



# Animal Center (AC)

## What we do

Within international consortium, the AC is responsible for revision of protocols for in vivo trials of one new adaptive pacemaker and for compliance with MHRA and FDA regulations. In particular, AC investigates the following key regulatory considerations:

- bio-compatibility of the materials that will be in contact with body fluids and tissues
- electrical safety which will be estimated by mapping the safety envelope of the technology and the stability of heart stimulation under special circumstances such as a patient undertaking a MRI scan
- power consumption analysis for estimating the autonomy of the pacemaker with a given battery
- external control of the pacemaker state with telemetry
- quality management at the ISO 5841-3:2013 international standard or equivalent
- clinical trials at the EU No 536/2014 international standard.

AC collaborates also with the Biostatistics ICRC facility to make sure that the experimental design and statistical analysis are performed correctly, in accordance with 3Rs Policy.

### **International Clinical Research Center (FNUSA-ICRC)**

St. Anne's University Hospital Brno

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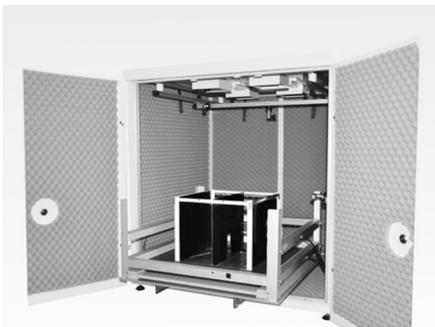
[www.fnusa-icrc.org/en/research/research-platforms/animal-center.html](http://www.fnusa-icrc.org/en/research/research-platforms/animal-center.html)

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#### PhenoMaster / LabMaster

<http://www.tse-systems.com/products/metabolism/home-cage/phenomaster/index.htm>



#### Multi Conditioning System

<http://www.tse-systems.com/products/behavior/conditioning-systems/multi-conditioning.htm>



#### TSE MotoRater System

<http://www.tse-systems.com/products/behavior/motor-function/motorater.htm>



ST. ANNE'S UNIVERSITY HOSPITAL BRNO  
INTERNATIONAL CLINICAL RESEARCH CENTER

## Services and Methodologies Provided

Design of experimental procedures for preclinical research with rodents and pigs, fulfilling 3Rs Policy (Replacement, Reduction, Refinement).

Assuring the project license and authorization process. Carrying out experimental procedures with imaging techniques on rodents and pigs with proper veterinarian and technical assistance.

Behavioural experiments on rodents for cognitive, learning and motor function analysis.

Compliance with regulatory framework (MHRA, EMA, FDA).

## Equipment

- **Phenomaster (TSE Systems)** for behavioural and physiological monitoring in home cage stress-reduced environment. Available for mice and rats.
- **Multiconditioning system (TSE Systems)**, a modular test platform for evaluation of learning, memory, emotion and stress-related behaviors in mice and rats through nine standard conditioning paradigms
- **Motorater (TSE Systems)** for standardized quantitative and objective kinematic evaluation of animal movements

## Contact and Location

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