Nephrology Models
In-vivo Efficacy

In House Models:

- Acute Kidney Injury
  (ischemia, inflammation, endothelial
  und tubular cell death)
- 5/6 Nephrectomy
  (glomerular hypertension and
  glomerulosclerosis)
- Unilateral Ureteral Obstruction
  (loss of renal parenchyma and
  fibrosis)
- Renal Artery Stenosis
  (hypertension, renal fibrosis and
  tubular degeneration)
- Renal Transplantation
  (acute and chronic allograft
  rejection)
- Aortic Transplantation
  (vascular rejection and neo-intima
  formation)
- Diabetes Induction Model
  (Streptozotocin > mild diabetic
  nephropathy, insulin-dependent)
- Diabetes Mutation Model
  (BTBR Ob/Ob mice)

In House Analysis:

- Direct Organ Function
- Hematology
- Light Cycler PCR (Renal tissue)
- ELISA (biomarkers: e.g. Kim-1, NGAL,
  NAG)
- FACS (peripheral blood/tissue)
  - Multiplex Analysis (cytokines)
  - CellAnalysis (inflammatory cells)
  - Renal tissue analysis
    (macrophages)