

## PhenoFirst<sup>®</sup> Phenotyping Panel

Charles River Discovery Services provides a variety of therapeutic phenotyping panels. Our PhenoFirst<sup>®</sup> Panel is the first thorough look at a rat or mouse model and includes:

### *In Vivo* Evaluation

- Clinical and primary behavioral observations that provide a broad general assessment of multiple systems

### Basic Pathology

- Gross external examination and body weight
- Gross internal examination evaluating major organs and all tissues for abnormalities
- External gross photographs: left lateral recumbancy and ventral view of organs *in situ*
- Tissues collected: heart, lungs, liver, kidneys, spleen, brain, thymus, stomach, duodenum, pancreas, jejunum, ileum, cecum, colon, reproductive tract, urinary bladder, target organs, and gross abnormalities
- H&E stained slides examined by board-certified veterinary pathologists

### Basic Clinical Pathology

- CBC including differential and platelet count
- Standard clinical chemistry profile: albumin, alkaline phosphatase, ALT, AST, total bilirubin, BUN, calcium, chloride, cholesterol, creatinine, glucose, GGT, globulin (calc), A/G ratio (calc), phosphorous, potassium, total protein, triglycerides, and sodium

- Urinalysis – dipstick: glucose, bilirubin, ketones, protein, nitrites, leukocytes, pH, urobilinogen, blood, and specific gravity

### Available Panels

In addition to the PhenoFirst<sup>®</sup> Panel, Discovery Services provides targeted phenotyping to characterize obesity, metabolism, hypertension, diabetes, osteoporosis, reproduction issues, embryonic lethality, respiratory function, Huntington's disease, and neurodegenerative disease in your unique model.

The minimum recommended sample size for the PhenoFirst<sup>®</sup> Panel is three homozygous or knockout mice and three wild type controls that are matched for age, sex, health status, and genetic background.

**For more information, please call 1.877.CRIVER.1 or e-mail [askcharlesriver@crl.com](mailto:askcharlesriver@crl.com).**