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| **Frequency (%) ± SE** | | | | |
| **Taxon-genus** | ***E. viminalis*  2013** | ***E. obliqua* 2013** | ***E. viminalis*  2015** | ***E. obliqua*  2015** |
| p\_Bacteroidetes;c\_Bacteroidia;o\_Bacteroidales;f\_Porphyromonadaceae;g\_*Parabacteroides* | 52 ± 0 a | 5 ± 0c | 22 ± 0b | 19 ± 04b |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Ruminococcaceae;g\_ | 14 ± 0c | 45 ± 0a | 12 ± 0c | 31 ± 04b |
| p\_Bacteroidetes;c\_Bacteroidia;o\_Bacteroidales;f\_Bacteroidaceae;g\_*Bacteroides* | 7 ± 02b | 14 ± 0ab | 25 ± 0b | 7 ± 0b |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Ruminococcaceae;g\_*Ruminococcus* | 13 ± 0a | 2 ± 0b | 9 ± 0a | 3 ± 0b |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Lachnospiraceae;g\_ | 3 ± 0b | 11 ± 0a | 4 ± 0b | 8 ± 0a |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_;g\_ | 1 ± 0b | 7 ± 0ab | 2 ± 0b | 11 ± 0a |
| p\_Cyanobacteria;c\_4C0d-2;o\_YS2;f\_;g\_ | 1 ± 0b | 6 ± 0ab | 16 ± 0a | 8 ± 0ab |
| p\_Verrucomicrobia;c\_Verrucomicrobiae;o\_Verrucomicrobiales;f\_Verrucomicrobiaceae;g\_*Akkermansia* | 2 ± 0a | 0.00004 ± 0.00002a | 1 ± 0a | 1 ± 0a |
| p\_Bacteroidetes;c\_Bacteroidia;o\_Bacteroidales;f\_Rikenellaceae;g\_ | 1 ± 0ab | 3 ± 0a | 1 ± 0ab | 1 ± 0b |
| Unassigned;Other;Other;Other;Other;Other | 1 ± 0b | 1 ± 0a | 0.003 ± 0.001c | 0.003 ± 0.001c |
| p\_Firmicutes;c\_Erysipelotrichi;o\_Erysipelotrichales;f\_Erysipelotrichaceae;g\_*Coprobacillus* | 1 ± 0ab | 2 ± 0a | 0.001 ± 0.0002b | 0.002 ± 0.0003b |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Ruminococcaceae;g\_*Oscillospira* | 0.003 ± 0.001ab | 1 ± 01a | 1 ± 0b | 0.001 ± 0.0003b |
| p\_Proteobacteria;c\_Gammaproteobacteria;o\_Enterobacteriales;f\_Enterobacteriaceae;g\_ | 0.003 ± 0.002a | 0.003 ±0.001a | 0.0003 ± 0.0001a | 0.001 ± 0.0004a |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Clostridiaceae;g\_*Clostridium* | 1 ± 0a | 0.0004 ± 0.0003b | 1 ± 02a | 0.003 ± 0.001b |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;Other;Other | 0.001 ± 0.0001b | 0.004 ± 0.0004a | 0.002 ± 0.0002b | 0.004 ± 0.001a |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Veillonellaceae;g\_*Acidaminococcus* | 0.002 ± 0.0005b | 0.003 ± 0.001b | 02 ± 0a | 1 ± 0ab |
| p\_Proteobacteria;c\_Betaproteobacteria;o\_Burkholderiales;f\_Alcaligenaceae;g\_*Sutterella* | 0.002 ± 0.001a | 0.003 ± 0.001a | 0.002 ± 0.001a | 0.002 ± 0.0004a |
| p\_Proteobacteria;c\_Deltaproteobacteria;o\_Desulfovibrionales;f\_Desulfovibrionaceae;g\_ | 0.002 ± 0.0004a | 0.002 ± 0.0003a | 0.002 ± 0.0003a | 0.001 ± 0.0002a |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Lachnospiraceae;Other | 0.001 ± 0.0001c | 0.003 ± 0.0003ab | 0.002 ± 0.0002bc | 0.004 ± 0.001c |
| p\_Synergistetes;c\_Synergistia;o\_Synergistales;f\_Synergistaceae;Other | 0.003 ± 0.001b | 0.0003 ± 0.0001b | 2 ± 0a | 1 ± 0b |
| p\_Firmicutes;c\_Clostridia;o\_Clostridiales;f\_Lachnospiraceae;g\_*Butyrivibrio* | 0.0006 ± 0.0001a | 0.001 ± 0.0004a | 0.002 ± 0.0004a | 0.002 ± 0.0003a |