



Role of lipogenesis and ER stress in hepatic steatosis

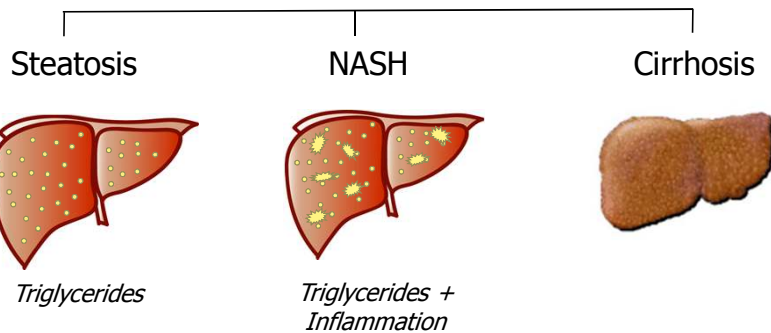


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NAFLD : Non alcoholic fatty liver disease

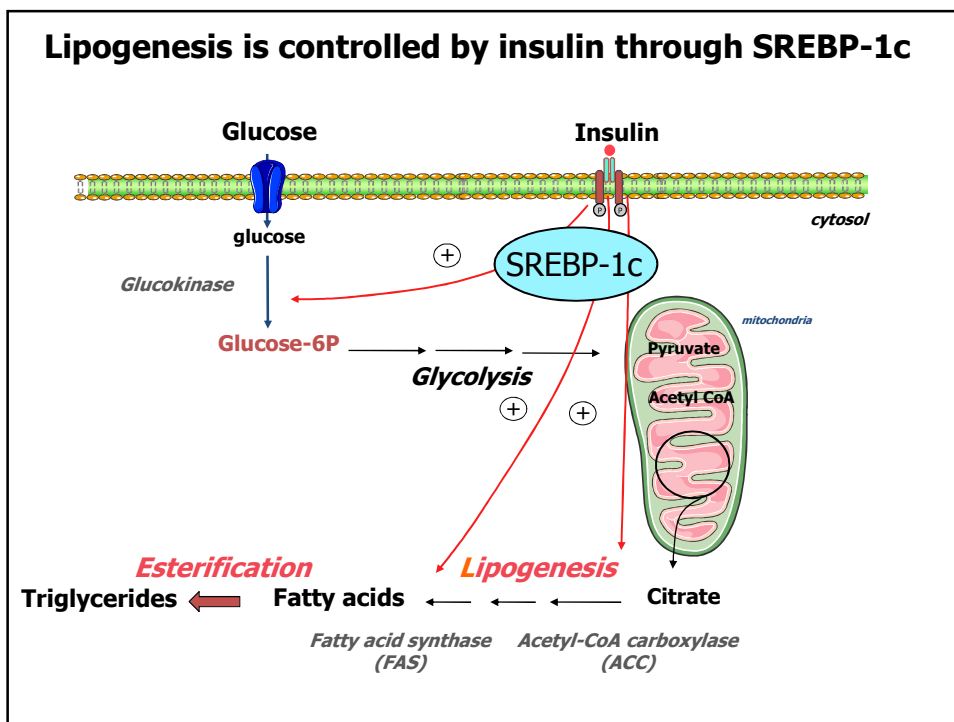
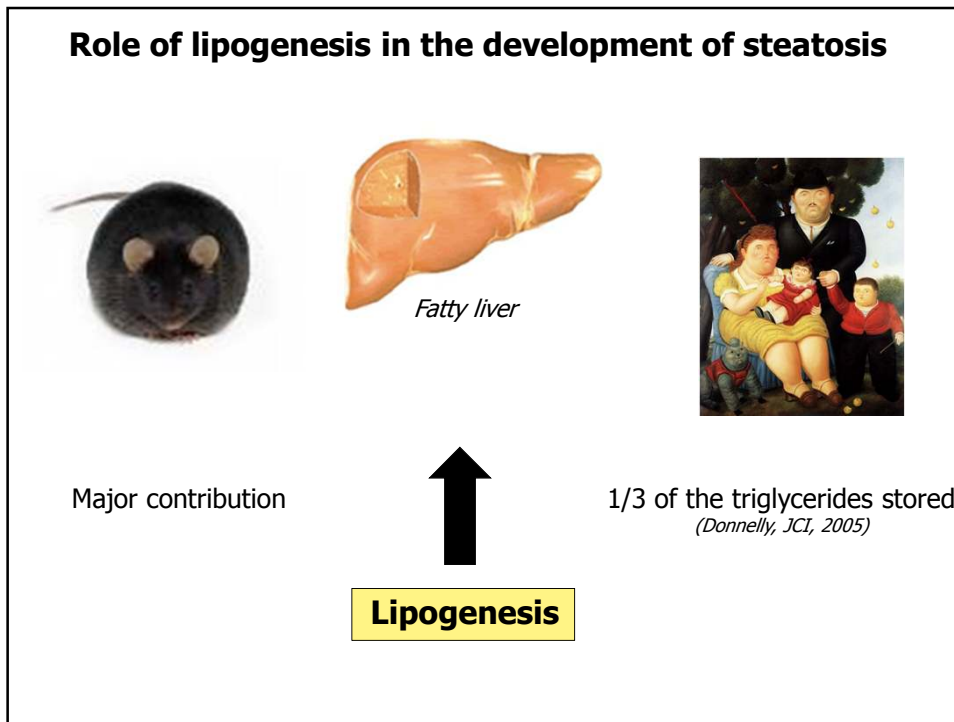
NAFLD

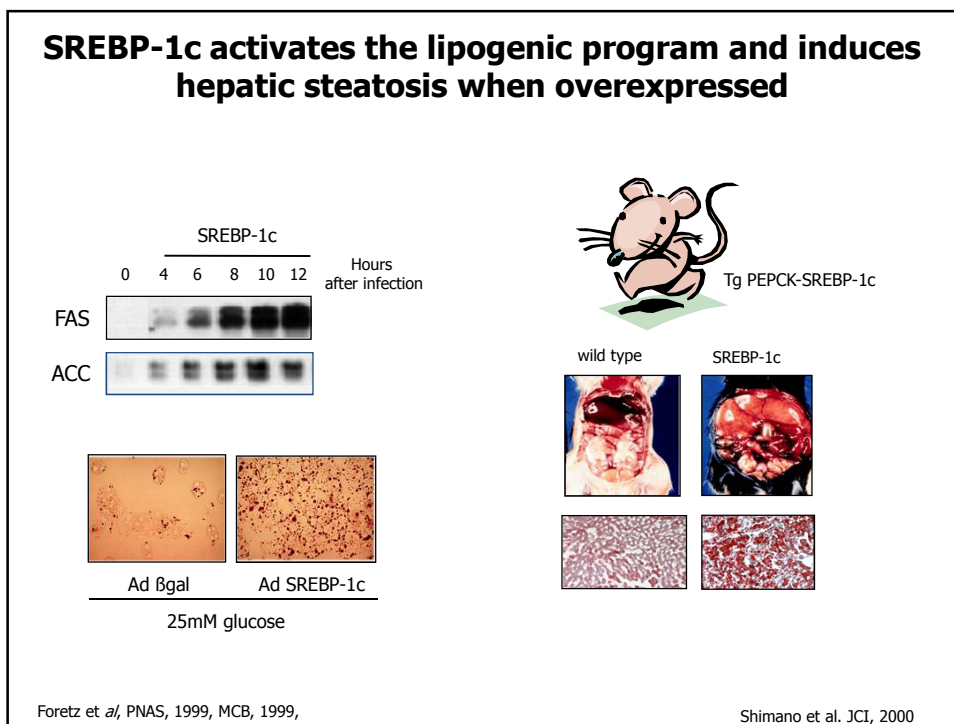
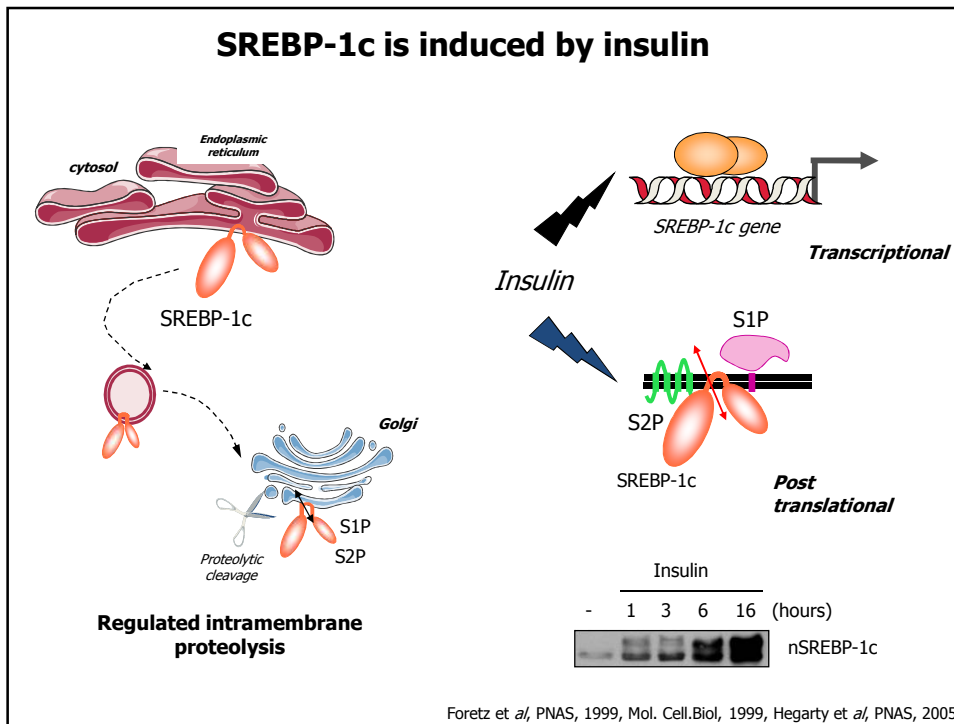


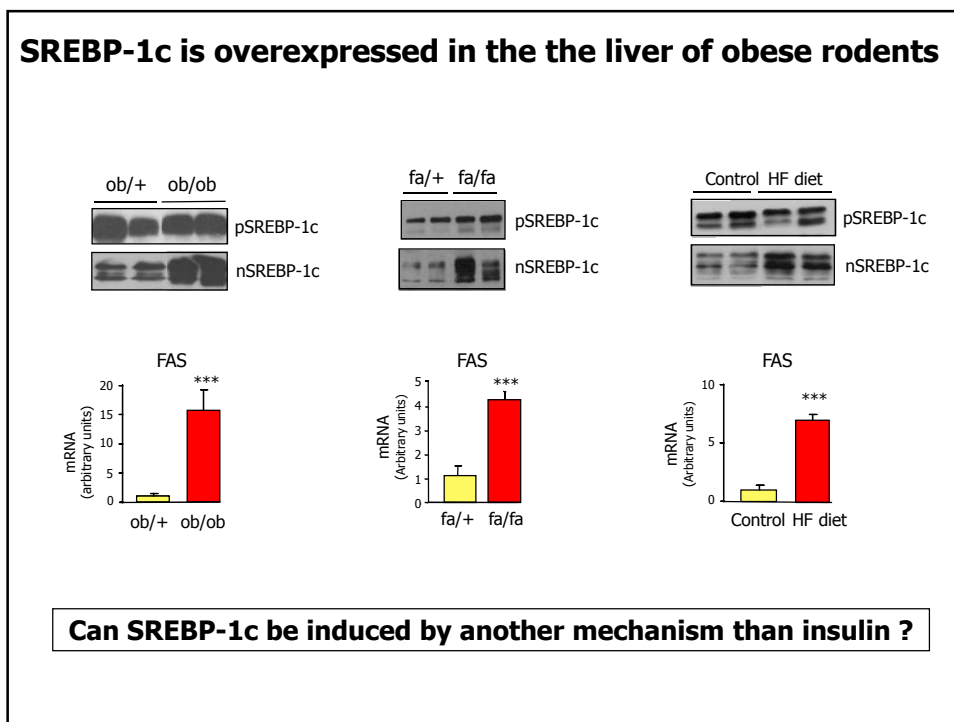
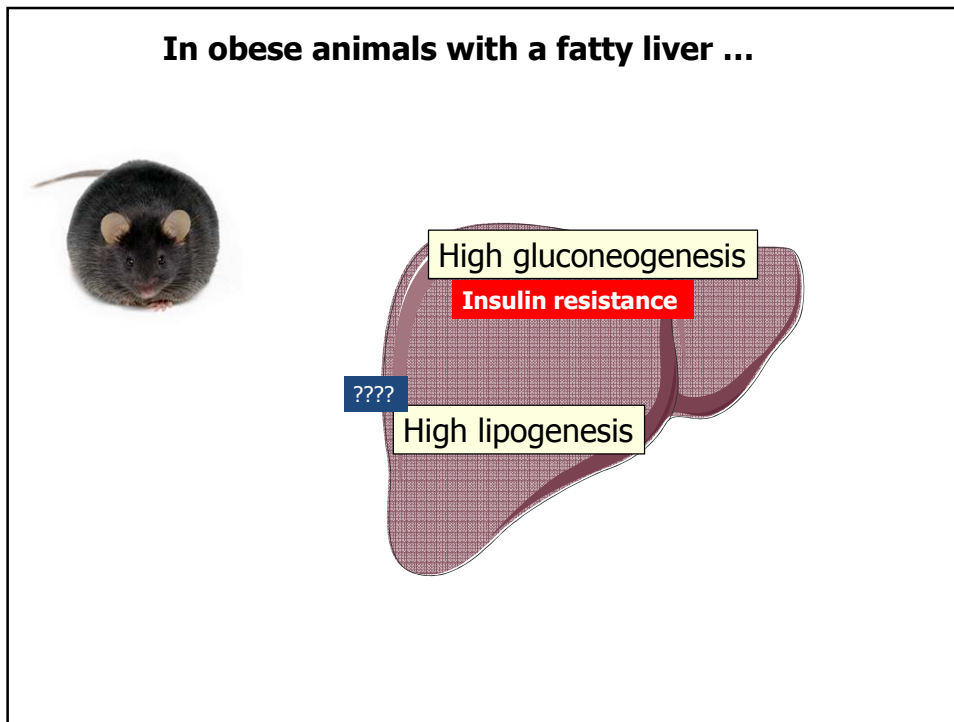
20% in the general population

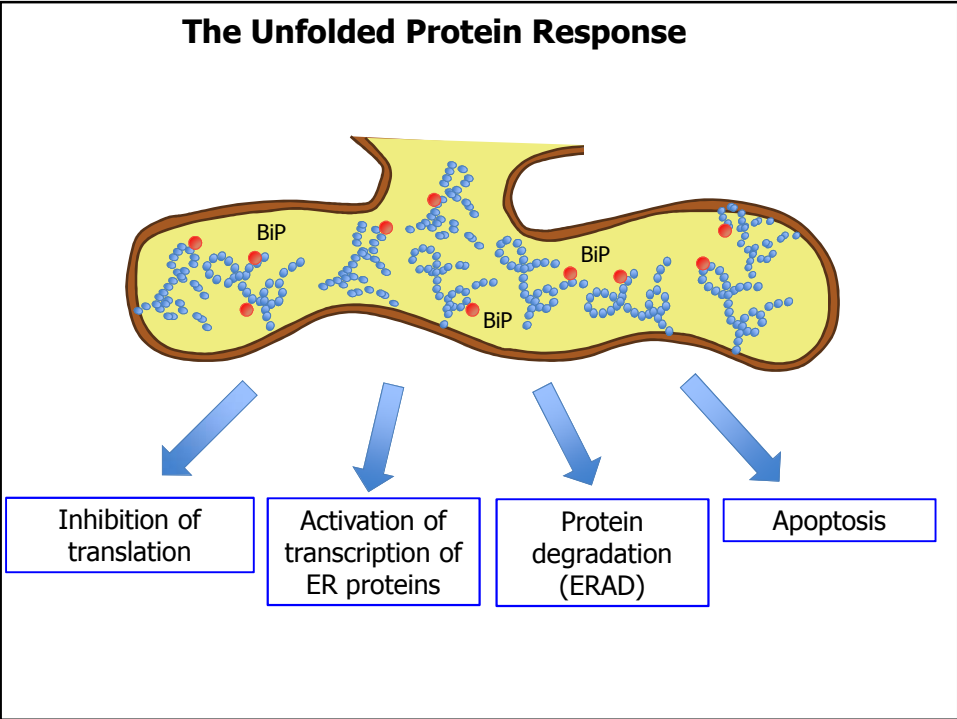
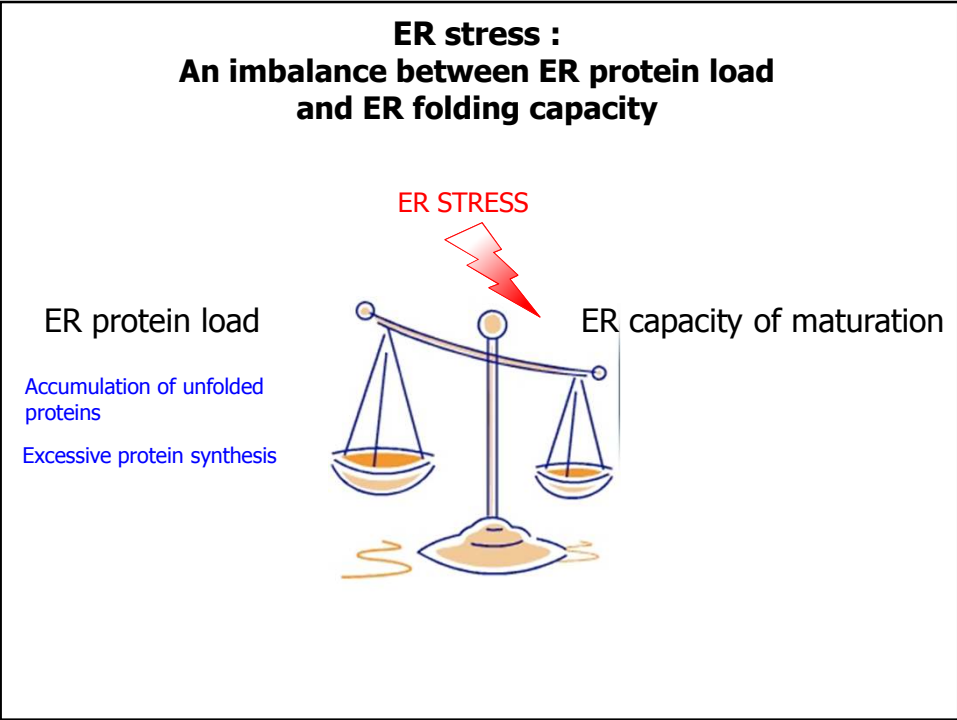


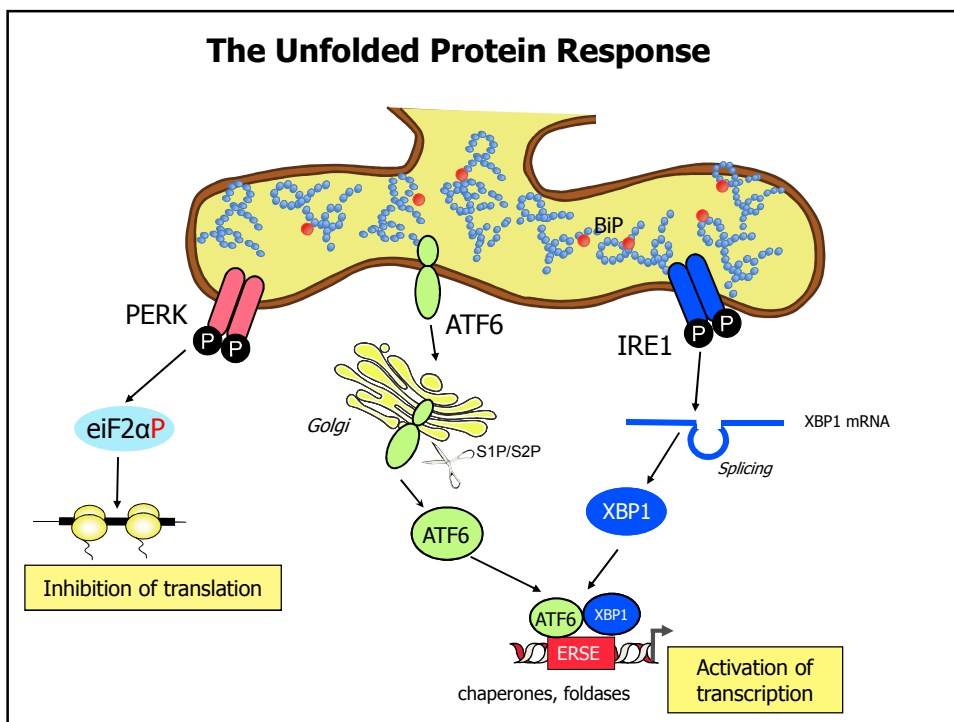
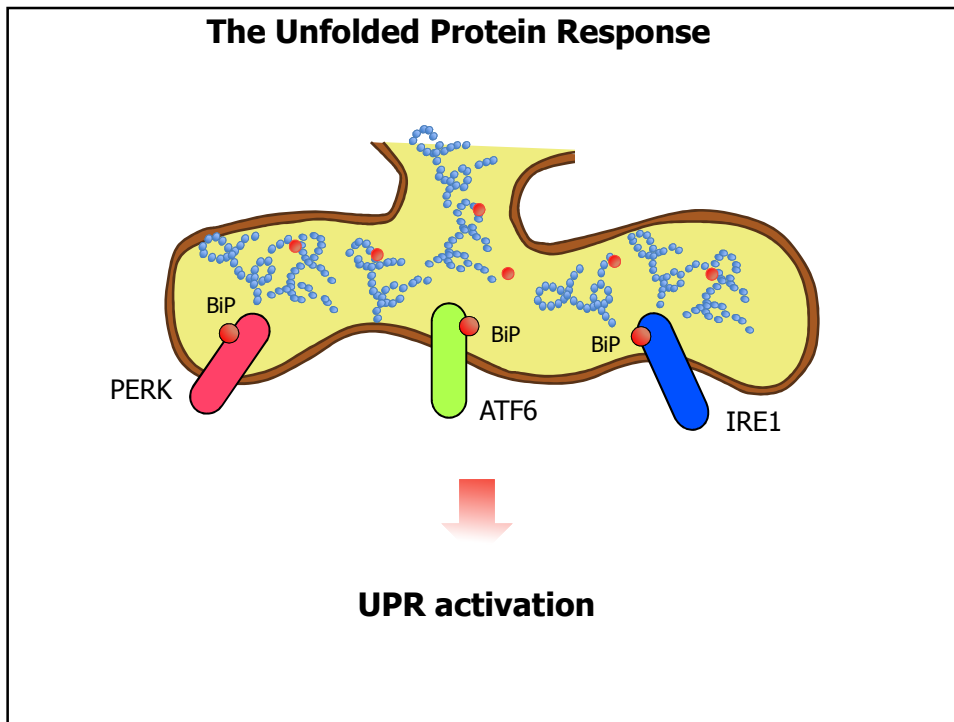
90% in the obese population



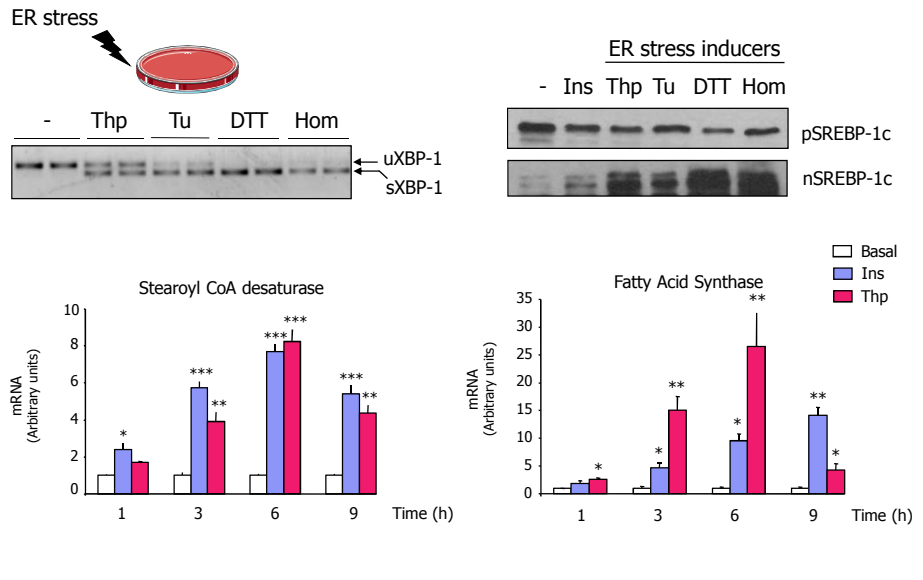








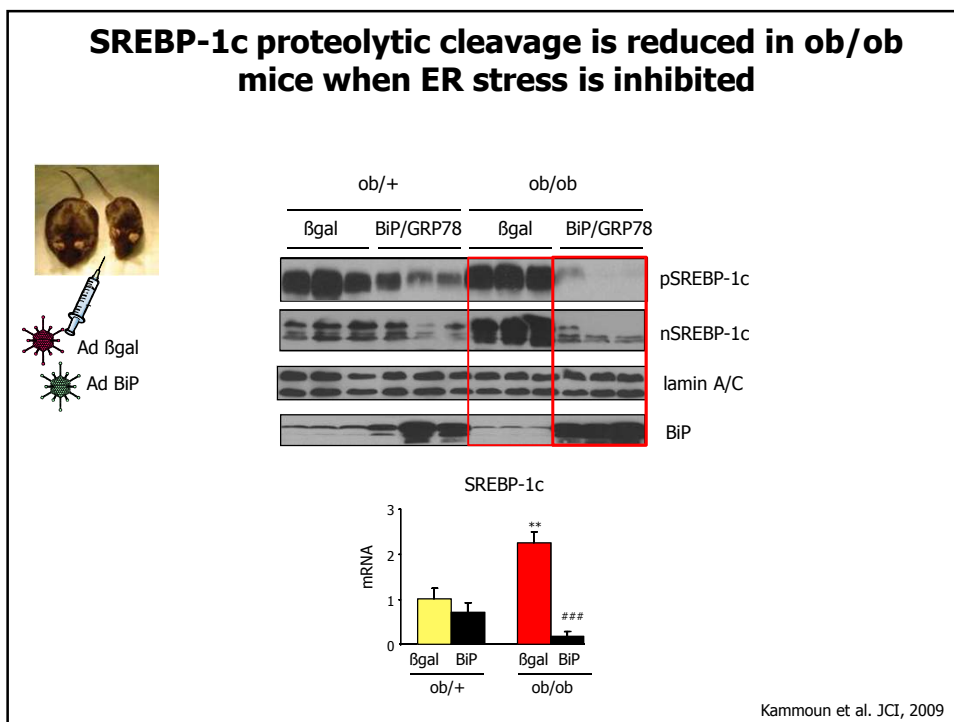
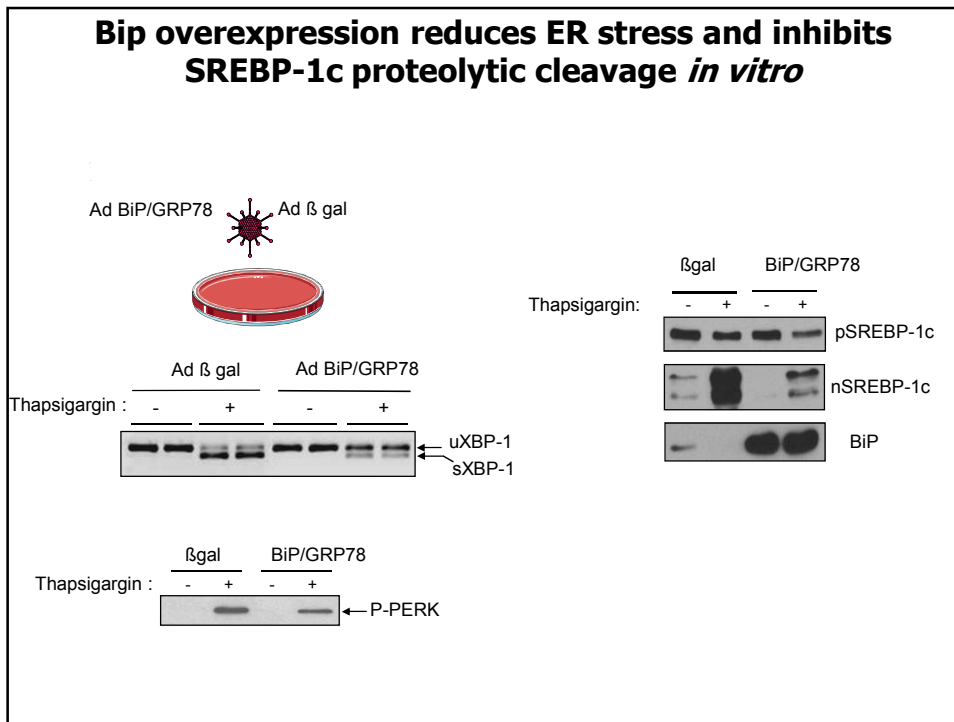
SREBP-1c proteolytic cleavage is induced by ER stress in hepatocytes



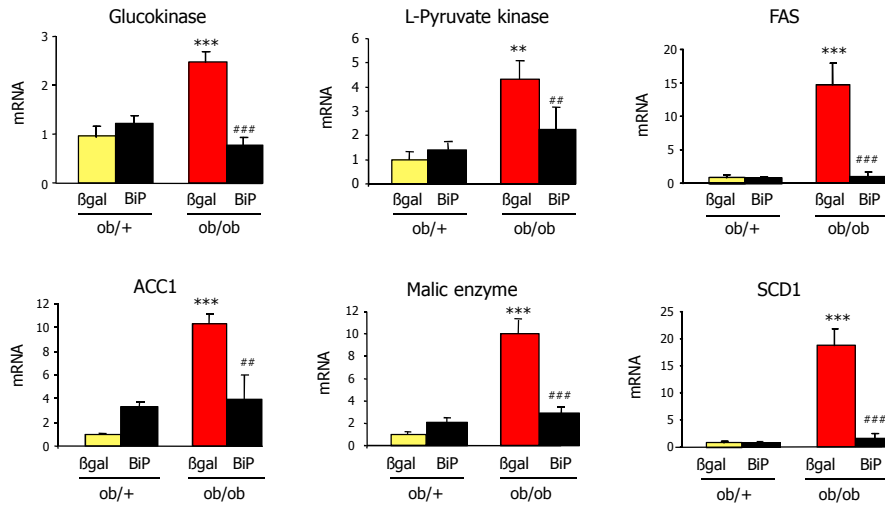
If an ER stress is responsible for SREBP-1c proteolytic cleavage in the liver of obese animals, then inhibition of ER stress should reverse the high lipogenesis and steatosis observed in these animals?

Overexpression of the chaperone Bip/GRP78

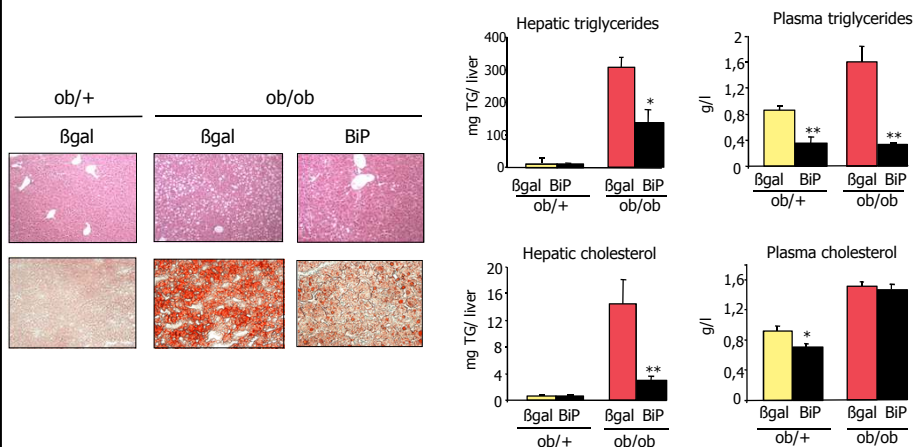




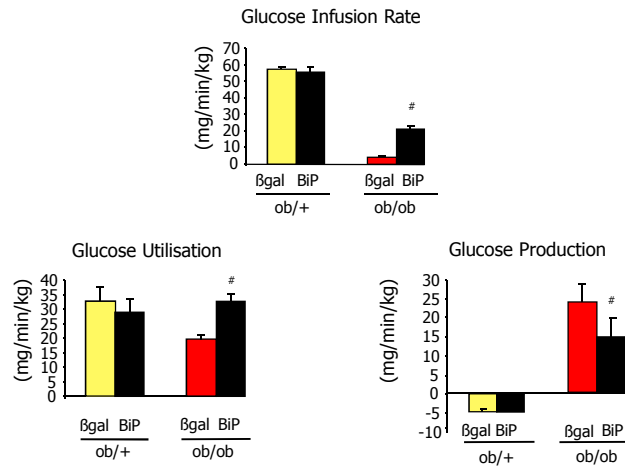
ER stress inhibition decreases lipogenic enzymes gene expression



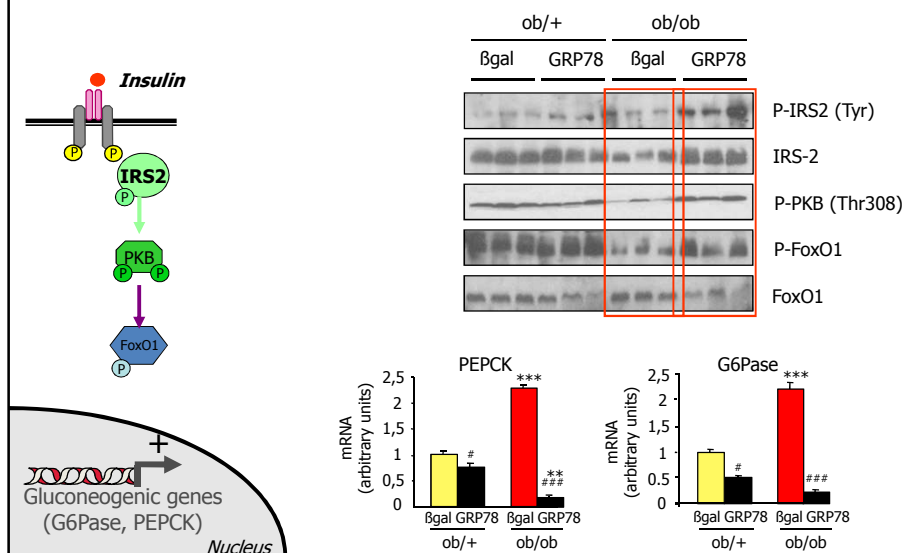
ER stress inhibition improves hepatic steatosis



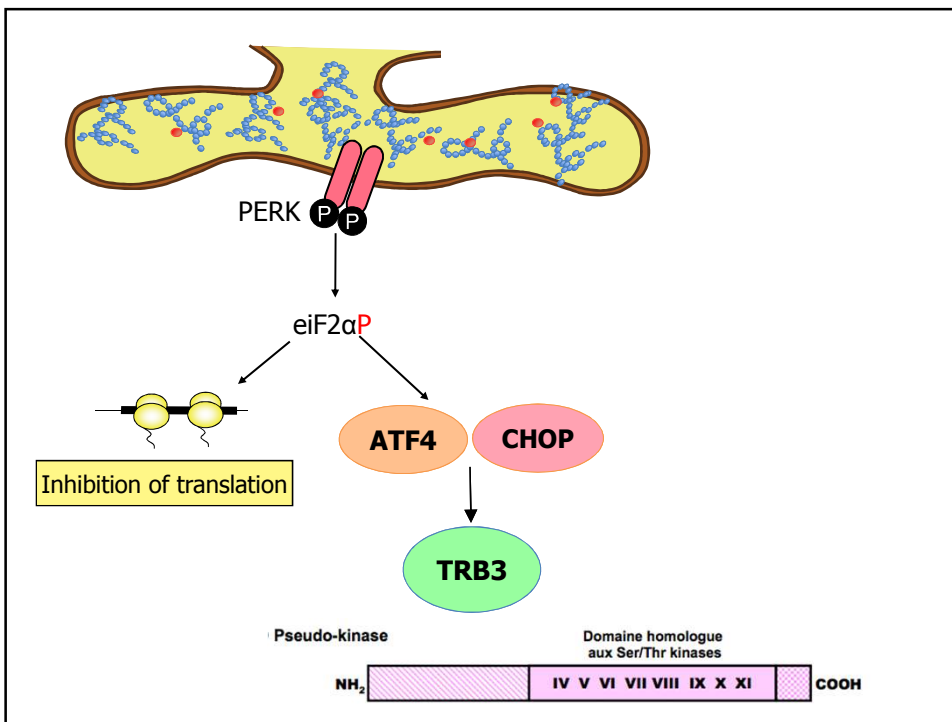
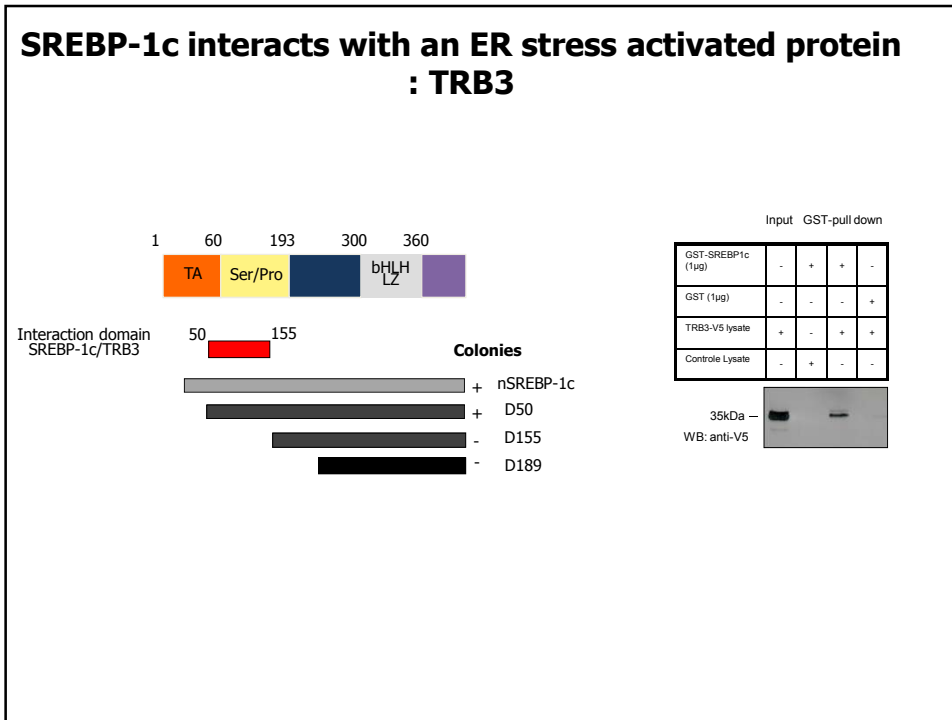
ER stress inhibition restores insulin sensibility in ob/ob mice

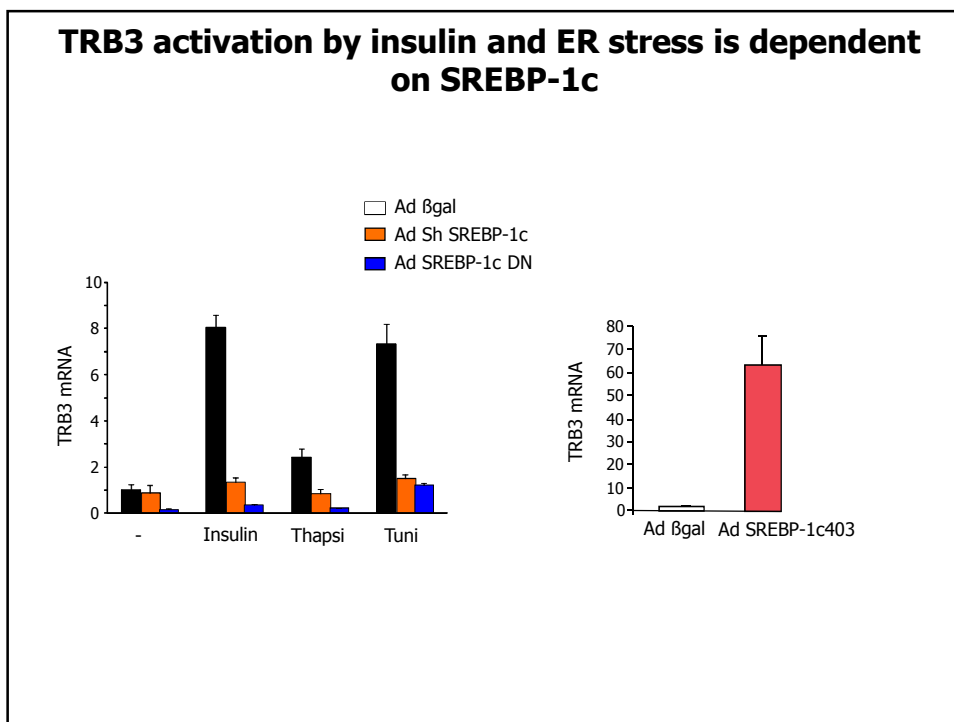
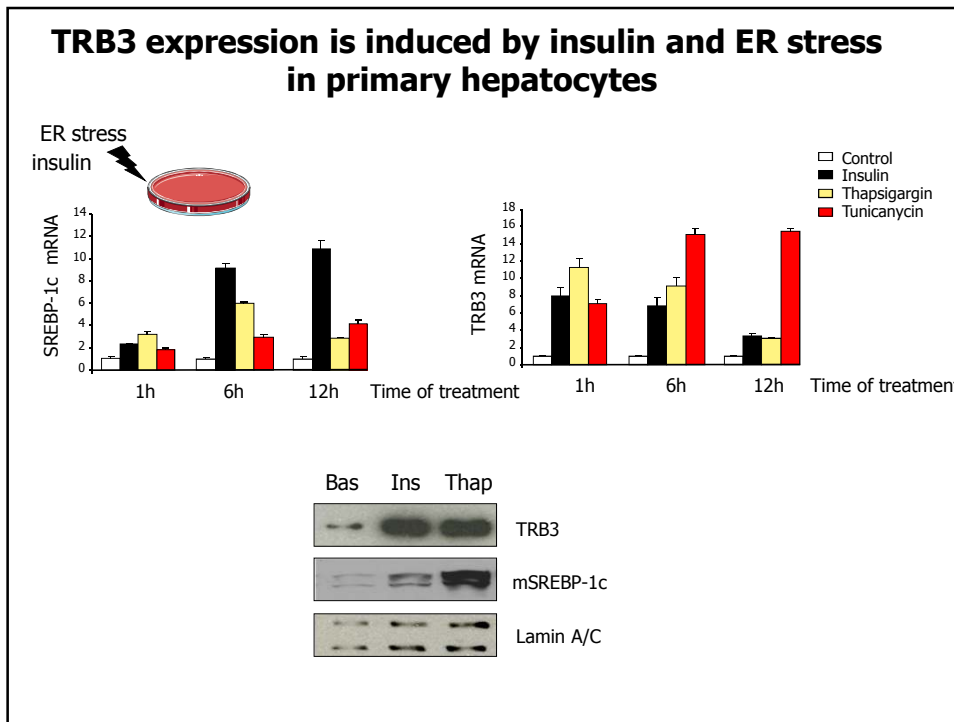


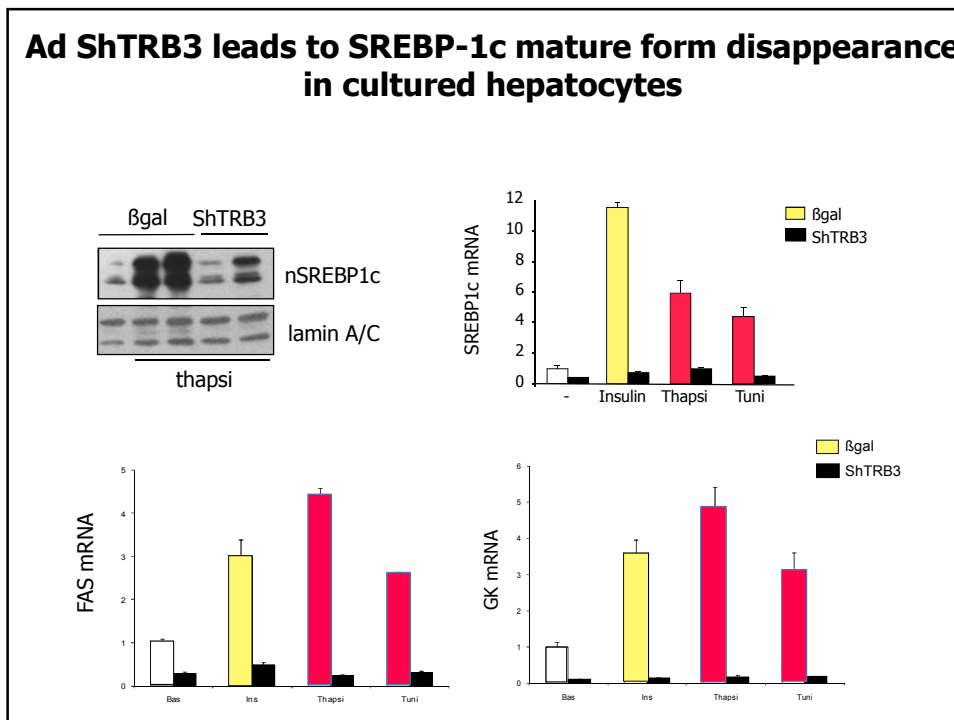
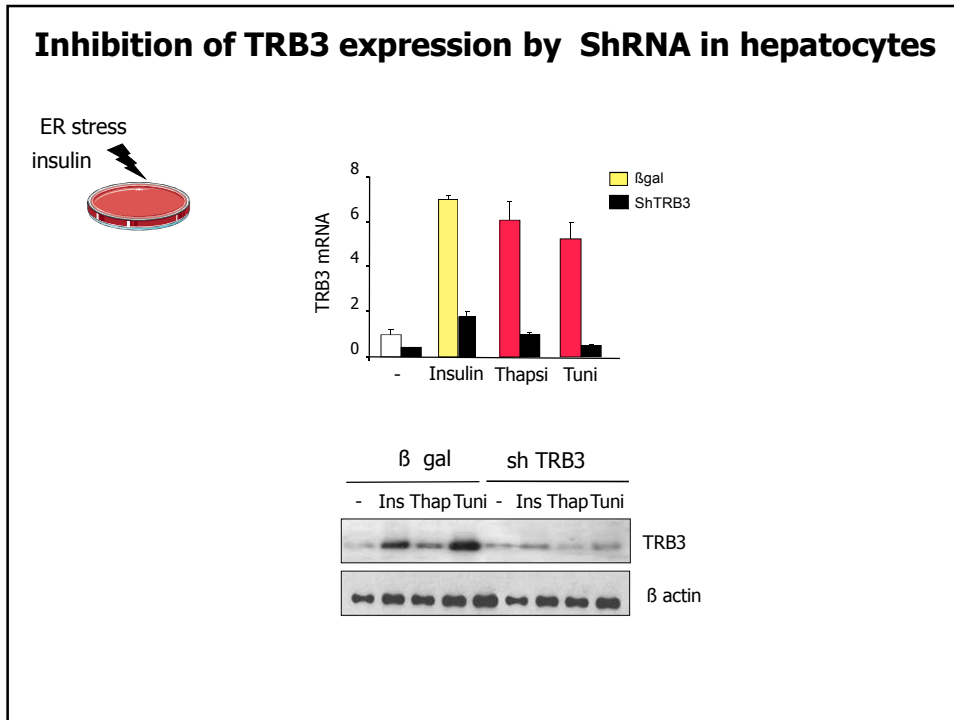
Effect of ER stress inhibition on insulin signalling in the liver of ob/ob mice



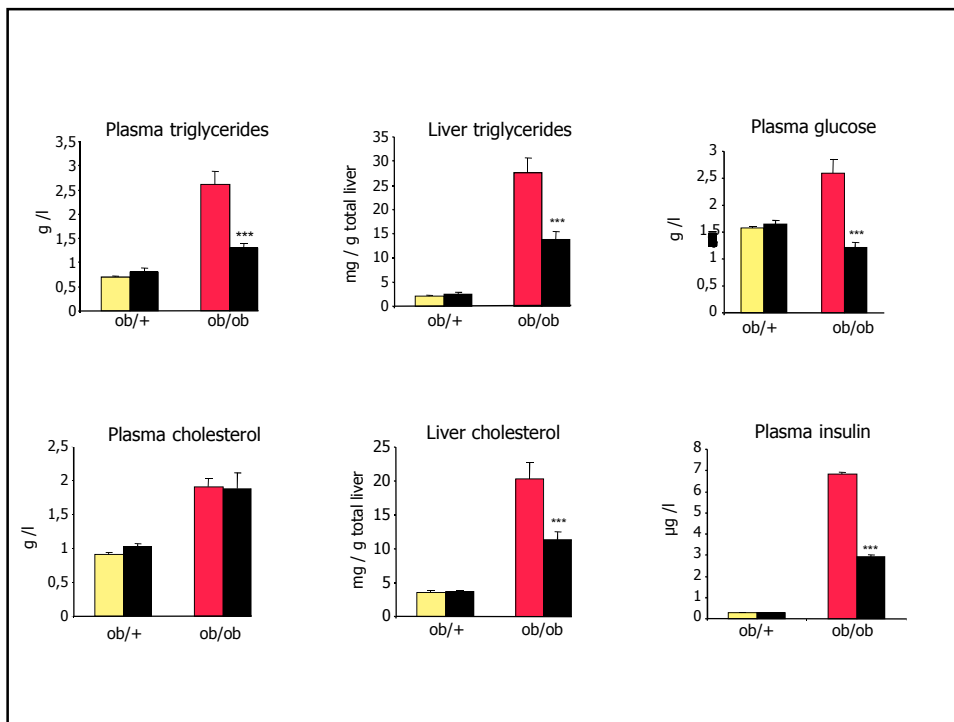
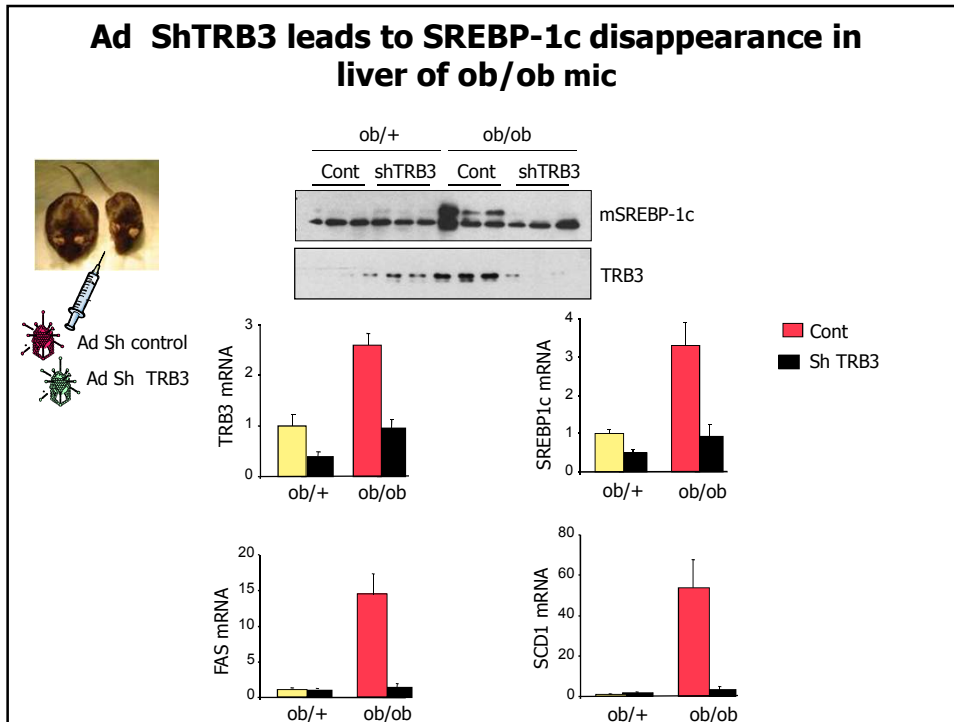
ER stress inhibition restores IRS2-mediated insulin signalling in the liver

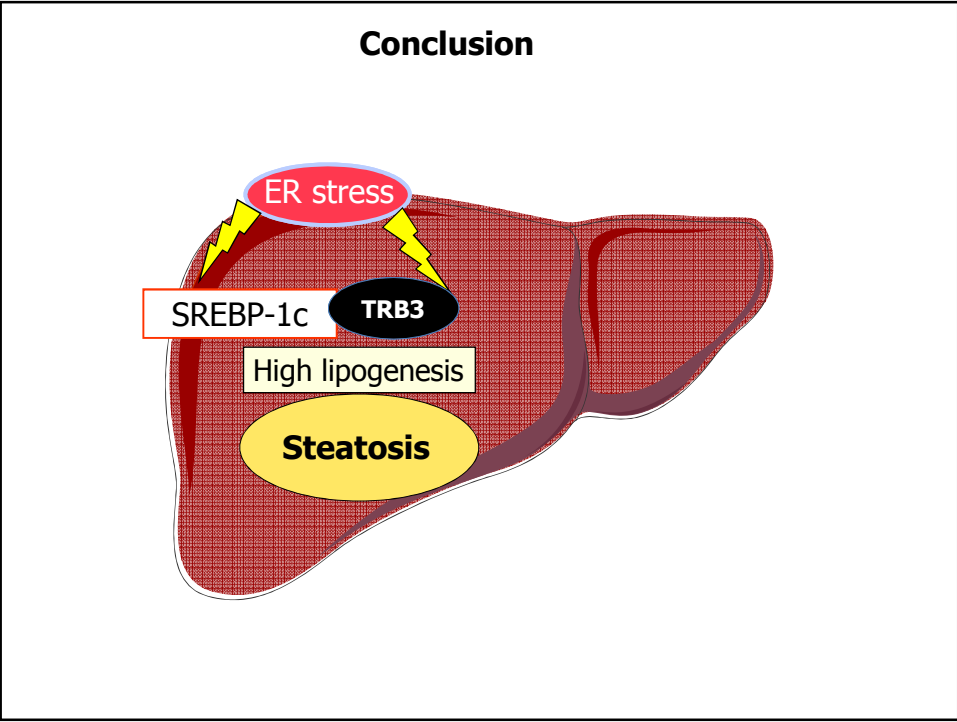
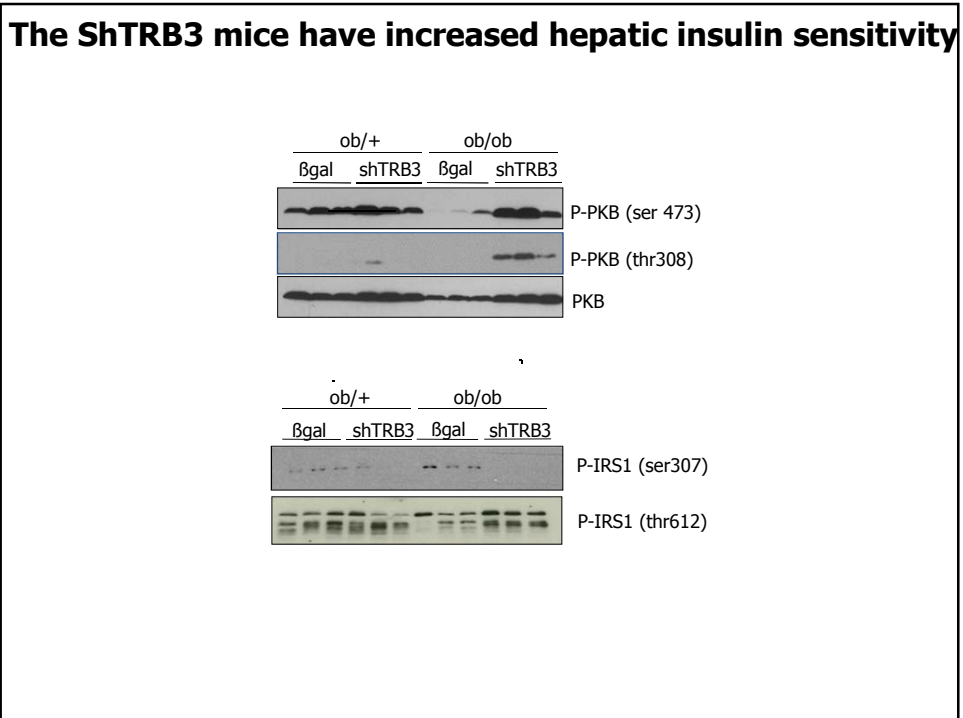






Ad ShTRB3 leads to SREBP-1c disappearance in liver of ob/ob mic







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