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| **Supporting Information**  **S1 Table. Search terms** | |
| **Epigenetics** | |
| 1 | (epigen\* ) |
| 2 | (EWAS) |
| 3 | (Methylation) |
| 4 | (DNA adj5 methyl\*) |
| 5 | (differential adj1 methylation) |
| 6 | (global adj1 methylation) |
| 7 | (DNA adj5 hypermethyl\*) |
| 8 | (DNA adj5 hypomethyl\*) |
| 9 | (gene\* adj5 methyl\*) |
| 10 | Gene Expression Regulation |
| 11 | (methyl\* adj5 region) |
| 12 | (histone adj1 modif\*) |
| 13 | 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 |
| **Body size/ growth** | |
| 14 | ((premature or pre-mature or preterm or pre-term) adj2 (birth or infant\* or child\* or neonat\*)) |
| 15 | (gestation\* adj2 age) |
| 16 | (weight or body-size or bmi or height or length or head-circumference) |
| 17 | ((grow\*) adj3 (fet\* or neonat\* or prenatal\* or pre-natal\* or intrauterine or in-utero or postnatal or post-natal or birth\* or infant\* or child\* or early-life or earlylife)) |
| 18 | (fet\* or neonat\* or prenatal\* or pre-natal\* or intrauterine or in-utero or postnatal or post-natal or birth\* or infant\* or child\* or early-life) |
| 19 | 16 OR 17 |
| 20 | 18 AND 19 |
| 21 | 14 OR 15 OR 20 |
| **Nutrition** | |
| 22 | (nutrition adj3 (maternal or mother\* or pregn\* or fet\* or neonat\* or prenatal\* or pre-natal\* or intrauterine or in-utero)) |
| 23 | ((nutrition or diet or wean\*) adj3 (postnatal or post-natal or infant\* or child\* or early-life)) |
| 24 | (breastfe\* or breast-fe\*) |
| 25 | (formula adj3 (infant\* or child\* or early-life)) |
| 26 | 22 OR 23 OR 24 OR 25 |
| **Socioeconomic position** | |
| 27 | ((occupation\* or education\*) adj3 (father\* or mother\* or parent\*)) |
| 28 | ((income or manual) adj3 (father\* or mother\* or parent\*)) |
| 29 | ((social class or social status) adj3 (father\* or mother\* or parent\* or child\* or early-life)) |
| 30 | ((socioeconomic or socio-economic) adj3 (father\* or mother\* or parent\* or child\* or early-life)) |
| 31 | ((deprivation or poverty) adj3 (child\* or early-life)) |
| 32 | ((overcrowding) adj3 (child\* or early-life)) |
| 33 | 27 OR 28 OR 29 OR 30 OR 31 OR 32 |
| **Combining results** | |
| 34 | 21 OR 26 OR 33 |
| 35 | 13 AND 33 |