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)
  - Cell Analysis (inflammatory cells)
  - Renal tissue analysis (macrophages)