



Diabetic Complications

Scope of application

- Diabetes is an increasing health and economic burden in the world.
- We use the following models to analyse the development and progression of diabetic nephropathy, neuropathy and retinopathy.

Models

Diabetes models

We have used db/db mice (type II diabetes) and the streptozotocin model (type I diabetes) in short and long term experiments to characterise the development of diabetic kidney damage and peripheral neuropathy.

Diabetic nephropathy

To characterize renal damage we obtain the following parameters.

- Creatinine clearance and inulin clearance
- 24 h albuminuria
- Histological and immunohistological analysis
- Western blotting and RT-PCR

Diabetic neuropathy

To characterize peripheral nerve damage we obtain the following parameters.

- Sensory and motor nerve conductance velocity
- Histological and immunohistological analysis