**Supplemental Digital Content 2.** Significant associations between the patient’s age in years and the relative abundance of bacterial taxa.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Taxon | Age-estimate | p-value | Model | FDR-p-value |
| Actinobacteria\_Actinobacteria\_Actinomycetales\_Actinomycetaceae\_Actinomyces | -0,044 | 0,033 | MASS::glm.nb | 0,277 |
| Actinobacteria\_Actinobacteria\_Micrococcales\_Micrococcaceae\_Rothia | 0,110 | 0,011 | MASS::glm.nb | 0,147 |
| Actinobacteria\_Coriobacteriia\_Coriobacteriales\_Coriobacteriaceae\_Asaccharobacter | 0,152 | 0,004 | MASS::glm.nb | 0,102 |
| Actinobacteria\_Coriobacteriia\_Coriobacteriales\_Coriobacteriaceae\_Collinsella | 0,095 | 0,004 | MASS::glm.nb | 0,099 |
| Firmicutes\_Clostridia\_Clostridiales\_Christensenellaceae\_Christensenella | -0,122 | 0,001 | MASS::glm.nb | 0,036 |
| Firmicutes\_Clostridia\_Clostridiales\_Clostridiaceae\_Clostridium | -0,070 | 0,026 | MASS::glm.nb | 0,260 |
| Firmicutes\_Clostridia\_Clostridiales\_Peptostreptococcaceae\_IncertaeSedis | -0,067 | 0,011 | MASS::glm.nb | 0,147 |
| Actinobacteria\_Actinobacteria\_Actinomycetales\_Actinomycetaceae | -0,044 | 0,033 | MASS::glm.nb | 0,277 |
| Actinobacteria\_Actinobacteria\_Micrococcales\_Micrococcaceae | 0,110 | 0,011 | MASS::glm.nb | 0,147 |
| Firmicutes\_Clostridia\_Clostridiales\_Clostridiaceae | -0,070 | 0,026 | MASS::glm.nb | 0,260 |
| Firmicutes\_Clostridia\_Clostridiales\_Peptostreptococcaceae | -0,067 | 0,011 | MASS::glm.nb | 0,147 |
| Actinobacteria\_Actinobacteria\_Actinomycetales | -0,044 | 0,033 | MASS::glm.nb | 0,277 |
| Actinobacteria\_Actinobacteria\_Micrococcales | 0,110 | 0,011 | MASS::glm.nb | 0,147 |
| Firmicutes\_Bacilli\_Bacillales | -0,116 | 0,015 | MASS::glm.nb | 0,171 |