of detected objects.
- Mean object area (px or μm^2).
- Per object area (px or μm^2 , for each detected object).

Try WimColony tool for free at mywim.wimasis.com and experience for yourself the objective colony formation quantification.

WimColony is engineered with the flexibility to adapt to the needs of every researcher (microscopy type, parameters measured, cell phenotype...). If your colony forming assay does not fit the description above, send us a quick note or reach us at:

contact@wimasis.com or +49 (0)89 452 44 66 50