NeuroNexus

EEG Electrode Arrays

Wiring Configurations

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Updated 12/20/2023

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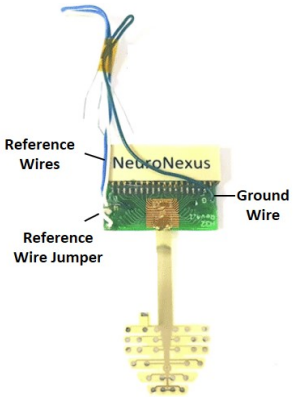
Wiring Configuration

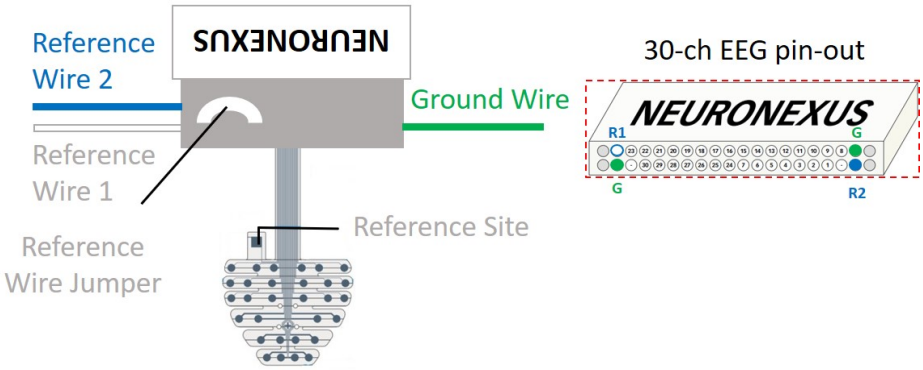
Proper wiring and grounding are essential for obtaining clean and usable signals, maximizing the performance of NeuroNexus probes. This protocol outlines effective strategies for referencing and grounding probes. While the theory is straightforward, practical implementation can be complex. NeuroNexus probes offer multiple wiring options for optimal flexibility. It's crucial to understand these options before placing an animal on the stereotaxic frame, allowing quick adjustments if needed. NeuroNexus has designed probe wiring to accommodate diverse experiments. This section details wiring setups for 16, 32, and 64-channel electrodes. For more information, contact us at support@NeuroNexus.com or visit our website.

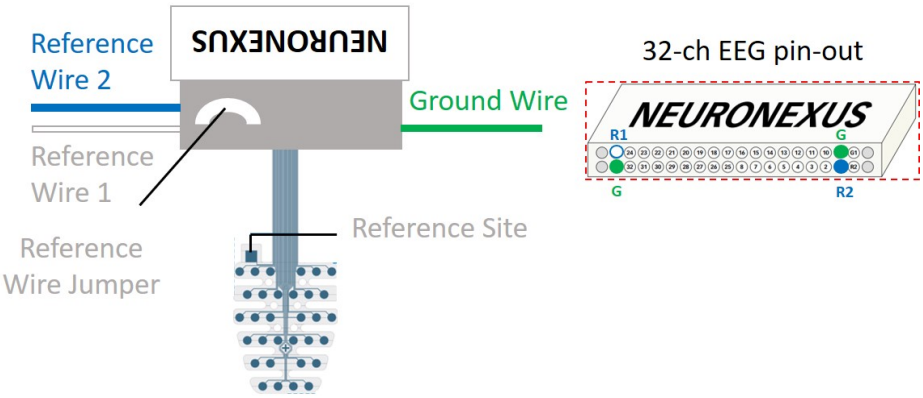
32-ch EEG Electrode Wiring Configuration

EEG probes come with a Reference Wire Jumper, allowing researchers to customize the Reference and Ground Wiring configuration for their application. **It's important to note that all recording sites face up.**

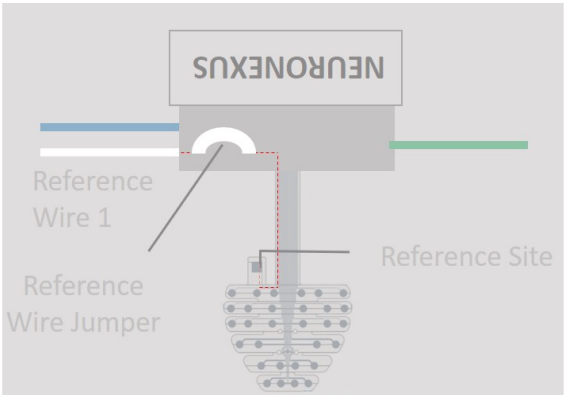
Note: Before implantation, strip a small length of insulation from the ends of Reference and Ground Wires.

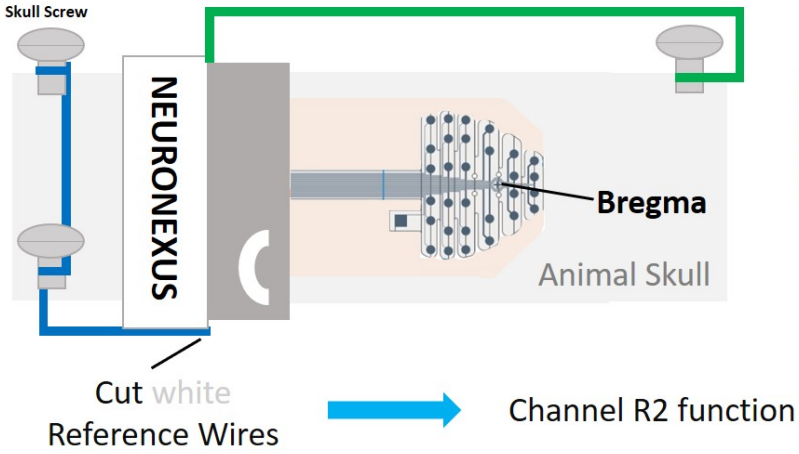
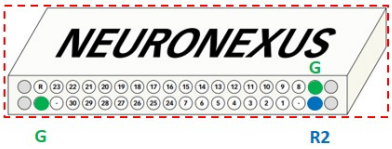






The Reference Wire Jumper and the white Reference Wire 1 are connected to the Reference Site featured in EEG electrode array designs, and they are wired to channel R1 on the Omnetics connector.



Cut the white Reference Wire while connecting the blue wire to the back side of the implant.

Note: In this configuration, all the sites are facing up and are not in contact with the brain surface.