

The Artificial Pancreas

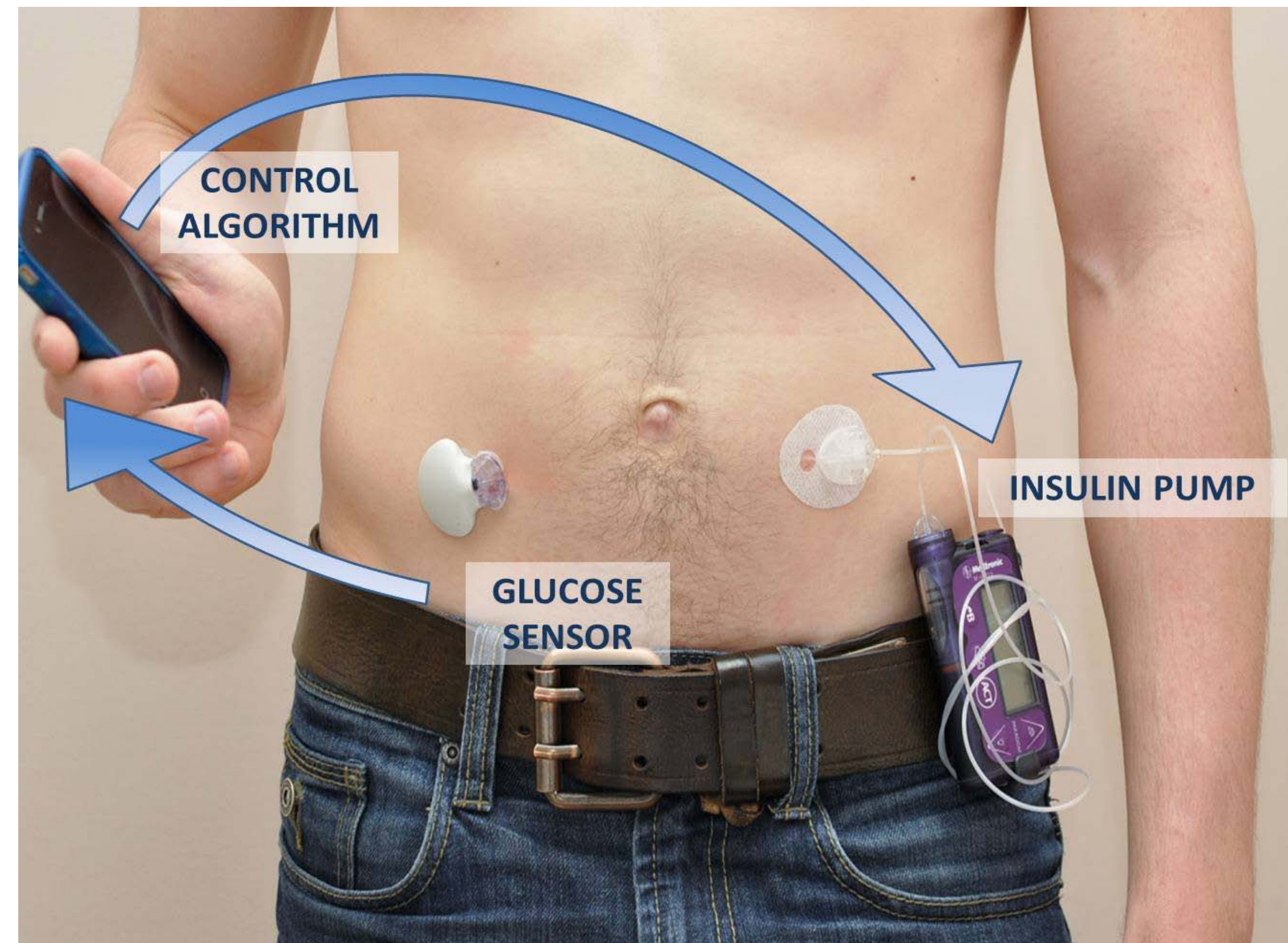
Prototype Artificial Pancreas – Beta Cell

Insulin Pump + Glucose Sensor
Laptop computer with control algorithm (MPC)



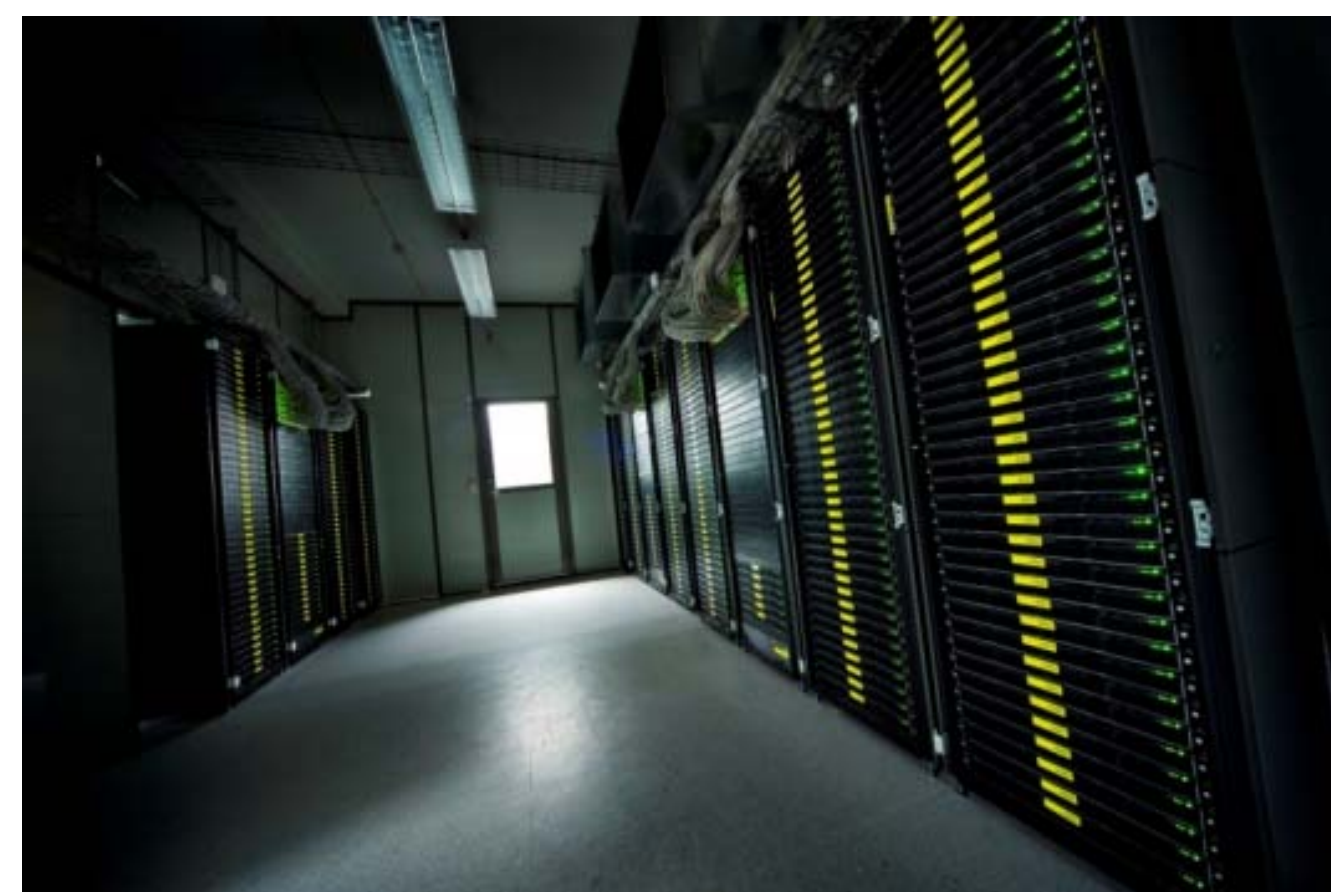
Portable Artificial Pancreas – Beta Cell

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

