

Description of Additional Supplementary Files

Supplementary Data 1

Description: Significant DE genes identified across first week of life in ontogeny model (combining GAM & PNG). DESeq2 was used to run a two-sided Wald statistic test with Benjamini-Hochberg multi-test correction.

Supplementary Data 2

Description: Enriched Reactome pathways derived from DE genes identified in ontogeny model (combining GAM & PNG). One-sided hypergeometric test was used with Bonferroni correction for multiple testing.

Supplementary Data 3

Description: Significant DE genes identified for Gambian neonates over the first week of life. DESeq2 was used to run a two-sided Wald statistic test with Benjamini-Hochberg multi-test correction.

Supplementary Data 4

Description: Significant DE genes identified for PNG neonates over the first week of life. DESeq2 was used to run a two-sided Wald statistic test with Benjamini-Hochberg multi-test correction.

Supplementary Data 5

Description: Enriched Reactome pathways derived from DE genes for Gambian neonates. One-sided hypergeometric test was used with Bonferroni correction for multiple testing.

Supplementary Data 6

Description: Enriched Reactome pathways derived from DE genes for PNG neonates. One-sided hypergeometric test was used with Bonferroni correction for multiple testing.

Supplementary Data 7

Description: DE genes identified when directly comparing populations at each sampled day of life (without indexing). DESeq2 was used to run a two-sided Wald statistic test with Benjamini-Hochberg multi-test correction.

Supplementary Data 8

Description: Significant Reactome pathways for DE genes derived from directly comparing populations across the first week of life (without indexing). One-sided hypergeometric test was used with Bonferroni correction for multiple testing.

Supplementary Data 9

Description: Significant results of two-sided Wilcox rank-sum test (Benjamini-Hochberg correction for multiple comparisons) comparing cell types on flow cytometry myeloid panel between GAM & PNG at each DOL.

Supplementary Data 10

Description: Significant DE genes identified in males over the first week of life. DESeq2 was used to run a two-sided Wald statistic test with Benjamini-Hochberg multi-test correction.

Supplementary Data 11

Description: Significant DE genes identified in females over the first week of life. DESeq2 was used to run a two-sided Wald statistic test with Benjamini-Hochberg multi-test correction.