Supplementary Table 1: Statistically significant differences in the abundance of genus-like bacteria when comparing Ghanaian Non-responders with Dutch infants (FDR <0.1)

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| **Phylum/Class** | **Genus-like groups** | **FDR** |
| Actinobacteria | Eggerthella.lenta.et.rel. | 0.025 |
| Bacilli | Staphylococcus | <0.001 |
| Bacilli | Streptococcus.bovis.et.rel. | 0.002 |
| Bacilli | AerotolerantCocci | 0.002 |
| Bacilli | Streptococcus.mitis.et.rel. | 0.003 |
| Bacilli | Streptococcus.intermedius.et.rel. | 0.021 |
| Bacteroidetes | Prevotella.oralis.et.rel. | 0.002 |
| Bacteroidetes | Prevotella.melaninogenica.et.rel. | 0.003 |
| Bacteroidetes | Bacteroides.ovatus.et.rel. | 0.021 |
| Bacteroidetes | Parabacteroides.distasonis.et.rel. | 0.040 |
| Bacteroidetes | Bacteroides.plebeius.et.rel. | 0.040 |
| Bacteroidetes | Uncultured.Bacteroidetes | 0.046 |
| Bacteroidetes | Allistipes.et.rel. | 0.060 |
| Bacteroidetes | Tannerella.et.rel. | 0.060 |
| Bacteroidetes | Bacteroides.intestinalis.et.rel. | 0.064 |
| Bacteroidetes | Bacteroides.uniformis.et.rel. | 0.068 |
| Bacteroidetes | Bacteroides.fragilis.et.rel. | 0.079 |
| Clostridium cluster IX | Mitsuokella.multiacida.et.rel. | 0.068 |
| Clostridium cluster XI | Peptostreptococcus.anaerobius.et.rel. | 0.025 |
| Clostridium cluster XIV | Ruminococcus.gnavus.et.rel. | 0.011 |
| Clostridium cluster XIVa | Eubacterium.hallii.et.rel. | 0.002 |
| Clostridium cluster XIVa | Coprococcus.eutactus.et.rel. | 0.011 |
| Clostridium cluster XIVa | Ruminococcus.obeum.et.rel. | 0.013 |
| Clostridium cluster XIVa | Enterobacteria | 0.040 |
| Clostridium cluster XIVa | Clostridium.symbiosum.et.rel. | 0.042 |
| Clostridium cluster XIVa | Dorea.formicigenerans.et.rel. | 0.042 |
| Proteobacteria | Alcaligenes.faecalis.et.rel. | 0.011 |
| Proteobacteria | Campylobacter | 0.042 |
| Proteobacteria | Enterobacter.aerogenes.et.rel. | 0.060 |