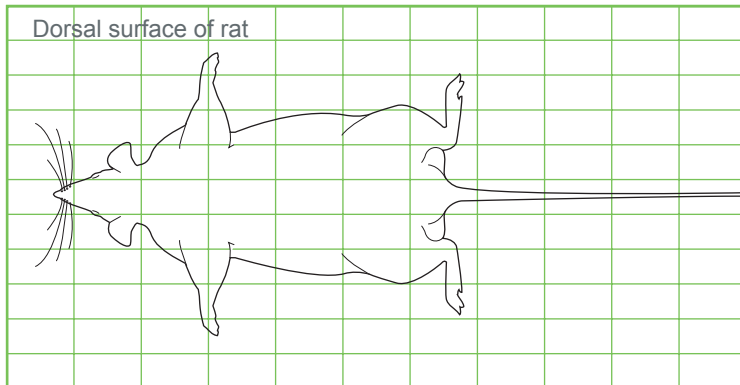


ImpediVet Rat measurement guide

Standardizing the measurement procedure is very important for tracking changes in body composition

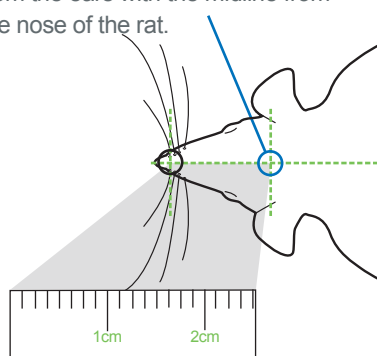
1 Preparing your subject



- Place the rat stomach down with front paws out to the side and hind legs flat and facing backwards.
- When placing the rat ensure not to “overstretch” the rat (The animal should be lying in a “natural fall position”).
- When measuring a series of rats of similar lengths it may be helpful to use a grid paper to standardize the measurement position of the rat.

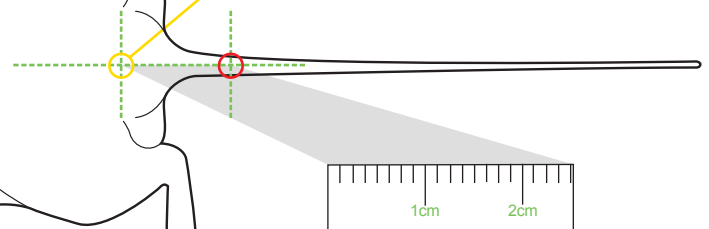
2 Electrode placement

STEP 1: Place the **BLUE** electrode midline down the back by drawing an imaginary intercept from the ears with the midline from the nose of the rat.



STEP 4: Place **BLACK** electrode 2cm (1cm for small rodents) from the **BLUE** electrode placement site.

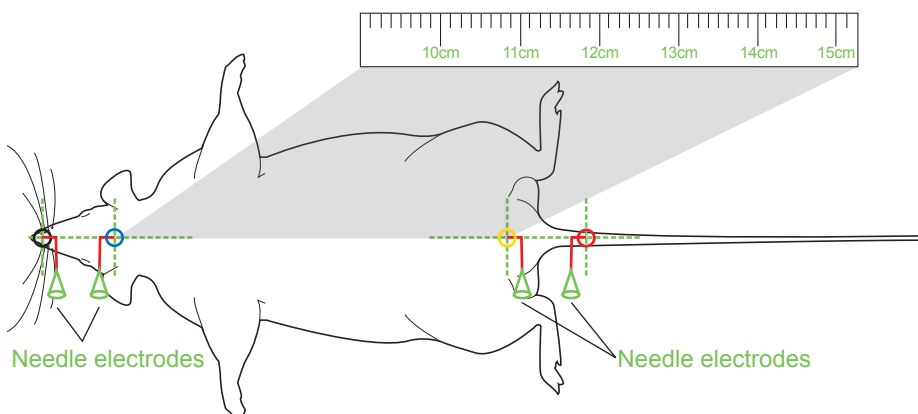
STEP 2: Place the **YELLOW** electrode midline down the back by drawing an imaginary intercept from the where the muscle of the thighs of the rat meet the body to the midline.



STEP 3: Place **RED** electrode 2cm (1cm for small rodents) from the **YELLOW** electrode placement site.

- Make sure the tip of the needle electrode is located at the individual points.
- When preparing electrodes ensure to bend just the tip of the electrode (so the bent tip is approximately 3 mm). This will help you standardize the placement of the electrodes by avoiding “over insertion”.

3 Taking the measurement



- Measure the distance down the midline of the back from the **BLUE** to **YELLOW** electrodes (enter this measurement as Length into the ImpediVet device).
- Make sure the leads of the ImpediVet device are not tangled and lie perpendicular to the rat. It is optimal if the lay of the leads is standardized from measurement to measurement.
- Press the measure button and check for the formation of a well formed Complex Impedance plot.

Make sure that the needles electrodes are inserted with the tips facing away from each other (avoid over insertion).