Surgical Preclinical Services for Research Models

All the research methods we are performing on mice and rats.

Below are the surgical techniques:

1. **Mouse and rat myocardial infarction**.

2. **Myocardial ischemia/Reperfusion:**

3. **Transaortic constriction and Transaortic debanding.**

4. **Mouse model for Pulmonary Hypertension** (Pulmonary artery constriction)

5. **Renal artery unilateral or bilateral constriction (** By partially constructing left , right or both renal arteries

6. **Highlimb Ischemia:**

7. **Blood pressure measurements.**
8. **Jugular vein catheterization.**
9. **Transthoracic echocardiography.**

   We will do all measurements and send data as echo images or in an excel spreadsheet with calculated data.
10. **Stress echocardiography:**

11. **Echo guided intracardiac injection**
    In anesthetized animals we can administer inject drugs into the cardiac chamber.
12. **Implantation of alzet and Ipreciso drug delivery pumps.**

13. **Carotid Artery endothelial damage:**
14. **Middle Cerebral artery occlusion (MCAO):**