**S4 Table. Differential ESV abundance of saliva microbiome by each CM risk including waist circumference, blood pressure, blood fasting glucose, triglyceride and HDL concentration in USA, RSA, Ghanaian and Jamaican population (****adjusted for country, age, BMI and gender across the entire cohort).** USA, the United States of America; RSA, South Africa. ESV, Exact Sequence Variant. Data shown are mean± S.E.M.

|  |  |  |  |
| --- | --- | --- | --- |
| **Country** | **Taxonomy of Significantly differential ESVs** | **Average relative abundance \***  **(% (SE))** | |
| **Group waist** | | **High waist** | **Low waist** |
| **All** | p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 2.94 (0.35) | 1.60 (0.15) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 1.50 (0.18) | 0.86 (0.09) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 3.06 (0.19) | 2.08 (0.14) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.35 (0.04) | 0.64 (0.05) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.30 (0.04) | 0.19 (0.03) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.13 (0.02) | 0.24 (0.03) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.56 (0.04) | 0.44 (0.04) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_[Tissierellaceae]; g\_\_Parvimonas | 0.13 (0.02) | 0.19 (0.02) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.42 (0.07) | 0.20 (0.04) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Leptotrichiaceae; g\_\_ | 0.55 (0.10) | 0.53 (0.06) |
| p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.17 (0.02) | 0.11 (0.01) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 1.02 (0.13) | 1.23 (0.10) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae; g\_\_ | 0.06 (0.01) | 0.03 (0.004) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.14 (0.01) | 0.21 (0.02) |
| p\_\_Proteobacteria; c\_\_Epsilonproteobacteria; o\_\_Campylobacterales; f\_\_Campylobacteraceae; g\_\_Campylobacter | 0.23 (0.01) | 0.20 (0.01) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Porphyromonadaceae; g\_\_Porphyromonas | 0.47 (0.07) | 0.67 (0.07) |
| p\_\_SR1; c\_\_; o\_\_; f\_\_; g\_\_ | 0.06 (0.01) | 0.11 (0.01) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Actinomycetaceae; g\_\_Actinomyces | 0.12 (0.01) | 0.09 (0.01) |
| p\_\_Proteobacteria; c\_\_Epsilonproteobacteria; o\_\_Campylobacterales; f\_\_Campylobacteraceae; g\_\_Campylobacter | 0.07 (0.01) | 0.14 (0.02) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Peptostreptococcaceae; g\_\_Filifactor | 0.19 (0.02) | 0.26 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.43 (0.05) | 0.34 (0.04) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Fusobacteriaceae; g\_\_Fusobacterium | 0.56 (0.07) | 0.33 (0.03) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Fusobacteriaceae; g\_\_Fusobacterium | 0.27 (0.02) | 0.39 (0.03) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.24 (0.04) | 0.34 (0.03) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Actinomycetaceae; g\_\_Actinomyces | 0.17 (0.01) | 0.25 (0.01) |
| p\_\_Tenericutes; c\_\_Mollicutes; o\_\_Acholeplasmatales; f\_\_Acholeplasmataceae; g\_\_Acholeplasma | 0.07 (0.02) | 0.12 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.30 (0.04) | 0.17 (0.02) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Peptostreptococcaceae; g\_\_Peptostreptococcus | 0.26 (0.02) | 0.37 (0.02) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae; g\_\_Moryella | 0.08 (0.01) | 0.12 (0.01) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Porphyromonadaceae; g\_\_Porphyromonas | 0.71 (0.08) | 0.91 (0.07) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.83 (0.08) | 1.03 (0.07) |
| **All\_Male** | p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.20 (0.03) | 0.16 (0.03) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 2.95 (0.69) | 1.62 (0.24) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 3.16 (0.31) | 2.32 (0.24) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.21 (0.06) | 0.27 (0.08) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 2.13 (0.27) | 2.66 (0.29) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Leptotrichiaceae; g\_\_ | 0.74 (0.23) | 0.43 (0.09) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 1.42 (0.23) | 1.02 (0.16) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.20 (0.03) | 0.13 (0.02) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_[Tissierellaceae]; g\_\_Parvimonas | 0.09 (0.02) | 0.19 (0.02) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 1.09 (0.18) | 1.17 (0.12) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.09 (0.02) | 0.25 (0.05) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Leptotrichiaceae; g\_\_Leptotrichia | 0.10 (0.03) | 0.07 (0.03) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.25 (0.06) | 0.55 (0.12) |
| p\_\_Spirochaetes; c\_\_Spirochaetes; o\_\_Spirochaetales; f\_\_Spirochaetaceae; g\_\_Treponema | 0.05 (0.01) | 0.05 (0.02) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Lactobacillaceae; g\_\_Lactobacillus | 0.21 (0.09) | 0.19 (0.10) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Lactobacillaceae; g\_\_Lactobacillus | 0.05 (0.02) | 0.04 (0.02) |
| p\_\_SR1; c\_\_; o\_\_; f\_\_; g\_\_ | 0.06 (0.02) | 0.11 (0.02) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae; g\_\_ | 0.06 (0.01) | 0.04 (0.01) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.16 (0.04) | 0.20 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.82 (0.13) | 1.13 (0.15) |
| **All\_Female** | p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 1.54 (0.26) | 0.75 (0.10) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.90 (0.10) | 1.16 (0.10) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.37 (0.05) | 0.60 (0.05) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 3.00 (0.24) | 1.92 (0.16) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.47 (0.09) | 0.19 (0.06) |
| p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.16 (0.02) | 0.08 (0.01) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Leptotrichiaceae; g\_\_ | 0.45 (0.10) | 0.60 (0.07) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.32 (0.06) | 0.17 (0.04) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 2.93 (0.38) | 1.58 (0.19) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Actinomycetaceae; g\_\_Actinomyces | 0.18 (0.02) | 0.25 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.24 (0.05) | 0.35 (0.04) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.15 (0.03) | 0.24 (0.03) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_[Tissierellaceae]; g\_\_Parvimonas | 0.15 (0.03) | 0.19 (0.02) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Fusobacteriaceae; g\_\_Fusobacterium | 0.64 (0.11) | 0.32 (0.04) |
| p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.08 (0.02) | 0.09 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.52 (0.05) | 0.40 (0.04) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.15 (0.02) | 0.20 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.37 (0.05) | 0.29 (0.04) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Peptostreptococcaceae; g\_\_Peptostreptococcus | 0.30 (0.03) | 0.40 (0.03) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae; g\_\_Moryella | 0.09 (0.01) | 0.12 (0.01) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 1.13 (0.19) | 1.30 (0.13) |
| **USA** | p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 1.74 (0.24) | 1.04 (0.37) |
| p\_\_Proteobacteria; c\_\_Gammaproteobacteria; o\_\_Pasteurellales; f\_\_Pasteurellaceae; g\_\_Haemophilus | 7.40 (0.56) | 4.68 (0.64) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 7.36 (0.66) | 4.66 (0.72) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Porphyromonadaceae; g\_\_Porphyromonas | 0.89 (0.16) | 1.70 (0.27) |
| **RSA** | p\_\_Proteobacteria; c\_\_Epsilonproteobacteria; o\_\_Campylobacterales; f\_\_Campylobacteraceae; g\_\_Campylobacter | 0.07 (0.02) | 0.17 (0.03) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Actinomycetaceae; g\_\_Actinomyces | 0.11 (0.02) | 0.21 (0.02) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 3.28 (0.60) | 1.692 (0.29) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Actinomycetaceae; g\_\_Actinomyces | 0.18 (0.02) | 0.12 (0.02) |
| **Ghana** | p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 2.40 (0.65) | 0.86 (0.14) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.09 (0.03) | 0.20 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.26 (0.07) | 0.22 (0.05) |
| **Group glucose** | | **Elevated fasting plasma glucose** | **Non- elevated fasting plasma glucose** |
| **All** | p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.17 (0.04) | 0.37 (0.05) |
| **All\_Male** | p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 0.05 (0.01) | 0.05 (0.01) |
| p\_\_Firmicutes; c\_\_Bacillio\_\_Lactobacillales; f\_\_Carnobacteriaceae; g\_\_Granulicatella | 0.57 (0.10) | 0.83 (0.09) |
| **All\_Female** | p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.10 (0.02) | 0.08 (0.01) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.16 (0.04) | 0.39 (0.08) |
| **USA** | p\_\_Proteobacteria; c\_\_Gammaproteobacteria; o\_\_Pasteurellales; f\_\_Pasteurellaceae; g\_\_Haemophilus | 5.07 (0.56) | 7.47 (0.63) |
| **Group blood pressure** | | **Elevated blood pressure** | **Non- Elevated blood pressure** |
| **All** | p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.22 (0.03) | 0.11 (0.01) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.56 (0.10) | 1.05 (0.06) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 3.52 (0.29) | 2.20 (0.12) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.13 (0.02) | 0.30 (0.03) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 1.46 (0.20) | 1.03 (0.10) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Burkholderiales; f\_\_Burkholderiaceae; g\_\_Lautropia | 0.16 (0.02) | 0.47 (0.05) |
| p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.04 (0.01) | 0.09 (0.01) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Fusobacteriaceae; g\_\_Fusobacterium | 0.13 (0.02) | 0.07 (0.01) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Corynebacteriaceae; g\_\_Corynebacterium | 0.03 (0.004) | 0.07 (0.005) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 1.80 (0.23) | 2.49 (0.14) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_ | 0.01 (0.01) | 0.07 (0.01) |
| p\_\_Proteobacteria; c\_\_Gammaproteobacteria; o\_\_Pasteurellales; f\_\_Pasteurellaceae | 0.27 (0.04) | 0.50 (0.05) |
| **All\_Male** | p\_\_Proteobacteria; c\_\_Gammaproteobacteria; o\_\_Pasteurellales; f\_\_Pasteurellaceae | 0.25 (0.06) | 0.45 (0.08) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 3.61 (0.44) | 2.33 (0.20) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 2.05 (0.43) | 2.58 (0.23) |
| p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.26 (0.05) | 0.15 (0.02) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.34 (0.09) | 0.92 (0.10) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Burkholderiales; f\_\_Burkholderiaceae; g\_\_Lautropia | 0.19 (0.05) | 0.48 (0.11) |
| **All\_Female** | p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.19 (0.04) | 0.09 (0.01) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.74 (0.16) | 1.12 (0.08) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 1.52 (0.30) | 0.99 (0.14) |
| p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.16 (0.03) | 0.28 (0.04) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.14 (0.03) | 0.17 (0.02) |
| **RSA** | p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Fusobacteriaceae; g\_\_Fusobacterium | 0.15 (0.03) | 0.05 (0.01) |
| **Ghana** | p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 0.19 (0.08) | 0.04 (0.01) |
| **Group HDL** | | **Low HDL** | **High HDL** |
| **All** | p\_\_Actinobacteria; c\_\_Coriobacteriia; o\_\_Coriobacteriales; f\_\_Coriobacteriaceae; g\_\_Atopobium | 0.09 (0.01) | 0.05 (0.01) |
| p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae | 0.12 (0.01) | 0.09 (0.01) |
| **All\_Male** | p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 1.19 (0.22) | 1.13 (0.18) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 2.55 (0.33) | 2.42 (0.30) |
| **RSA** | p\_\_Actinobacteria; c\_\_Actinobacteria; o\_\_Actinomycetales; f\_\_Micrococcaceae; g\_\_Rothia | 0.23 (0.04) | 0.14 (0.03) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 0.67 (0.11) | 0.35 (0.06) |
| **Group triglyceride** | | **Hyper-triglyceridemia** | **Non-hyper-triglyceridemia** |
| **All** | p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 0.58 (0.14) | 0.66 (0.04) |
| **All\_Female** | p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Veillonellaceae; g\_\_Veillonella | 3.21 (0.55) | 2.32 (0.17) |
| p\_\_Firmicutes; c\_\_Bacilli; o\_\_Lactobacillales; f\_\_Streptococcaceae; g\_\_Streptococcus | 0.63 (0.19) | 0.70 (0.06) |
| p\_\_Fusobacteria; c\_\_Fusobacteriia; o\_\_Fusobacteriales; f\_\_Fusobacteriaceae; g\_\_Fusobacterium | 0.48 (0.11) | 0.64 (0.04) |
| p\_\_Proteobacteria; c\_\_Betaproteobacteria; o\_\_Neisseriales; f\_\_Neisseriaceae; g\_\_Neisseria | 0.76 (0.13) | 1.43 (0.11) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_[Paraprevotellaceae]; g\_\_[Prevotella] | 0.14 (0.04) | 0.18 (0.02) |
| p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Prevotellaceae; g\_\_Prevotella | 0.35 (0.12) | 0.23 (0.04) |
| **Ghana** | p\_\_Proteobacteria; c\_\_Gammaproteobacteria; o\_\_Pasteurellales; f\_\_Pasteurellaceae | 0.98 (0.13) | 0.65 (0.07) |

\*Number in red, ESVs were significantly enriched in patients with one of the CM risk factors.