Supplementary table 1. Full searches performed in PubMed and EMBASE.

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| --- | --- |
| **Full search string in PubMed** | **Full search string in EMBASE** |
| ((((((((pregnancy OR pregnant OR gestation OR gestational OR maternal))) AND ((weight gain OR adiposity OR body mass index OR BMI OR Obesity))) AND (("epigenomics"[MeSH Terms] OR epigenetic\* OR epigenom\* OR CpG OR cpg-oligonucleotides OR methylation OR miRNA OR "micrornas"[MeSH Terms] OR histone modification OR "histones"[MeSH Terms])) NOT (((Animal Experimentation[Mesh]) OR Animals[Mesh]) NOT Humans[Mesh]))) NOT ((rat OR rats OR dams OR mouse OR mice OR swine OR baboon)))) NOT (("prader-willi"[Title] OR "silver-russell"[Title] OR "Angelman"[Title] OR "Temple syndrome"[Title])) | ((pregnancy/ or first trimester pregnancy/ or second trimester pregnancy/ or third trimester pregnancy/ or mother/ or pregnant woman/ or (gestation\* or pregnan\* or matern\*).ti,kw.) AND (body weight/ or ideal body weight/ or lean body weight/ or weight change/ or weight gain/ or weight reduction/ or weight variation/ or obesity/ or body mass/ or (weight or overweight or bmi or body mass index or obes\* or adiposit\* or fat mass).ti,kw)) OR (gestational weight gain/ or maternal obesity/) AND (epigenetics/ or cpg island/ or methylation/ or dna methylation/ or exp microRNA/ or histone/ or histone modification/ or histone methylation/ or (epigen\* or cpg or methylation or miRNA).ti,kw.) NOT ((exp animal/ or nonhuman/) NOT exp human/). Removed 285 conference abstracts, editorials and letters. |
| Limit to English language | Limit to English language |