The Artificial Pancreas

Prototype Artificial Pancreas – Beta Cell
Insulin Pump + Glucose Sensor
Laptop computer with control algorithm (MPC)

Portable Artificial Pancreas – Beta Cell
Insulin Pump + Glucose Sensor
Smartphone computer with control algorithm (MPC)

Portable Artificial Pancreas
Insulin Pump + Glucagon Pump + Glucose Sensors
Smartphone computer with control algorithm (MPC)

Cluster of high performance computers for analysis of data and individualization of the control algorithms