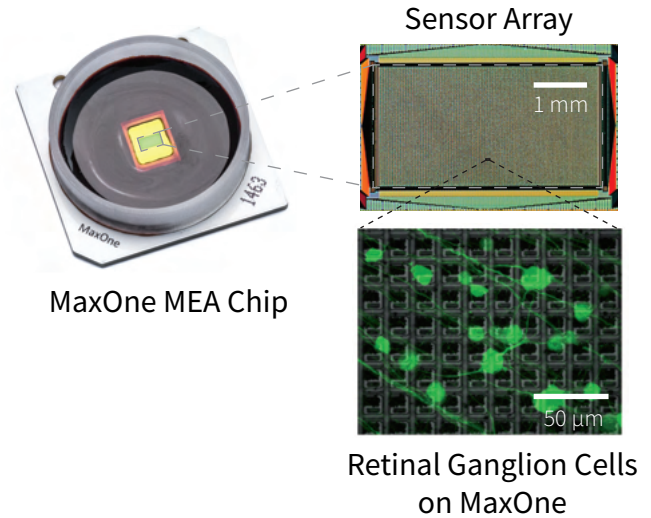
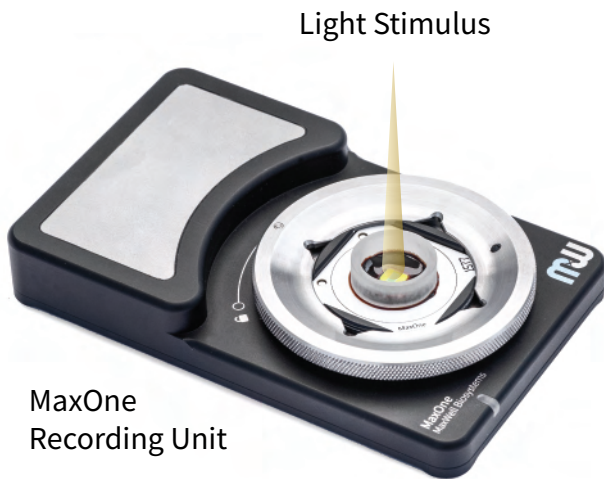


# MaxOne for Retinal Studies



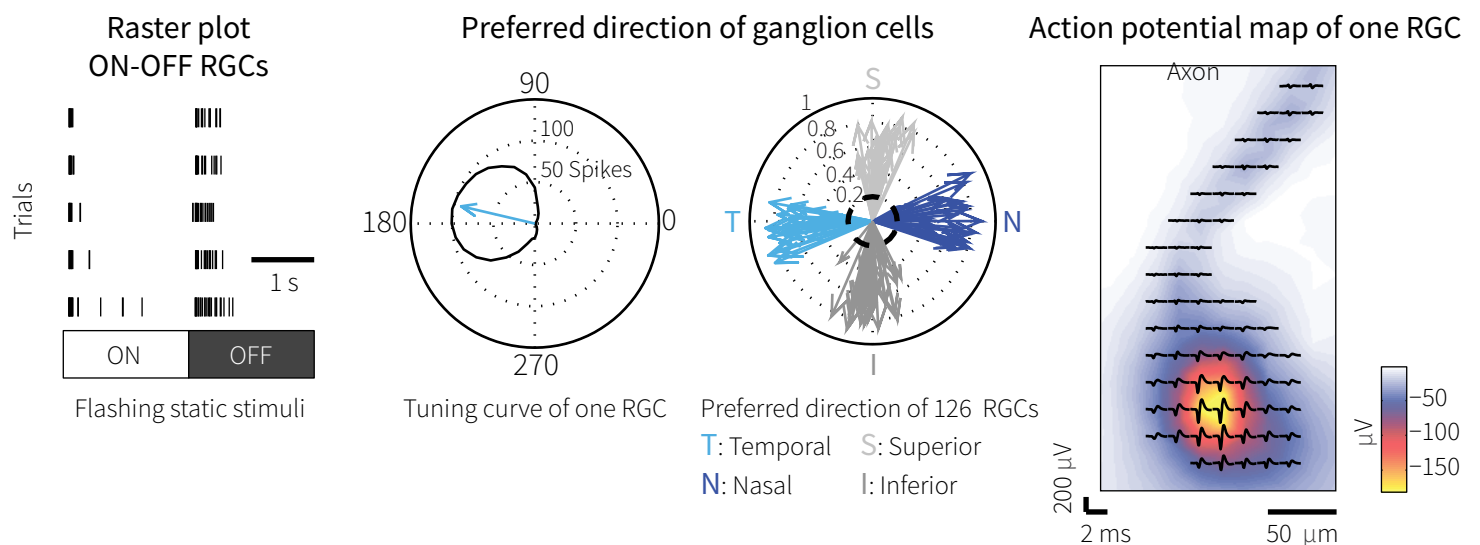
**MaxOne**, a high-density microelectrode array (HD-MEA) system, is best suited for vision research.

High-resolution enables recording of every retinal ganglion cell

Combining MaxOne with a light stimulation set-up allows every scientist to access and investigate retinal ganglion cell function *ex vivo*.

- ⚡ 26,400 electrodes
- ⚡ 8 mm<sup>2</sup> sensor area
- ⚡ 3,265 els. per mm<sup>2</sup>
- ⚡ Low noise (2.4  $\mu\text{V}_{\text{rms}}$ )
- ⚡ 20 kHz sampling rate
- ⚡ Up to 78 dB amp. gain

## Identify the Function of Retinal Ganglion Cells (RGCs)



Record and identify every retinal ganglion cell type on the MEA.

The light response of every retinal ganglion cell (RGC) on the MEA can be recorded and analyzed using MaxOne.

- ⚡ MaxOne's signal-to-noise ratio + high spatio-temporal resolution allow the analysis of RGC axonal signals.
- ⚡ Flashing static light reveals different RGC firing properties: ON type, OFF type, or ON-OFF type.
- ⚡ Direction-selective RGC responses can be extracted using moving stimuli.