SER-401 Placebo-BL Network centrality and communities 2 3 Blautia\_wexlerae+ LKT\_f\_\_Lachnospiraceae-LKT\_f\_\_Ruminococcaceae-Bilophila\_wadsworthia-Anaerobutyricum\_hallii LKT\_p\_\_Firmicutes Bacteroides\_intestinalis-Bittarella\_massiliensis Bacteroides\_ovatus Bacteroides\_stercoris Clostridia\_bacterium Alistipes\_ihumii-Candidatus\_Cibiobacter\_qucibialis-Blautia\_obeum Alistipes\_communis -Anaeromassilibacillus\_sp\_An250 Clostridiaceae\_bacterium\_OM08\_6BH Intestinimonas\_butyriciproducens-Clostridia\_bacterium\_UC5\_1\_1D1 Christensenellaceae\_bacterium -Blautia\_SGB4815 Candidatus\_Avimicrobium\_caecorum Clostridiales\_bacterium -Intestinimonas\_gabonensis Candidatus\_Schneewindia\_gallinarum Bacteroides\_caccae Clostridiales\_bacterium\_KLE1615 Lachnospiraceae\_bacterium Harryflintia\_acetispora-Faecalicatena\_contorta Enterocloster\_bolteae-Lactococcus\_lactis-Blautia\_SGB4831 Lachnospiraceae\_bacterium\_WCA3\_601\_WT\_6H Flavonifractor\_plautii-Evtepia\_gabavorous Clostridium\_leptum -Clostridium fessum-Clostridiaceae\_bacterium -Coprococcus\_comes-Clostridiales\_unclassified\_SGB15145 Parabacteroides\_merdae-Holdemania\_filiformis Lachnospiraceae\_bacterium\_NSJ\_29 Clostridia\_unclassified\_SGB4121 Eubacterium\_sp\_AM28\_29-Roseburia\_hominis-Roseburia\_sp\_AF02\_12 Christensenella\_massiliensis Phocaeicola\_vulgatus-Dorea\_sp\_AF36\_15AT Lacrimispora\_celerecrescens-Streptococcus\_thermophilus-Ruminococcaceae\_bacterium Anaerotruncus\_colihominis Roseburia\_inulinivorans Lacrimispora\_amygdalina Phocea\_massiliensis-Streptococcus\_sp\_A12+ Ruthenibacterium\_lactatiformans Phocaeicola\_massiliensis-Oscillibacter\_sp\_ER4-Odoribacter\_splanchnicus Ruminococcaceae\_bacterium\_AM07\_15 Lachnospiraceae\_bacterium\_OM04\_12BH-Methanobrevibacter\_smithii-Clostridium\_disporicum-Intestinibacter\_bartlettii-Lachnospira\_eligens Clostridia\_bacterium\_12CBH8 Firmicutes\_bacterium\_AF16\_15 Anaerotruncus\_rubiinfantis-Dysosmobacter\_sp\_NSJ\_60 Actinomyces\_sp\_S6\_Spd3-Alistipes\_shahii-5 6 LKT\_f\_\_Clostridia\_unclassified-Alistipes\_putredinis-Dysosmobacter\_welbionis-Bacteroides\_uniformis-Blautia\_massiliensis-Agathobaculum\_butyriciproducens-Blautia\_SGB4805 -Dorea\_longicatena+ LKT\_f\_\_Eggerthellaceae-Clostridium\_sp\_AF34\_10BH Candidatus\_Pararuminococcus\_gallinarum-Blautia\_faecis-Faecalibacterium\_prausnitzii-Clostridium\_innocuum -Dorea\_formicigenerans-Collinsella\_aerofaciens -Bacteroides\_thetaiotaomicron-LKT\_f\_\_Enterococcaceae-Eggerthella\_lenta-Gemmiger\_formicilis-Mogibacterium\_diversum+ Eisenbergiella\_massiliensis Enterocloster\_asparagiformis-Clostridium\_phoceensis Clostridium\_sp\_Marseille\_P3244 Bacteroides\_xylanisolvens-Roseburia\_faecis Escherichia\_coli-Eubacterium\_rectale-Ruminococcus\_torques Streptococcus\_gordonii-Romboutsia\_timonensis Ruminococcus\_bromii -Lachnoclostridium\_sp\_An138 Roseburia\_intestinalis-Eubacterium\_ventriosum + Clostridia\_unclassified\_SGB14844-Eubacterium\_siraeum · Fusicatenibacter\_saccharivorans Bifidobacterium\_dentium -0.02 0.04 0.06 0.08 0.00 7 8 Clostridia\_bacterium\_UC5\_1\_1E11 Parasutterella\_excrementihominis -Eisenbergiella\_tayi-Streptococcus\_parasanguinis+ Parabacteroides\_distasonis-Streptococcus\_salivarius + Sellimonas\_intestinalis -Candidatus\_Saccharibacteria\_unclassified\_SGB19850-Anaerostipes\_hadrus + 0.04 0.08 0.00 0.02 0.04 0.06 0.08 0.00 0.02 0.06 Page Rank centrality