

Microelectrode

A microelectrode is an [electrode](#) of very small size, used in [electrophysiology](#) for either recording of [neural signals](#) or electrical stimulation of nervous tissue. Initially, pulled glass pipette microelectrode was used with later introduction of insulated metal wires. These microelectrodes are made from inert metals with high Young modulus such as tungsten, stainless steel, platinum and iridium oxide and coated with glass or polymer insulator with exposed conductive tips. More recent advances in lithography yielded to silicon based microelectrodes.

see [Microelectrode recording](#).

[Neurons](#) produce [action potentials](#) that are referred to as '[spikes](#)' in laboratory jargon. Frequently this term is used for electrical [signals](#) recorded in the vicinity of individual neurons with a [microelectrode](#) (exception: 'spikes' in EEG recordings)

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