**Supplemental Table 4.** Bacterial species unique to and shared between Ulcerative Colitis (UC), Crohn disease (CD), and Control groups

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| **Group** | **Bacterial Species** |
| Only found in UC |

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| *Actinomyces odontolyticus* |
| *Actinomyces turicensis* |
| *Aeromonas caviae* |
| *Aggregatibacter aphrophilus* |
| *Anaerococcus vaginalis* |
| *Bacteroides finegoldii* |
| *Bifidobacterium pseudolongum* |
| *Citrobacter freundii* |
| *Clostridium butyricum* |
| *Clostridium chromiireducens* |
| *Clostridium clostridioforme* |
| *Clostridium innocuum* |
| *Clostridium paraputrificum* |
| *Clostridium polysaccharolyticum* |
| *Clostridium tertium* |
| *Comamonas kerstersii* |
| *Cuneatibacter caecimuris* |
| *Dialister invisus* |
| *Dorea formicigenerans* |
| *Eggerthella lenta* |
| *Eikenella corrodens* |
| *Eisenbergiella tayi* |
| *Enterococcus canis* |
| *Enterococcus casseliflavus* |
| *Enterococcus durans* |
| *Enterococcus faecalis* |
| *Enterococcus faecium* |
| *Enterococcus saigonensis* |
| *Erysipelatoclostridium ramosum* |
| *Eubacterium ramulus* |
| *Faecalicatena orotica* |
| *Fusobacterium gastrosuis* |
| *Fusobacterium periodonticum* |
| *Fusobacterium simiae* |
| *Fusobacterium varium* |
| *Haemophilus aegyptius* |
| *Haemophilus haemolyticus* |
| *Haemophilus massiliensis* |
| *Haemophilus parainfluenzae* |
| *Haemophilus paraphrohaemolyticus* |
| *Haemophilus pittmaniae* |
| *Holdemanella biformis* |
| *Hungatella effluvii* |
| *Intestinibacter bartlettii* |
| *Klebsiella pneumoniae* |
| *Klebsiella variicola* |
| *Lactobacillus brantae* |
| *Lactobacillus fermentum* |
| *Lactobacillus gallinarum* |
| *Lactobacillus parabuchneri* |
| *Lactobacillus porcinae* |
| *Lactobacillus rhamnosus* |
| *Lactobacillus salivarius* |
| *Leptotrichia trevisanii* |
| *Leptotrichia wadei* |
| *Megasphaera micronuciformis* |
| *Muricomes intestini* |
| *Parvimonas micra* |
| *Pediococcus stilesii* |
| *Peptoniphilus duerdenii* |
| *Peptoniphilus grossensis* |
| *Peptoniphilus koenoeneniae* |
| *Peptostreptococcus anaerobius* |
| *Peptostreptococcus stomatis* |
| *Prevotella buccae* |
| *Prevotella buccalis* |
| *Prevotella denticola* |
| *Prevotella melaninogenica* |
| *Prevotella oris* |
| *Prevotella shahii* |
| *Prevotella stercorea* |
| *Rothia mucilaginosa* |
| *Shigella sonnei* |
| *Solobacterium moorei* |
| *Streptococcus agalactiae* |
| *Streptococcus alactolyticus* |
| *Streptococcus gordonii* |
| *Streptococcus hongkongensis* |
| *Streptococcus macedonicus* |
| *Streptococcus massiliensis* |
| *Streptococcus mitis* |
| *Streptococcus porcorum* |
| *Streptococcus rubneri* |
| *Streptococcus salivarius* |
| *Streptococcus sinensis* |
| *Veillonella atypica* |
| *Veillonella rogosae* |

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| Only found in CD |  |
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| *Abiotrophia defectiva* |
| *Bacteroides cellulosilyticus* |
| *Bacteroides coprocola* |
| *Bifidobacterium merycicum* |
| *Clostridium bolteae* |
| *Eisenbergiella massiliensis* |
| *Ilumatobacter nonamiensis* |
|  *Incertae Sedis* |
| *Jonquetella anthropi* |
| *Lactococcus chungangensis* |
| *Lactococcus lactis* |
| *Lactococcus piscium* |
| *Lactococcus taiwanensis* |
| *Megamonas funiformis* |
| *Parabacteroides johnsonii* |
| *Prevotella maculosa* |
| *Streptobacillus moniliformis* |
| *Streptococcus vestibularis* |
| *Sutterella parvirubra* |
| *Tannerella forsythia* |

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| Only found in Control group |  |
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| *Acidaminococcus intestini* |
| *Adlercreutzia equolifaciens* |
| *Alistipes finegoldii* |
| *Alistipes obesi* |
| *Alistipes putredinis* |
| *Alistipes senegalensis* |
| *Alistipes shahii* |
| *Anaerofilum pentosovorans* |
| *Anaeromassilibacillus senegalensis* |
| *Anaerotaenia torta* |
| *Bacteroides barnesiae* |
| *Bacteroides caccae* |
| *Bacteroides caecimuris* |
| *Bacteroides eggerthii* |
| *Bacteroides intestinalis* |
| *Bacteroides oleiciplenus* |
| *Bacteroides salyersiae* |
| *Bacteroides stercorirosoris* |
| *Barnesiella intestinihominis* |
| *Butyricimonas faecihominis* |
| *Butyricimonas paravirosa* |
| *Butyricimonas synergistica* |
| *Dialister propionicifaciens* |
| *Eubacterium ventriosum* |
| *Eubacterium xylanophilum* |
| *Faecalicoccus acidiformans* |
| *Holdemania filiformis* |
| *Lachnospira pectinoschiza* |
| *Massiliomicrobiota timonensis* |
| *Murimonas intestini* |
| *Negativibacillus massiliensis* |
| *Oxalobacter formigenes* |
| *Parabacteroides distasonis* |
| *Parabacteroides gordonii* |
| *Parabacteroides merdae* |
| *Paraprevotella clara* |
| *Phascolarctobacterium succinatutens* |
| *Prevotella disiens* |
| *Pseudobutyrivibrio ruminis* |
| *Pseudoflavonifractor phocaeensis* |
| *Ruminococcus albus* |
| *Ruminococcus callidus* |
| *Senegalimassilia anaerobia* |
| *Succinatimonas hippei* |
| *Sutterella massiliensis* |
| *Sutterella wadsworthensis* |
| *Sutturella timonensis* |
| *Victivallis vadensis* |

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| Found in all three groups |  |
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| *Akkermansia muciniphila* |
| *Alistipes onderdonkii* |
| *Anaerostipes hadrus* |
| *Bacteroides faecis* |
| *Bacteroides fragilis* |
| *Bacteroides massiliensis* |
| *Bacteroides ovatus* |
| *Bacteroides plebeius* |
| *Bacteroides uniformis* |
| *Bacteroides vulgatus* |
| *Bacteroides xylanisolvens* |
| *Bifidobacterium catenulatum* |
| *Blautia obeum* |
| *Butyricimonas virosa* |
| *Collinsella aerofaciens* |
| *Dialister succinatiphilus* |
| *Dorea longicatena* |
| *Escherichia coli* |
| *Faecalibacterium prausnitzii* |
| *Fusicatenibacter saccharivorans* |
| *Gemmiger formicilis* |
| *Kineothrix alysoides* |
| *Lactobacillus rogosae* |
| *Romboutsia timonensis* |
| *Ruminococcus bromii* |
| *Ruminococcus lactaris* |
| *Ruminococcus torques* |
| *Ruthenibacterium lactatiformans* |
| *Streptococcus thermophilus* |

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