Supporting Information

Differential Regulation of Oxytocin Receptor in Various Adipose Tissue Depots and Skeletal Muscle Types in Obese Zucker Rats

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Fig. 1S Expression of oxytocin receptor in adipose tissue depots of diet-induced obese rats. Protein level of oxytocin receptor (OXTR) in total homogenates of epididymal (EWAT) and retroperitoneal (RWAT) white adipose tissue in adult male Wistar rats treated for 10 weeks with standard or high-fat (45% lard) diet evaluated by western blot. Densitometric quantification of signal corresponding to oxytocin receptor was normalized to total protein stains with coomassie blue brilliant. Representative blots are shown at the top (regional differences in adipose depots analysed in lean rats) and bottom (effect of obesity in single adipose depots) of the figure. In lean rats, level of OXTR in epididymal adipose tissue (upper blot) was set as 100% and its expression in other adipose depot represents a percentage change relative to epididymal. Effect of obesity is presented as a percentage change vs. lean control within the same depots since these were run on separate gels for each tissue (lower blots). Data are expressed as mean ± SEM. Differences between obese (n = 6) and lean (n = 6) rats were analyzed by two-way ANOVA and Bonferroni post-hoc test. *** p < 0.001.
**Fig. 2S** Expression of oxytocin receptor in response to ageing. Oxytocin receptor (OXTR) protein levels in total homogenates of epididymal adipose tissue (EWAT) and quadriceps muscle (MQ) of 3- and 8-month old lean Zucker rats. Densitometric quantification of signal corresponding to oxytocin receptor was normalized to total protein stains with coomassie blue brilliant. Representative blots are shown at the top of the figure. Data are presented as mean ± SEM. Differences between obese (n = 6) and lean (n = 6) rats were analyzed by Student’s t-test. * p < 0.05.