

Device for chronic studies of rat muscle atrophy comprising a force measuring instrument and a flexible traction element. The device is configured in the form of two detachable modules: a wearable module comprising a means for fixation on an animal limb and a movable force transmission element, and a measuring module comprising elements for connection with the wearable module and the force measuring instrument. Wherein the flexible traction element is configured to transmit force from a muscle to the force measuring instrument when the modules are connected, and is further configured for alternate connection with the movable force transmission element of the wearable module.