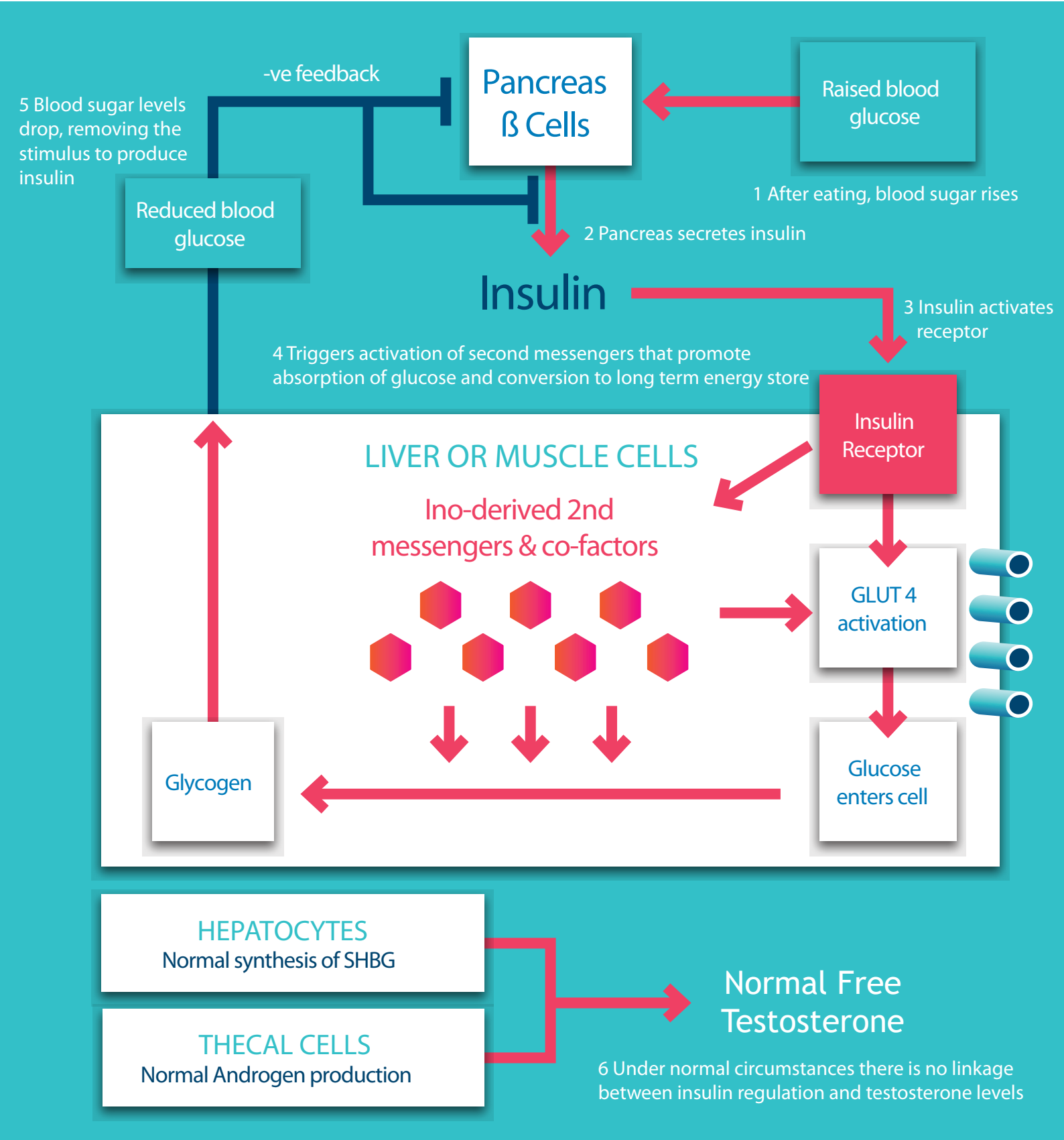
-ve feedback
5 Blood sugar levels drop, removing the stimulus to produce insulin
Pancreas ß Cells
Raised blood glucose
1 After eating, blood sugar rises
Reduced blood glucose
2 Pancreas secretes insulin
Insulin
3 Insulin activates receptor
4 Triggers activation of second messengers that promote absorption of glucose and conversion to long term energy store
Insulin Receptor
LIVER OR MUSCLE CELLS
Ino-derived 2nd messengers & co-factors
GLUT 4 activation
Glucose enters cell
Glycogen
HEPATOCYTES
Normal synthesis of SHBG
THECAL CELLS
Normal Androgen production
Normal Free Testosterone
6 Under normal circumstances there is no linkage between insulin regulation and testosterone levels