

## **Procedure: *in vivo* scan of the mouse tibia**

The following scanning procedure for the VivaCT80 (Scanco Medical Ltd, Switzerland) is recommended for the *in vivo* microCT scan of the whole mouse tibia. This approach has been shown not to affect the parameters evaluated by the service (Oliviero et al., 2019).

### **Scanning Parameters**

<i>Voltage:</i>	55 kVp
<i>Intensity:</i>	145 $\mu$ A
<i>Voxel Size:</i>	10.4 $\mu$ m
<i>Filter:</i>	0.5 mm Al filter

### **Acquisition Parameters**

<i>Integration Time:</i>	100 ms
<i>Nr projections:</i>	750
<i>Total Rotation:</i>	180 deg.
<i>Averaging:</i>	1 x
<i>Duration of Scan:</i>	Approx 25 min

### **Reconstruction Parameters**

*Beam Hardening Correction:* Yes, 1200 mgHA wedge phantom correction