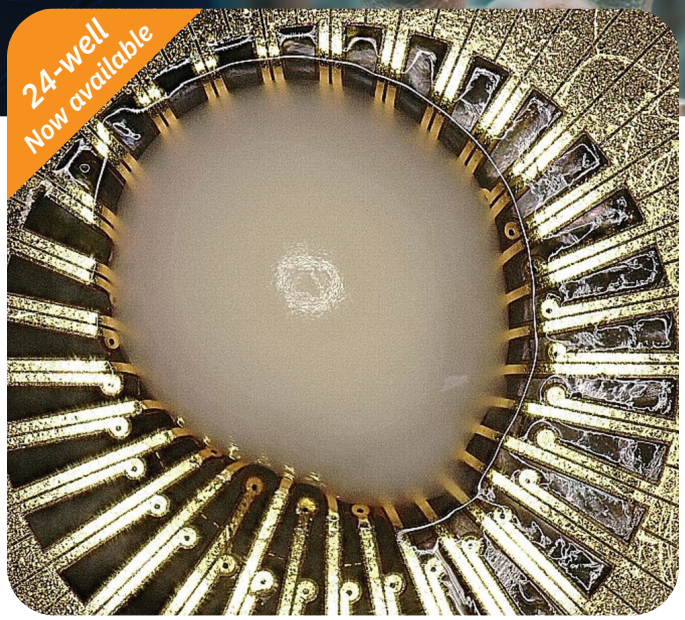
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>> Organoids on Synexus

The MEA for organoid research



The future is 3D

Organoids are transforming brain research, providing new insights into human development, disease modeling, and therapeutic discovery.

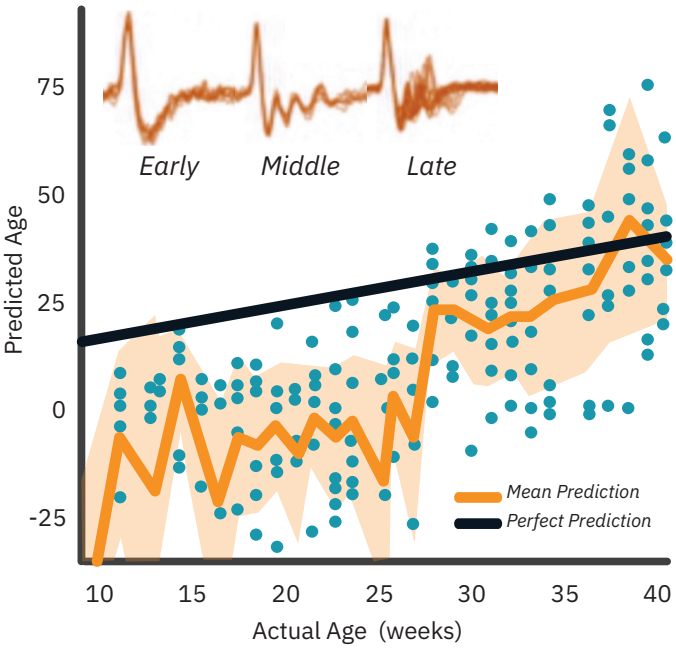
Synexus is the **platform built for organoids**, delivering long-term, noninvasive recordings that unlock the full potential of these complex 3D models.

The MEA of choice

With over 100 peer-reviewed publications, **researchers worldwide choose Axion MEA** to push the boundaries of neuroscience and accelerate discovery.

100+

Organoid Publications



Complete functional readouts

Track how neural organoids grow, mature, and model disease with Synexus' rich, noninvasive electrophysiological recordings.

- **Analyze** over two dozen neural metrics
- **Monitor** the emergence of complex LFP activity
- **Test** multiple conditions simultaneously

Figure: As cerebral organoids matured, their MEA activity patterns closely mirrored *in vivo* EEG recordings - highlighting the relevance of organoid data to human brain development. Data from: Muotri, Alysson. (2019, Sep. 17). Measuring oscillatory waves in cerebral organoids [Webinar]. Axion BioSystems.

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>> Designed for organoids

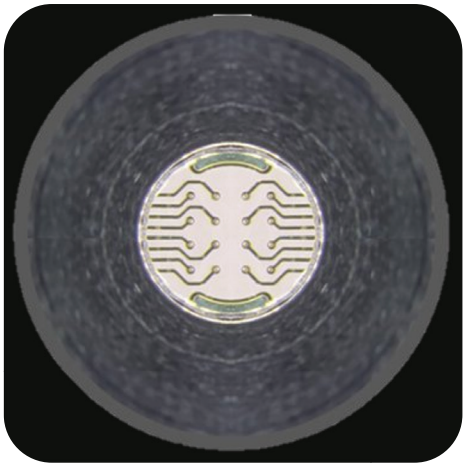
To learn more:
Scan the QR code or visit:
axionbio.com

Studying 3D cultures like organoids and spheroids requires specialized tools. Axion BioSystems' **organoid MEA** portfolio is purpose-built to address the unique needs of these complex models.



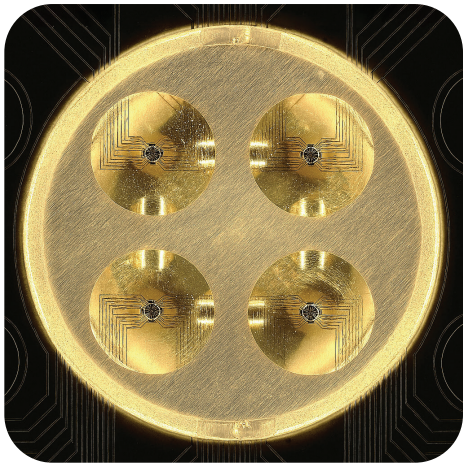
3DMap™

Flexible electrodes for tracking activity across the surface



SpheroGuide™

High-throughput, targeted placement for large organoids

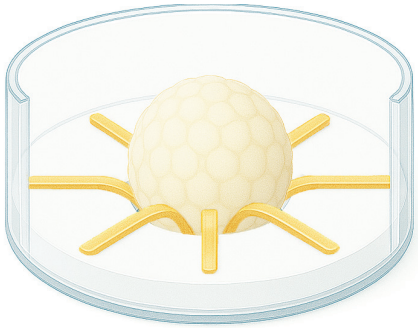


SpheroHD™

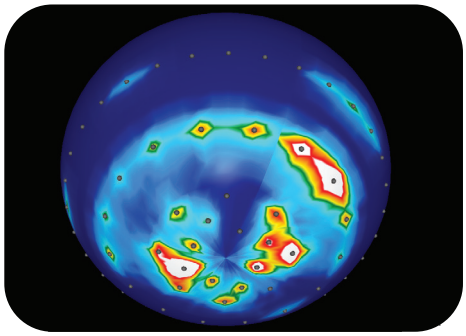
High-density electrodes for small organoids/spheroids

Fit to your biology

3DMap is designed to interface with 3D organoids like never before, using **flexible electrode technology** to capture signals across the surface. Available in single, 12, and 24-well formats.



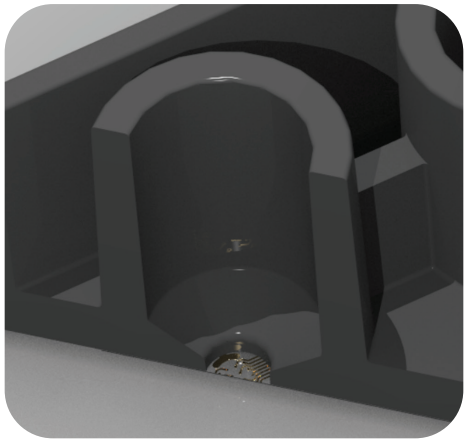
Flexible electrodes wrap around the organoid



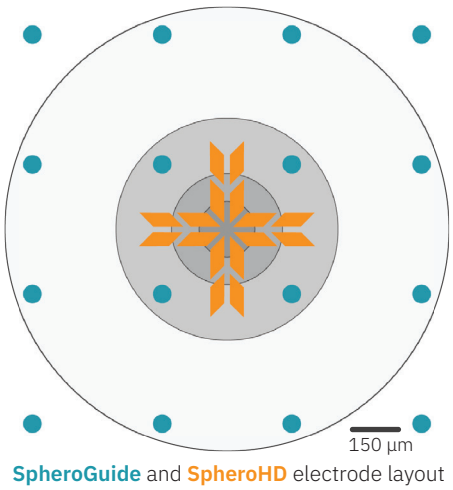
Activity is mapped in 3D in AxIS software

No matter the size

SpheroGuide and **SpheroHD** have you covered. Both feature **integrated placement funnels** for fast, accurate positioning. SpheroGuide is ideal for larger organoids, while SpheroHD's **high-density electrode** arrays are perfect for smaller organoids or spheroids.



Well shape guides organoids to the electrodes



SpheroGuide and SpheroHD electrode layout