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Feature	MEAs (single cells) or LFP electrodes, EEG (population recordings)	Genetically encoded optical indicators (calcium or voltage)
<b>Single-cell resolution level</b>		
Number of cells that can be simultaneously recorded (best case)	~200	~500 ( <i>in vivo</i> ) <sup>19-21</sup>
Density (limit of spatial resolution)	100 $\mu\text{m}$ (due to tissue damage, electrode wiring and volume conduction of extracellular currents)	~1–5 $\mu\text{m}$ (due to light scattering, photon budget per time and spatial bins) <sup>141</sup>
Information content	Action potentials and LFPs	Calcium indicators: action potential events (routinely achieved <i>in vivo</i> ) Voltage indicators: action potentials and subthreshold potentials (not routinely achieved <i>in vivo</i> )
Temporal resolution (best case)	Sub-millisecond range (practically no limit)	Millisecond range (limited by indicator properties)
Cell class identification	Only possible indirectly and post hoc	Direct through specific genetic targeting of indicator or marker protein
Spatial localization of signal (limit)	Modest (exact absolute and relative positions of recorded neurons generally unknown)	Microscopic level (due to light scattering in tissue)
Recording depth	Practically unlimited	Depth in cortex routinely ~400 $\mu\text{m}$ (up to 700 $\mu\text{m}$ ) <sup>99,141</sup> ; deeper with invasive procedures <sup>90</sup>
Feasibility to record from the same cells over a week or longer	Challenging, modest success rate <sup>142-144</sup>	Possible with high success rate <sup>21</sup>
<b>Population level</b>		
Spatial localization (limit)	LFP: ~100 $\mu\text{m}$ , frequency dependent (volume conduction) ECG and EEG: modest spatial resolution and ambiguous in localization of signals <sup>24</sup>	Microscopic level (due to light scattering in tissue, ~100 $\mu\text{m}$ in wide-field, non-confocal epifluorescence imaging)
Information content	Extracellular currents from local and distant sources; mainly synaptic currents but also action currents <sup>24</sup>	Calcium indicators: population action potential activity Voltage indicators: volume averaged membrane potential (mainly synaptic potentials)
Cell (class) identification or addressability (a priori specification of the cell class that is recorded from)	Not possible in tissues in which different cell types are intermingled (although optoelectronic device-based technologies may eventually enable this) <sup>90,145</sup>	Possible through specific genetic targeting



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