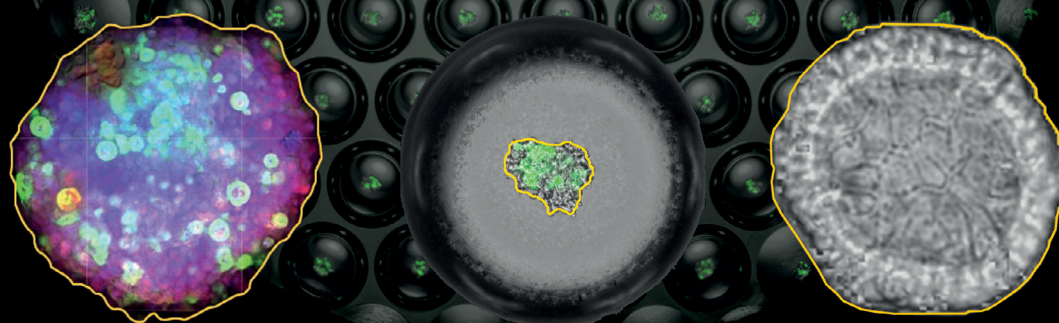


SPARK[®] CYTO 3D^{AI} ANALYSIS TOOLS... COMING SOON.

Scale 3D cell experiments through fully automated workflows
and AI-based analysis.



Complex 3D cell cultures can now benefit from automation, allowing you to standardize complex protocols to bring newfound reproducibility and accuracy into your workflows. Tecan's new AI-based 3D analysis tools for the Spark Cyto imaging multimode reader make it possible to automatically monitor 3D cell cultures - including the analysis of spheroids and organoids in real-time - helping to rapidly translate lab results into meaningful insights.

Scale your 3D cell cultures with confidence using AI-based 3D analysis tools on the Spark Cyto - coming soon from Tecan.



FOR MORE INFORMATION, visit
<https://www.tecan.com/scaling-3d-spheroid-and-organoid-cell-experiments>

Spark Cyto is for research use only. Not for use in diagnostic procedures.
Spark Cyto 3D^{AI} analysis tools are under development.

Key features

- ✓ Optional **image-based** or **LED-based autofocus** offers full plate format flexibility for round and flat bottom formats
- ✓ **Automated z-stacking capability** to capture images in different planes and maximize insights
- ✓ Fluorescent and label-free **AI-based spheroid and organoid segmentation**
- ✓ Automated generation of **time-lapse videos** to visualize changes over time
- ✓ Real-time **multiparametric analysis** of each well and object, including count, size, morphology and fluorescence intensity
- ✓ **Multiplex plate reading** and cell image analysis for reliable insights, such as ATP level and spheroid growth
- ✓ **Matrix plate view** that gives an overview of the whole plate, including a growth curve for each well
- ✓ Support of scaffold-based and scaffold-free formats in **6- to 384-well plates**, as well as other high density 3D microwell formats

Benefits

- ✓ **Automated and standardized** monitoring and analysis of 3D cell models, leading to more reliable and reproducible results
- ✓ Reduced manual work and **increased throughput**
- ✓ **Multiplexing capabilities** to increase quality and robustness of the data set
- ✓ **Easy to use** and intuitive software



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