Discovery, 406,177 SNPs

700 most strongly obesity associated SNPs**

Extension study

Adults with morbid obesity or lifelong leanness (1)*

21 SNPs nominally associated with obesity

Extension study

Adults with morbid obesity or lifelong leanness (2)

2 SNPs nominally associated with obesity

KCNMA1 (rs2116830), BDNF (rs988712)

Extension study

Obese and lean adults (3)
Obese and population-based control children (4)

Morbid obese and population-based control adults (5)
Obese and lean children (6)

Meta-analysis

All case-control cohorts

Association to body mass index

KCNMA1 (rs2116830)

Expression studies (KCNMA1)

Three population based samples (5,7,8)