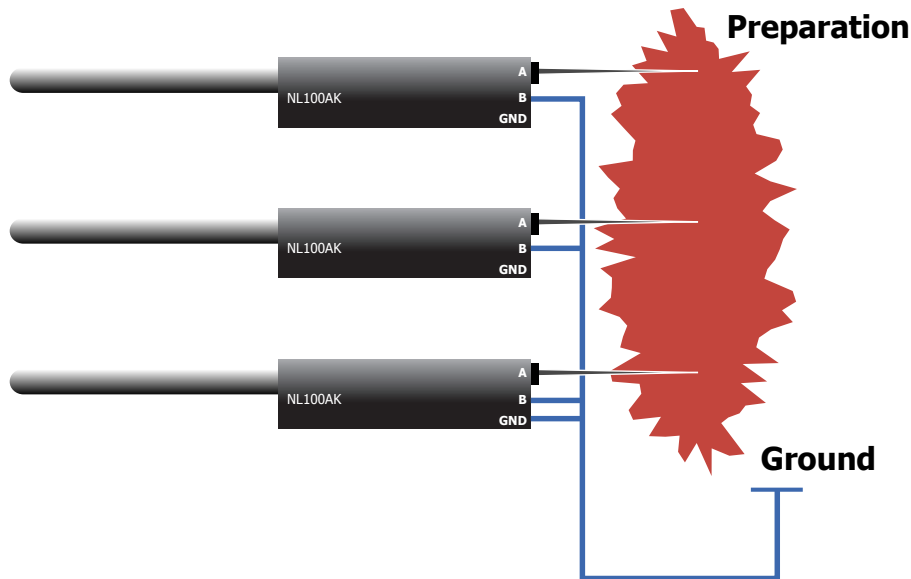


## Avoiding Ground Loops when Recording from Multiple NL100AK AC Preamplifier Headstages



### Overview

When recording using a single **NL100AK AC PREAMPLIFIER HEADSTAGE**, the only ground connection between the preparation and the NeuroLog System should be the connection to the NL100AK GND pin. However, when more than one recording electrode is used, as shown above, each additional NL100AK should be “grounded” to the preparation ONLY with its B (inverting) input; the **NL104A AC PREAMPLIFIER** modules should all be operated in their differential (A-B) modes.

When differential recordings are made (e.g. from nerves across pairs of hook electrodes), only one NL100AK GND connection should be made to the preparation. Additional ground connections (including those through the animal frame or from other monitoring equipment) will produce ground loops and result in undesirable interference.