**Supplementary Table 6. Genera and species with significant difference in content between oral sites in an age.**

**Genus level:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| Corynebacterium | Abiotrophia | Abiotrophia | Actinomyces | Abiotrophia |
| Eubacterium | Acinetobacter | Aggregatibacter | Bacillus | Actinomyces |
| Lachnoanaerobaculum | Aggregatibacter | Alloprevotella | Bradyrhizobium | Aggregatibacter |
| Neisseria | Aminobacterium | Atopobium | Butyricimonas | Capnocytophaga |
| Oribacterium | Anaeroglobus | Bradyrhizobium | Capnocytophaga | Gemella |
| Parvimonas | Anaerostipes | Butyricimonas | Gemella | Granulicatella |
| Peptostreptococcus | Atopobium | Capnocytophaga | Granulicatella | Lautropia |
| Prevotella | Bradyrhizobium | Corynebacterium | Lachnoanaerobaculum | Mycoplasma |
| Rothia | Capnocytophaga | Eikenella | Lactobacillus | **Solobacterium** |
| Solobacterium | Cardiobacterium | Eubacterium | Megasphaera |  |
| Sphingobium | Catonella | Gemella | Mycoplasma |  |
| Streptococcus | Clostridium\_sensu\_stricto | Gp1 | Oribacterium |  |
|  | Clostridium\_XlVa | Gp2 | **Solobacterium** |  |
|  | Corynebacterium | Granulicatella | Stomatobaculum |  |
|  | Deinococcus | Megasphaera | Streptobacillus |  |
|  | Delftia | Oribacterium | Streptococcus |  |
|  | Desulfomicrobium | Parvimonas | Streptomyces |  |
|  | Dialister | Prevotella | Treponema |  |
|  | Eikenella | Ralstonia |  |  |
|  | Faecalibacterium | Selenomonas |  |  |
|  | Filifactor | **Solobacterium** |  |  |
|  | Fretibacterium | Sphingomonas |  |  |
|  | Fusicatenibacter | Stomatobaculum |  |  |
|  | Gemella | Streptobacillus |  |  |
|  | Granulicatella | Streptococcus |  |  |
|  | Intestinibacter | Streptomyces |  |  |
|  | Lachnoanaerobaculum | Treponema |  |  |
|  | Lactobacillus | Veillonella |  |  |
|  | Lautropia |  |  |  |
|  | Massilia |  |  |  |
|  | Megasphaera |  |  |  |
|  | Micrococcus |  |  |  |
|  | Mycoplasma |  |  |  |
|  | Neisseria |  |  |  |
|  | Novosphingobium |  |  |  |
|  | Oribacterium |  |  |  |
|  | Peptostreptococcaceae\_  incertae\_sedis |  |  |  |
|  | Peptostreptococcus |  |  |  |
|  | Prevotella |  |  |  |
|  | Ralstonia |  |  |  |
|  | Romboutsia |  |  |  |
|  | Rothia |  |  |  |
|  | Saccharibacteria\_genera\_  incertae\_sedis |  |  |  |
|  | Selenomonas |  |  |  |
|  | **Solobacterium** |  |  |  |
|  | Sphingomonas |  |  |  |
|  | Sporanaerobacter |  |  |  |
|  | Stomatobaculum |  |  |  |
|  | Streptococcus |  |  |  |
|  | Streptophyta |  |  |  |
|  | Syntrophomonas |  |  |  |
|  | Tannerella |  |  |  |
|  | Treponema |  |  |  |
|  | Turicibacter |  |  |  |
|  | Veillonella |  |  |  |
|  | Wolinella |  |  |  |

**Species level**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A** | **B** | **C** | **D** | **E** |
| *Actinomyces\_graevenitzii* | *Abiotrophia\_defectiva* | *Abiotrophia\_defectiva* | ***Actinomyces\_odontolyticus*** | *Abiotrophia\_defectiva* |
| *Actinomyces\_massiliensis* | *Acinetobacter\_baumannii* | *Actinomyces\_graevenitzii* | *Bacillus\_thermoamylovorans* | *Actinomyces\_graevenitzii* |
| ***Actinomyces\_odontolyticus*** | *Acinetobacter\_junii* | ***Actinomyces\_odontolyticus*** | *Bacteroides\_uniformis* | ***Actinomyces\_odontolyticus*** |
| *Eubacterium\_sulci* | *Acinetobacter\_schindleri* | *Alloprevotella\_rava* | *Butyricimonas\_virosa* | *Anaeroglobus\_geminatus* |
| *Oribacterium\_sinus* | *Actinomyces\_gerencseriae* | *Alloprevotella\_tannerae* | *Campylobacter\_gracilis* | *Bacteroides\_coprocola* |
| *Parvimonas\_micra* | *Actinomyces\_graevenitzii* | *Butyricimonas\_virosa* | *Eubacterium\_sulci* | *Campylobacter\_gracilis* |
| *Peptostreptococcus\_stomatis* | *Actinomyces\_massiliensis* | *Campylobacter\_gracilis* | *Gemella\_haemolysans* | *Capnocytophaga\_leadbetteri* |
| *Prevotella\_jejuni* | ***Actinomyces\_odontolyticus*** | *Capnocytophaga\_granulosa* | *Granulicatella\_elegans* | *Capnocytophaga\_ochracea* |
| *Prevotella\_pallens* | *Alloprevotella\_rava* | *Capnocytophaga\_leadbetteri* | *Mycoplasma\_faucium* | *Capnocytophaga\_sputigena* |
| ***Solobacterium\_moorei*** | *Aminobacterium\_thunnarium* | *Capnocytophaga\_ochracea* | *Oribacterium\_sinus* | *Eubacterium\_sulci* |
|  | *Anaeroglobus\_geminatus* | *Capnocytophaga\_sputigena* | *Porphyromonas\_catoniae* | *Gemella\_haemolysans* |
|  | *Campylobacter\_gracilis* | *Cardiobacterium\_valvarum* | *Prevotella\_nanceiensis* | *Granulicatella\_elegans* |
|  | *Capnocytophaga\_granulosa* | *Corynebacterium\_durum* | ***Solobacterium\_moorei*** | *Lautropia\_mirabilis* |
|  | *Capnocytophaga\_leadbetteri* | *Dialister\_invisus* | *Stomatobaculum\_longum* | *Leptotrichia\_shahii* |
|  | *Capnocytophaga\_ochracea* | *Eikenella\_corrodens* | *Treponema\_amylovorum* | *Mycoplasma\_faucium* |
|  | *Capnocytophaga\_sputigena* | *Eubacterium\_sulci* | *Treponema\_medium* | *Neisseria\_oralis* |
|  | *Cardiobacterium\_hominis* | *Gemella\_haemolysans* | *Veillonella\_dispar* | *Prevotella\_micans* |
|  | *Cardiobacterium\_valvarum* | *Granulicatella\_elegans* |  | *Ralstonia\_pickettii* |
|  | *Catonella\_morbi* | *Leptotrichia\_goodfellowii* |  | *Ruminococcus\_bromii* |
|  | *Corynebacterium\_durum* | *Leptotrichia\_hongkongensis* |  | ***Solobacterium\_moorei*** |
|  | *Desulfomicrobium\_orale* | *Megasphaera\_micronuciformis* |  | *Streptococcus\_intermedius* |
|  | *Dialister\_invisus* | *Neisseria\_oralis* |  | *Streptococcus\_mutans* |
|  | *Dialister\_pneumosintes* | *Oribacterium\_sinus* |  | *Tannerella\_forsythia* |
|  | *Eikenella\_corrodens* | *Parvimonas\_micra* |  | *Treponema\_amylovorum* |
|  | *Faecalibacterium\_prausnitzii* | *Prevotella\_aurantiaca* |  | *Treponema\_medium* |
|  | *Fretibacterium\_fastidiosum* | *Prevotella\_copri* |  |  |
|  | *Fusicatenibacter\_saccharivorans* | *Prevotella\_jejuni* |  |  |
|  | *Gemella\_haemolysans* | *Prevotella\_loescheii* |  |  |
|  | *Granulicatella\_elegans* | *Prevotella\_maculosa* |  |  |
|  | *Haemophilus\_parainfluenzae* | *Prevotella\_nanceiensis* |  |  |
|  | *Intestinibacter\_bartlettii* | *Prevotella\_pleuritidis* |  |  |
|  | *Lautropia\_mirabilis* | *Prevotella\_saccharolytica* |  |  |
|  | *Leptotrichia\_hongkongensis* | *Prevotella\_salivae* |  |  |
|  | *Leptotrichia\_shahii* | *Ralstonia\_pickettii* |  |  |
|  | *Megasphaera\_micronuciformis* | *Selenomonas\_artemidis* |  |  |
|  | *Mycoplasma\_faucium* | *Selenomonas\_infelix* |  |  |
|  | *Neisseria\_oralis* | *Selenomonas\_noxia* |  |  |
|  | *Oribacterium\_sinus* | ***Solobacterium\_moorei*** |  |  |
|  | *Peptostreptococcus\_stomatis* | *Stomatobaculum\_longum* |  |  |
|  | *Porphyromonas\_endodontalis* | *Treponema\_amylovorum* |  |  |
|  | *Porphyromonas\_gingivalis* | *Treponema\_denticola* |  |  |
|  | *Prevotella\_aurantiaca* | *Treponema\_medium* |  |  |
|  | *Prevotella\_baroniae* | *Veillonella\_dispar* |  |  |
|  | *Prevotella\_denticola* |  |  |  |
|  | *Prevotella\_jejuni* |  |  |  |
|  | *Prevotella\_loescheii* |  |  |  |
|  | *Prevotella\_maculosa* |  |  |  |
|  | *Prevotella\_micans* |  |  |  |
|  | *Prevotella\_nanceiensis* |  |  |  |
|  | *Prevotella\_nigrescens* |  |  |  |
|  | *Prevotella\_pallens* |  |  |  |
|  | *Prevotella\_pleuritidis* |  |  |  |
|  | *Prevotella\_saccharolytica* |  |  |  |
|  | *Prevotella\_salivae* |  |  |  |
|  | *Prevotella\_shahii* |  |  |  |
|  | *Ralstonia\_pickettii* |  |  |  |
|  | *Selenomonas\_artemidis* |  |  |  |
|  | *Selenomonas\_infelix* |  |  |  |
|  | *Selenomonas\_noxia* |  |  |  |
|  | *Selenomonas\_sputigena* |  |  |  |
|  | ***Solobacterium\_moorei*** |  |  |  |
|  | *Sporanaerobacter\_acetigenes* |  |  |  |
|  | *Stomatobaculum\_longum* |  |  |  |
|  | *Streptococcus\_intermedius* |  |  |  |
|  | *Tannerella\_forsythia* |  |  |  |
|  | *Treponema\_amylovorum* |  |  |  |
|  | *Treponema\_denticola* |  |  |  |
|  | *Treponema\_lecithinolyticum* |  |  |  |
|  | *Treponema\_medium* |  |  |  |
|  | *Turicibacter\_sanguinis* |  |  |  |
|  | *Veillonella\_dispar* |  |  |  |
|  | *Wolinella\_succinogenes* |  |  |  |