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Maternal fructose induces gender-dependent changes in both  $LXR\alpha$  promoter methylation and cholesterol metabolism in progeny

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## ACCEPTED MANUSCRIPT

Fructose epigenetics and cholesterol metabolism

## MATERNAL FRUCTOSE INDUCES GENDER-DEPENDENT CHANGES IN BOTH LXR $\alpha$ PROMOTER METHYLATION AND CHOLESTEROL METABOLISM IN PROGENY

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*Abbreviations*: RCT, Reverse cholesterol transport; LXRα, Liver X-receptor alpha; CpG islands, CGdinucleotide-rich regions in the gene promoter; HDL, High-density lipoproteins; PPAR, Peroxisome proliferator-activated receptor; SRB-1, Scavenger Receptor class B, member 1; ABC, ATP-binding cassette; CYP7A1, cholesterol 7-alpha hydroxylase; LDLR, LDL receptor; HMG-CoA reductase, 3-hydroxy-3-methylglutaryl-CoA reductase; SREBP, Sterol Response Element Binding Protein; Bsep, Bile salt export pump; NTCP, Na<sup>+</sup>-taurocholate cotransporter polypeptide; Shp, Small heterodimer partner; LRH1, Liver receptor homolog 1; Dnmt, DNA methyltransferase; ACC, Acetyl-CoA carboxylase; FAS, Fatty acid synthase; SCD1; Stearoyl-CoA desaturase.

*Key words*: Fructose; pregnancy; fetal programming; epigenetics; cholesterol.

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