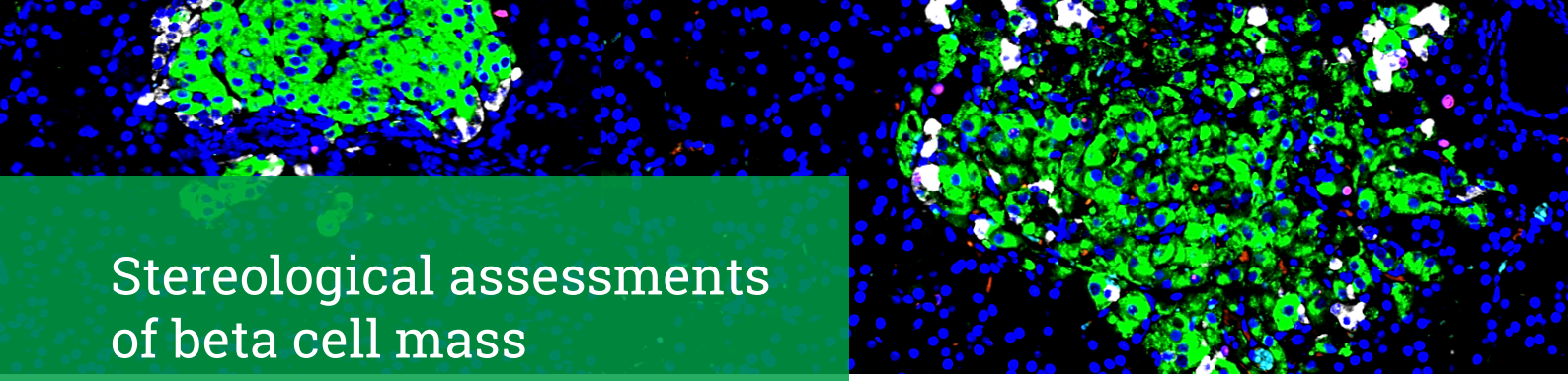


Stereological assessments of beta cell mass

Metabolic response on Pancreatic markers

Gubra has years of experience with pancreatic markers in preclinical models of diabetes. Importantly, stereological analyses of beta-cell dynamics in db/db mice and ZDF rats have challenged the traditional view on beta cell dynamics leading to important novel understandings of drug mechanisms.

Stereological analyses of beta-cell mass

Using stereological sampling principle, immunohistochemical detection of beta cells (anti-insulin) and non-beta cells (antibody cocktail towards anti-pp, somatostatin and glucagon) and image analyses, we provided state-of-the art unbiased quantification of pancreas and islet dynamics.

Drug induced efficacy

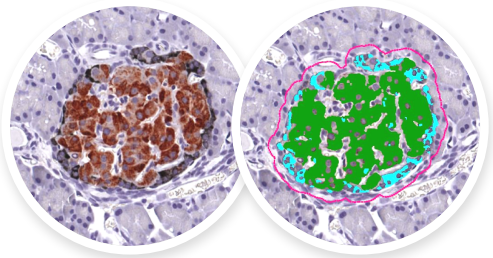
At Gubra, we have published several papers on beta-cell dynamics following treatment with anti-diabetic compounds, incl SGLT-2 inhibitors. A solid experimental design with proper controls have revealed beta-cell rescue as a major endpoint in type-II-diabetes studies.

Beta cell turn-over

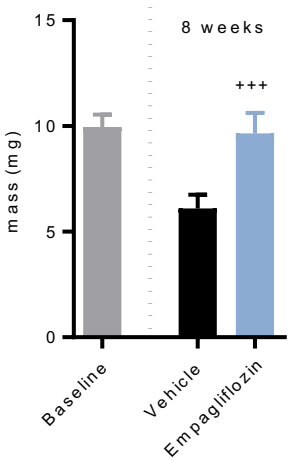
Beta cell dynamics are often driven by changes in beta-cell proliferation, apoptosis or dedifferentiation. We will guide you to select the right marker and provide beautiful brightfield or fluorescence microscopy images with clear data endpoints.

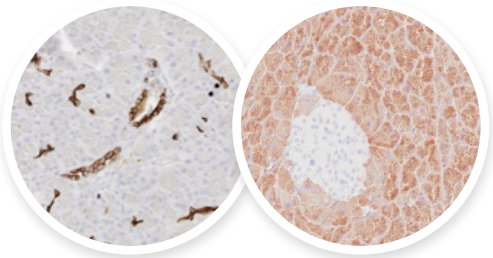
It´s not all about beta cells

During the last decade a lot of research has been directed towards the exocrine pancreas and the ductal system. Check out our publication list to learn more.



Beta- and non-beta cell mass





Duct cells (CK-20) and ki67

Amylase (exocrine tissue)

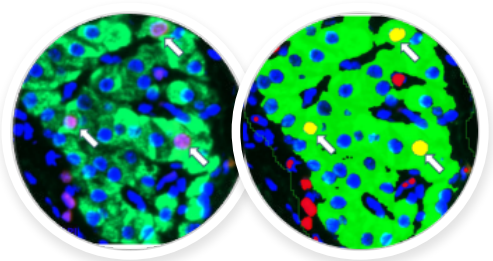
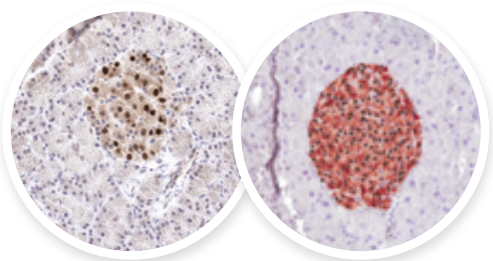


Image analysis of Ki67/Insulin double positive cells.



PDX-1

NKX6.1 and insulin

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