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| **Supplemental Table 1.** Correlation between breast milk cytokines and neonatal gut microbiome alpha diversity measures. | | | |
|  | **Richness** | **Evenness** | **Phylogenetic Diversity** |
|  | **Spearman r (p-value)** | | |
| **IL-10** | | | |
| (Unadjusted) | 0.03 (0.821) | -0.05 (0.723) | -0.04 (0.800) |
| Maternal Education | 0.03 (0.815) | -0.05 (0.729) | -0.03 (0.815) |
| Household Income | 0.03 (0.811) | -0.05 (0.724) | -0.03 (0.824) |
| Married | -0.01 (0.935) | -0.09 (0.540) | -0.08 (0.565) |
| Urban Residence | 0.06 (0.654) | 0.02 (0.887) | -0.02 (0.913) |
| Maternal Race | 0.02 (0.879) | -0.07 (0.639) | -0.05 (0.751) |
| Maternal Atopy | 0.08 (0.595) | -0.09 (0.521) | 0.01 (0.941) |
| Prenatal Antibiotic Use | -0.01 (0.931) | -0.08 (0.592) | -0.09 (0.522) |
| Prenatal Antifungal Use | 0.01 (0.924) | -0.05 (0.722) | -0.06 (0.680) |
| Season of Birth | 0.02 (0.884) | -0.06 (0.687) | -0.05 (0.720) |
| Mode of Delivery | 0.03 (0.810) | -0.05 (0.718) | -0.04 (0.796) |
| Gender | 0.03 (0.812) | -0.05 (0.742) | -0.03 (0.812) |
| First Born Child | 0.03 (0.817) | -0.05 (0.702) | -0.03 (0.849) |
| Prenatal Household Smoke Exposure | 0.03 (0.813) | -0.05 (0.731) | -0.03 (0.818) |
| Prenatal Indoor Pets | 0.05 (0.734) | -0.05 (0.714) | -0.03 (0.857) |
| Exclusive Breastfeeding at 1-Month Interview | 0.01 (0.934) | -0.07 (0.604) | -0.06 (0.677) |
| Maternal Age at Birth | 0.00 (0.975) | -0.07 (0.629) | -0.06 (0.682) |
| Gestational Age | 0.05 (0.726) | -0.03 (0.812) | -0.02 (0.864) |
| Birthweight Z-Score | 0.04 (0.784) | -0.06 (0.701) | -0.02 (0.881) |
| Days Postpartum at Milk Collection | 0.12 (0.414) | 0.06 (0.657) | 0.03 (0.820) |
| **TGFβ1** | | | |
| (Unadjusted) | 0.22 (0.125) | **0.28 (0.042)\*** | 0.20 (0.158) |
| Maternal Education | 0.21 (0.148) | **0.28 (0.045)** | 0.18 (0.219) |
| Household Income | 0.21 (0.131) | **0.29 (0.041)** | 0.19 (0.174) |
| Married | 0.14 (0.326) | 0.23 (0.100) | 0.12 (0.388) |
| Urban Residence | 0.17 (0.246) | 0.17 (0.225) | 0.17 (0.244) |
| Maternal Race | 0.17 (0.245) | 0.21 (0.135) | 0.16 (0.265) |
| Maternal Atopy | 0.24 (0.095) | 0.27 (0.051) | 0.22 (0.114) |
| Prenatal Antibiotic Use | 0.19 (0.180) | 0.26 (0.069) | 0.16 (0.270) |
| Prenatal Antifungal Use | 0.16 (0.262) | 0.25 (0.086) | 0.15 (0.315) |
| Season of Birth | 0.21 (0.141) | **0.28 (0.047)** | 0.19 (0.179) |
| Mode of Delivery | 0.22 (0.124) | **0.28 (0.045)** | 0.20 (0.164) |
| Gender | 0.20 (0.163) | 0.24 (0.091) | 0.18 (0.213) |
| First Born Child | 0.22 (0.128) | **0.30 (0.033)** | 0.18 (0.207) |
| Prenatal Household Smoke Exposure | 0.20 (0.150) | **0.28 (0.047)** | 0.17 (0.230) |
| Prenatal Indoor Pets | 0.25 (0.081) | **0.28 (0.046)** | 0.22 (0.122) |
| Exclusive Breastfeeding at 1-Month Interview | 0.18 (0.198) | 0.25 (0.075) | 0.16 (0.252) |
| Maternal Age at Birth | 0.18 (0.195) | 0.27 (0.057) | 0.18 (0.217) |
| Gestational Age | 0.18 (0.212) | 0.25 (0.082) | 0.17 (0.236) |
| Birthweight Z-Score | 0.20 (0.184) | **0.29 (0.046)** | 0.18 (0.224) |
| Days Postpartum at Milk Collection | 0.20 (0.168) | 0.26 (0.065) | 0.18 (0.203) |
| **TGFβ2** | | | |
| (Unadjusted) | **0.35 (0.011)** | **0.36 (0.008)** | **0.33 (0.016)** |
| Maternal Education | **0.34 (0.014)** | **0.37 (0.008)** | **0.31 (0.026)** |
| Household Income | **0.35 (0.012)** | **0.37 (0.007)** | **0.33 (0.019)** |
| Married | **0.29 (0.039)** | **0.32 (0.021)** | 0.27 (0.053) |
| Urban Residence | **0.32 (0.022)** | **0.31 (0.025)** | **0.31 (0.025)** |
| Maternal Race | **0.33 (0.020)** | **0.33 (0.018)** | **0.31 (0.025)** |
| Maternal Atopy | **0.35 (0.011)** | **0.36 (0.009)** | **0.34 (0.016)** |
| Prenatal Antibiotic Use | **0.34 (0.018)** | **0.35 (0.013)** | **0.30 (0.036)** |
| Prenatal Antifungal Use | **0.31 (0.032)** | **0.34 (0.018)** | **0.28 (0.048)** |
| Season of Birth | **0.34 (0.015)** | **0.36 (0.009)** | **0.32 (0.022)** |
| Mode of Delivery | **0.35 (0.012)** | **0.36 (0.009)** | **0.33 (0.017)** |
| Gender | **0.34 (0.015)** | **0.35 (0.013)** | **0.32 (0.022)** |
| First Born Child | **0.35 (0.012)** | **0.38 (0.006)** | **0.32 (0.022)** |
| Prenatal Household Smoke Exposure | **0.34 (0.015)** | **0.36 (0.009)** | **0.30 (0.032)** |
| Prenatal Indoor Pets | **0.39 (0.004)** | **0.36 (0.009)** | **0.36 (0.009)** |
| Exclusive Breastfeeding at 1-Month Interview | **0.33 (0.017)** | **0.35 (0.012)** | **0.31 (0.025)** |
| Maternal Age at Birth | **0.32 (0.023)** | **0.35 (0.011)** | **0.31 (0.026)** |
| Gestational Age | **0.31 (0.026)** | **0.33 (0.020)** | **0.30 (0.031)** |
| Birthweight Z-Score | **0.31 (0.032)** | **0.34 (0.017)** | **0.31 (0.030)** |
| Days Postpartum at Milk Collection | **0.33 (0.018)** | **0.34 (0.014)** | **0.31 (0.025)** |
| *\*p<0.05 in bold* | | | |