| Blood VIPs                              | VIP score | FDR     | FC   |
|----------------------------------------|-----------|---------|------|
| 1-Aminocyclopropanecarboxylate          | 1.003     | -       | 0.88 |
| 3-Dehydroshikimate                      | 1.263     | -       | 1.45 |
| 3-Hydroxybutyrate                       | 1.180     | -       | 1.68 |
| 3-methyl-2-oxindole                     | 1.843     | <0.0001 | 0.29 |
| 3-Methylhistidine                       | 1.887     | <0.0001 | 1.78 |
| 4-Hydroxyproline                        | 1.029     | -       | 1.09 |
| 5-Aminolevulinate                       | 1.029     | 0.0302  | 1.09 |
| 5-Aminopentanoate                       | 1.112     | 0.0094  | 1.10 |
| Adipate                                 | 1.297     | 0.0003  | 0.81 |
| Anserine                                | 1.471     | 0.0414  | 0.60 |
| Azelate                                 | 1.476     | -       | 1.50 |
| Benzyl alcohol                          | 1.724     | -       | 0.18 |
| Beta-Alanine                            | 1.245     | 0.0178  | 1.16 |
| Betaine                                 | 1.112     | <0.0001 | 1.10 |
| Citrulline                              | 1.064     | -       | 1.20 |
| Creatine                                | 1.377     | -       | 1.26 |
| Creatirine                              | 1.846     | 0.0321  | 0.71 |
| Cytosine                                | 1.008     | 0.0092  | 0.90 |
| Deoxyuridine                            | 1.013     | 0.0219  | 0.65 |
| Diaminopimelate                         | 1.286     | -       | 0.72 |
| Dihydouracil                            | 1.481     | <0.0001 | 0.56 |
| Formyl-L-Methionyl                      | 1.341     | -       | 1.34 |
| Galactarate                             | 1.141     | -       | 1.55 |
| GABA                                    | 1.895     | -       | 0.55 |
| Glucarate                               | 1.141     | -       | 1.55 |
| Gluconate                               | 1.157     | 0.0185  | 1.24 |
| Glycine                                 | 1.035     | -       | 1.14 |
| Hippurate                               | 1.162     | -       | 1.35 |
| Hydroxyphenyllactate                    | 1.368     | 0.0185  | 1.46 |
| Indoleacetaldehyde                      | 1.565     | 0.0034  | 1.56 |
| Indoleacetate                           | 1.502     | 0.0076  | 2.14 |
| Inosine                                 | 1.203     | -       | 1.95 |
| Alanine                                 | 1.245     | 0.0414  | 1.16 |
| Asparagine                              | 1.352     | 0.0209  | 0.79 |
| Glutamine                               | 1.347     | 0.0214  | 0.89 |
| Kynurenine                              | 1.878     | <0.0001 | 0.34 |
| Lactate                                 | 1.117     | -       | 0.83 |
| Lysine                                  | 1.675     | 0.0006  | 0.71 |
| Phenylalanine                           | 1.637     | 0.0012  | 0.75 |
| Pipecolate                              | 1.725     | 0.0003  | 0.61 |
| Threonine                               | 1.463     | 0.0097  | 0.88 |
| Tryptophan                              | 1.415     | 0.0139  | 0.78 |
| Valine                                  | 1.112     | -       | 1.10 |
| Malonate                                | 1.709     | 0.0004  | 0.47 |
| Methyl indole-3-acetate                 | 1.378     | 0.0178  | 0.72 |
| N-Acetylneuraminic                      | 1.447     | 0.0112  | 1.48 |
| N-Acetylserotonin                       | 1.924     | <0.0001 | 0.18 |
| Compound                  | Ratio | p-Value | Fold Change |
|--------------------------|-------|---------|-------------|
| N-Methyltryptamine       | 1.814 | <0.0001 | 0.22        |
| N6-Δ2-Isopentenyl-adenine| 1.418 | 0.0139  | 1.52        |
| Nicotinate               | 1.068 | -       | 1.26        |
| NNN-Trimethyl-lysine     | 1.877 | <0.0001 | 0.64        |
| Norvaline                | 1.112 | -       | 1.10        |
| Pantotherate              | 1.404 | 0.0151  | 0.79        |
| Paraxanthine             | 1.218 | 0.0483  | 1.38        |
| Phosphorylcholine        | 1.298 | 0.0302  | 0.60        |
| Pyridoxamine             | 1.678 | 0.0006  | 0.70        |
| Serotonin                | 1.127 | -       | 1.30        |
| Spermidine               | 1.437 | 0.0120  | 0.68        |
| Sphinganine              | 1.053 | -       | 2.27        |
| Succinate                | 1.213 | 0.0487  | 0.82        |
| Theobromine              | 1.182 | -       | 1.37        |
| Theophylline             | 1.218 | 0.0483  | 1.38        |
| Thymine                  | 1.386 | 0.0174  | 0.82        |
| Trans-Ferulate           | 1.025 | -       | 1.36        |
| Trigonelline             | 1.596 | 0.0023  | 0.66        |
| Uracl                    | 1.150 | -       | 0.67        |
| Xanthine                 | 1.197 | -       | 2.10        |