Clinical phenotyping

Institut Clinique de la Souris

Right answer for your scientific question....How to phenotype ?

First line analysis Second line analysis

Targeted vs. Comprehensive

Standardized assays Customized protocols Standardized protocols
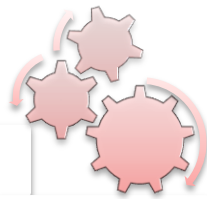
What's wrong with my mouse ?

More than one function

First-line analysis
- Simple and rapid tests
- Non invasive before term
- Wide range of functions

Standardized
- Well defined and validated protocols
- Generating hypothesis
- Aiming to generate unbiased data

Which mechanisms are involved ?

Targeted function

Second-line analysis
- Allows further analysis
- Provides more precise information on dedicated function(s)

Customized
- Hypothesis driven protocols
- Aiming to answer specific objectives

6 Platforms services

150-200 projects / year

~ 12 therapeutic areas

In vivo disease models

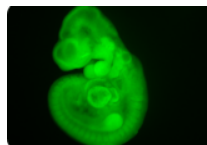**More than 250 assays available for various functions**

Therapeutic areas

- Psychiatry, Neurology
- Cardiac system
- Vascular system
- Lung exploration functions
- Energy metabolism exploration
- Glucose homeostasis
- Bone exploration
- Intestinal function
- Renal function
- Immunology , inflammation
- Development and growth

Deliverables
☐ Data, reports and expertise
☐ Biological samples
    (Blood, tissue, fluids, . . .)

In vivo disease models

- Lung disease, asthma, inflammation
- Intestinal bowel disease (~DSS), peritonitis
- Hypertension, Cardiac hypertrophy
- Diet induced atherosclerosis
- Diet induced obesity, Diabetes
- Memory and learning deficits, Alzheimer, . . .

Drug screening:

- target identification / validation
- effectiveness
- risk assessments
- side effects
- target reorientation