|  |  |
| --- | --- |
| **Maternal and Infant Characteristics** | **Mean (SD)** |
| Gestational Weight Gain (kg) | 11.86 (4.22) |
| Gestational Age (weeks) | 39.33 (0.84) |
| Maternal Age (years) | 30.52 (3.46) |
| Birth Weight (kg) | 3.54 (0.43) |
| Birth Length (cm) | 51.28 (2.31) |
|  | **N (%)** |
| BMI Enrollment Category |  |
| Mother with healthy weight | 72 (49) |
| Mother with overweight or obesity | 75 (51) |
| Sex of Infant |  |
| Female | 60 (41) |
| Male | 87 (59) |
| Maternal Education |  |
| College Graduate | 55 (37) |
| Graduate Training or Degree | 43 (29) |
| High School Graduate, GED, Associate, Partial College, or Specialized Training | 49 (33) |
| Predicted Ancestry of Infant |  |
| Caucasian | 122(83) |
| Non-Caucasian | 25(17) |

**Table 1:** Demographic characteristics of the mother-infant dyads (N=147) featured in this study of the Glowing cohort.

A graph with a line drawn on it

AI-generated content may be incorrect.A graph of a graph showing the value of a logistic

AI-generated content may be incorrect.

B.

A.

Figure 1: QQ-Plots of expected and observed (p-values) from differential expression analyses conducted with GEMMA for (A) mRNA and (B) miRNA.

A.

**A graph with numbers and a number of lines

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**A graph with numbers and symbols

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B.

Figure 3: WGCNA identified modules per A. mRNAs and B. miRNAs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module** | **Estimate** | **Standard Error** | **p-value** | **q-value** |
| Blue | -0.04 | 0.01 | 0.01 | 0.01 |
| Brown | 0.01 | 0.01 | 0.70 | 0.70 |
| Green | 0.04 | 0.01 | 0.00 | 0.01 |
| Turquoise | 0.05 | 0.01 | 0.00 | 0.00 |
| Yellow | 0.03 | 0.01 | 0.07 | 0.08 |

**Table 2:** Modules from miRNA network summary statistics from the linear regression model, where BMI categories were the dependent variable.

A graph of a number of cells

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Figure 4: Top 20 enriched KEGG terms from the blue module based on mRNA targets.

A graph of a number of cells

AI-generated content may be incorrect.

Figure 5: Top 20 enriched KEGG terms from the green module based on mRNA targets.

A graph of a number of patients

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Figure 6: Top 20 enriched KEGG terms from the turquoise module based on mRNA targets.