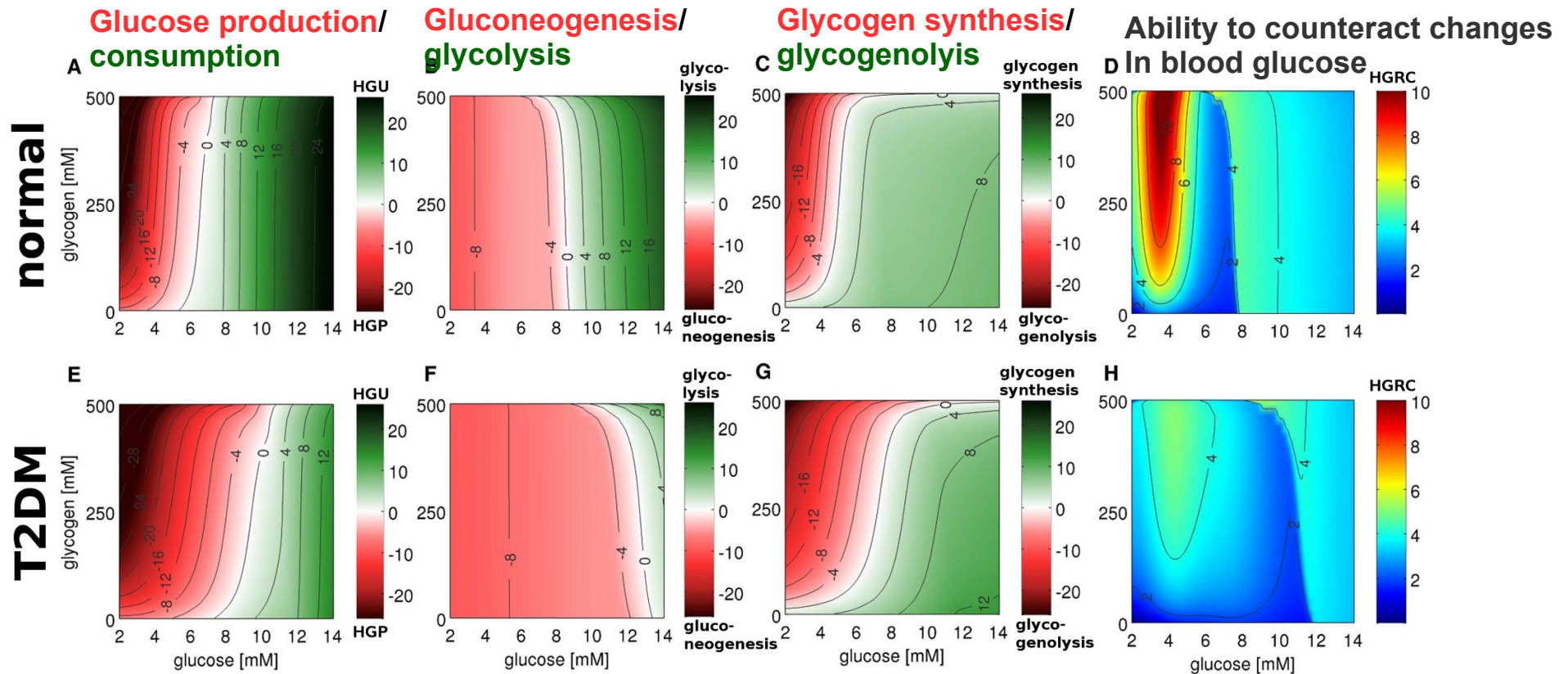
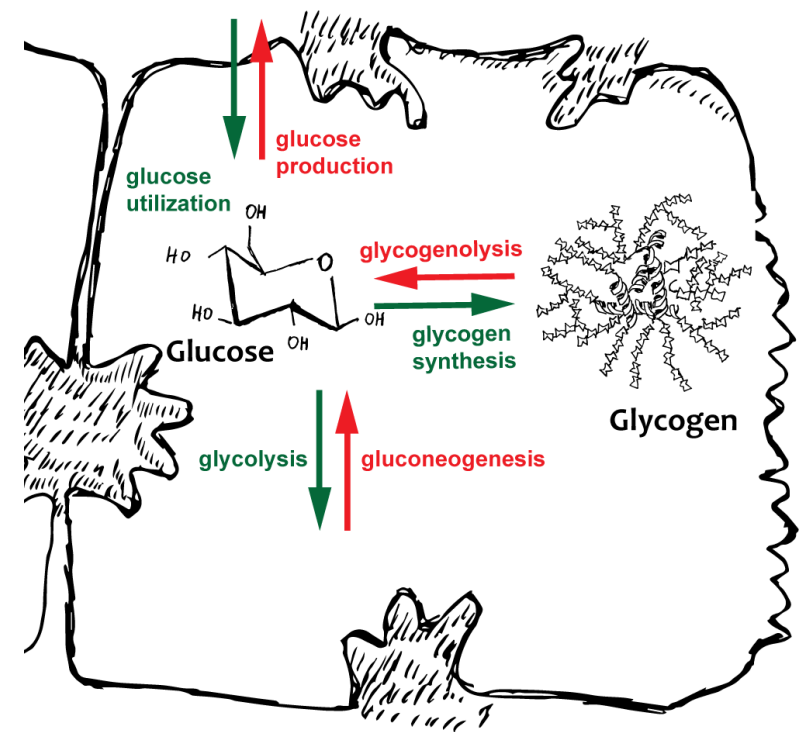


Hepatic glucose metabolism

- Liver plays central role in glucose homeostasis due to its ability to **switch between glucose production & consumption** and the **storage of glucose as glycogen**
- Kinetic model of glucose metabolism integrated with the hormonal regulation via insulin and glucagon
- Analysis of glucose homeostasis under normal conditions and in impairment (diabetes type 2 - T2DM)



Multi-scale liver models

- Liver function complex interplay between structure, perfusion & metabolism on multiple scales
- Modeling provides insights into these interactions
- Predictions of individual metabolic function (galactose clearance) based on tissue models combined with anthropomorphic information

