

Supplementary Table 2: List of top 129 OTU markers obtained using the Random Forest approach for the prediction of dietary compliance scores, along with their SPINGO classifications, association with food scores as well as the ranked feature importance scores for the baseline and followup time points

OTU	Ranked Feature Correlation		Genus	Species	Final
	Baseline	Follow-up			
OTU_4560	0.99412752	0.5041946	Unclassified	Unclassified	Unclassified
OTU_3114	0.98993289	0.9798658	Faecalibacterium	Faecalibacterium_prausnitzii	Faecalibacterium_prausnitzii
OTU_147	0.86996644	0.9941275	Unclassified	Unclassified	Unclassified
OTU_1205	0.95721477	0.9530201	Unclassified	Unclassified	Unclassified
OTU_300	0.96224832	0.9102349	Unclassified	Unclassified	Unclassified
OTU_584	0.98573826	0.9916107	Faecalibacterium	Faecalibacterium_prausnitzii	Faecalibacterium_prausnitzii
OTU_69	0.99832215	0.6526846	Unclassified	Unclassified	Unclassified
OTU_336	0.97986577	0.9781879	Roseburia	Unclassified	Roseburia_Unclassified
OTU_207	0.98238255	0.2332215	Unclassified	Unclassified	Unclassified
OTU_11233	0.2307047	0.9983221	Blautia	Ruminococcus_torques	Ruminococcus_torques
OTU_67	0.97651007	0.9974832	Unclassified	Unclassified	Unclassified
OTU_5978	0.98909396	0.658557	Unclassified	Unclassified	Unclassified
OTU_79	0.85151007	0.9899329	Eubacterium	Eubacterium_xylanophilum	Eubacterium_xylanophilum
OTU_131	0.90855705	0.9639262	Unclassified	Unclassified	Unclassified
OTU_1093	0.99496644	0.9211409	Anaerostipes	Unclassified	Anaerostipes_Unclassified
OTU_24	0.93875839	0.8557047	Unclassified	Unclassified	Unclassified
OTU_36	0.79026846	0.9630872	Prevotella	Prevotella_copri	Prevotella_copri
OTU_364	0.8909396	0.9513423	Clostridium	Clostridium_lactatifermentans	Clostridium_lactatifermentans
OTU_12121	0.95553691	0.8842282	Eubacterium	Eubacterium_eligens	Eubacterium_eligens
OTU_2352	0.95302013	0.1082215	Blautia	Unclassified	Blautia_Unclassified
OTU_1569	0.97902685	0.8213087	Clostridium	Unclassified	Clostridium_Unclassified
OTU_139	0.96979866	0.9991611	Clostridium	Unclassified	Clostridium_Unclassified
OTU_1006	0.41694631	0.9714765	Prevotella	Prevotella_copri	Prevotella_copri
OTU_1740	0.97147651	0.8708054	Unclassified	Unclassified	Unclassified
OTU_103	0.9295302	0.9437919	Unclassified	Unclassified	Unclassified
OTU_9966	0.97315436	0.7709732	Unclassified	Unclassified	Unclassified
OTU_8631	0.14177852	0.9446309	Prevotella	Prevotella_copri	Prevotella_copri
OTU_3603	0.68959732	0.9865772	Unclassified	Unclassified	Unclassified

OTU_1594	0.94211409	0.8011745	Eubacterium	Eubacterium_rectale	Eubacterium_rectale
OTU_32	0.98741611	0.9505034	Eubacterium	Eubacterium_eligens	Eubacterium_eligens
OTU_124	0.56459732	0.9731544	Unclassified	Unclassified	Unclassified
OTU_11498	0.23238255	0.989094	Anaerostipes	Anaerostipes_hadrus	Anaerostipes_hadrus
OTU_250	0.76090604	0.9790268	Unclassified	Unclassified	Unclassified
OTU_1221	0.95385906	0.9236577	Faecalibacterium	Faecalibacterium_prausnitzii	Faecalibacterium_prausnitzii
OTU_306	0.7533557	0.977349	Clostridium	Unclassified	Clostridium_Unclassified
OTU_120	0.9488255	0.4697987	Unclassified	Unclassified	Unclassified
OTU_1069	0.9647651	0.9966443	Clostridium	Clostridium_disporicum	Clostridium_disporicum
OTU_30	0.93791946	0.9127517	Clostridium	Clostridium_ruminantium	Clostridium_ruminantium
OTU_11429	0.97399329	0.7927852	Blautia	Unclassified	Blautia_Unclassified
OTU_8606	0.50838926	0.9572148	Unclassified	Unclassified	Unclassified
OTU_233	0.84563758	0.9463087	Eggerthella	Eggerthella_lenta	Eggerthella_lenta
OTU_6577	0.88255034	0.9488255	Blautia	Blautia_faecis	Blautia_faecis
OTU_64	0.77097315	0.9924497	Clostridium	Unclassified	Clostridium_Unclassified
OTU_86	0.92785235	0.9412752	Bacteroides	Bacteroides_thetaiotaomicron	Bacteroides_thetaiotaomicron
OTU_273	0.59647651	0.9689597	Clostridium	Unclassified	Clostridium_Unclassified
OTU_1280	0.94295302	0.2944631	Coprococcus	Coprococcus_catus	Coprococcus_catus
OTU_144	0.51677852	0.9521812	Parabacteroides	Unclassified	Unclassified
OTU_3372	0.70469799	0.9555369	Ruminococcus	Ruminococcus_bromii	Ruminococcus_bromii
OTU_12119	0.98322148	0.6417785	Unclassified	Unclassified	Unclassified
OTU_4016	0.94798658	0.3011745	Unclassified	Unclassified	Unclassified
OTU_6257	0.89597315	0.9379195	Roseburia	Roseburia_hominis	Roseburia_hominis
OTU_2604	0.96057047	0.8808725	Blautia	Blautia_faecis	Blautia_faecis
OTU_3860	0.94043624	0.817953	Blautia	Ruminococcus_obeum	Ruminococcus_obeum
OTU_470	0.97231544	0.4010067	Unclassified	Unclassified	Unclassified
OTU_21	0.96560403	0.965604	Anaerostipes	Anaerostipes_hadrus	Anaerostipes_hadrus
OTU_109	0.97483221	0.8372483	Clostridium	Clostridium_leptum	Clostridium_leptum
OTU_105	0.95637584	0.909396	Barnesiella	Barnesiella_intestinihominis	Barnesiella_intestinihominis
OTU_195	0.94379195	0.8833893	Unclassified	Unclassified	Unclassified
OTU_3501	0.55201342	0.9932886	Clostridium	Unclassified	Clostridium_Unclassified
OTU_9359	0.87248322	0.9387584	Faecalibacterium	Faecalibacterium_prausnitzii	Faecalibacterium_prausnitzii
OTU_168	0.87332215	0.9706376	Unclassified	Unclassified	Unclassified

OTU_3985	0.97063758	0.9110738	Faecalibacterium	Faecalibacterium_prausnitzii	Faecalibacterium_prausnitzii
OTU_34	0.9614094	0.8598993	Eubacterium	Eubacterium_hallii	Eubacterium_hallii
OTU_1356	0.73657718	0.9681208	Unclassified	Unclassified	Unclassified
OTU_5591	0.95050336	0.7063758	Unclassified	Unclassified	Unclassified
OTU_704	0.88422819	0.9404362	Unclassified	Unclassified	Unclassified
OTU_57	0.93959732	0.9244966	Eubacterium	Eubacterium_desmolans	Eubacterium_desmolans
OTU_16	0.96895973	0.9312081	Bifidobacterium	Bifidobacterium_longum	Bifidobacterium_longum
OTU_4302	0.96812081	0.8364094	Bifidobacterium	Bifidobacterium_longum	Bifidobacterium_longum
OTU_952	0.97567114	0.7206376	Eubacterium	Unclassified	Eubacterium_Unclassified
OTU_179	0.96644295	0.1635906	Unclassified	Unclassified	Unclassified
OTU_263	0.84647651	0.9614094	Veillonella	Veillonella_dispar	Veillonella_dispar
OTU_789	0.9840604	0.4572148	Parabacteroides	Parabacteroides_distasonis	Parabacteroides_distasonis
OTU_695	0.94714765	0.7986577	Blautia	Unclassified	Blautia_Unclassified
OTU_49	0.64765101	0.9395973	Eubacterium	Eubacterium_siraeum	Eubacterium_siraeum
OTU_178	0.9454698	0.9723154	Unclassified	Unclassified	Unclassified
OTU_152	0.9807047	0.738255	Unclassified	Unclassified	Unclassified
OTU_7093	0.55033557	0.9597315	Unclassified	Unclassified	Unclassified
OTU_2056	0.88842282	0.9823826	Unclassified	Unclassified	Unclassified
OTU_6936	0.01510067	0.9907718	Unclassified	Unclassified	Unclassified
OTU_1034	0.57969799	0.9496644	Unclassified	Unclassified	Unclassified
OTU_2345	0.65604027	0.9739933	Unclassified	Unclassified	Unclassified
OTU_1	0.85234899	0.942953	Eubacterium	Eubacterium_rectale	Eubacterium_rectale
OTU_4661	0.95889262	0.8473154	Clostridium	Unclassified	Clostridium_Unclassified
OTU_1914	0.36577181	0.9647651	Clostridium	Unclassified	Clostridium_Unclassified
OTU_98	0.86157718	0.9471477	Clostridium	Unclassified	Clostridium_Unclassified
OTU_1621	1	0.9169463	Unclassified	Unclassified	Unclassified
OTU_7618	0.96728188	0.7994966	Blautia	Blautia_faecis	Blautia_faecis
OTU_89	0.9135906	0.9538591	Eubacterium	Eubacterium_ventriosum	Eubacterium_ventriosum
OTU_162	0.89848993	0.9848993	Flavonifractor	Flavonifractor_plautii	Flavonifractor_plautii
OTU_45	0.94630872	0.9840604	Clostridium	Unclassified	Clostridium_Unclassified
OTU_287	0.94966443	0.7718121	Unclassified	Unclassified	Unclassified
OTU_23	0.90520134	0.9672819	Clostridium	Clostridium_ramosum	Clostridium_ramosum
OTU_11	0.87080537	0.9421141	Blautia	Blautia_luti	Blautia_luti

OTU_10307	0.96308725	0.7583893	Clostridium	Unclassified	Clostridium_Unclassified
OTU_22	0.89765101	0.9765101	Ruminococcus	Unclassified	Ruminococcus_Unclassified
OTU_1582	0.8716443	0.9454698	Unclassified	Unclassified	Unclassified
OTU_9740	0.38926174	0.954698	Unclassified	Unclassified	Unclassified
OTU_307	0.74412752	0.9479866	Clostridium	Unclassified	Clostridium_Unclassified
OTU_384	0.60067114	0.9815436	Unclassified	Unclassified	Unclassified
OTU_347	0.87416107	0.9857383	Clostridium	Unclassified	Clostridium_Unclassified
OTU_84	0.86493289	0.9832215	Unclassified	Unclassified	Unclassified
OTU_2336	0.95973154	0.7625839	Blautia	Unclassified	Blautia_Unclassified
OTU_4369	0.60151007	0.9563758	Clostridium	Clostridium_aldenense	Clostridium_aldenense
OTU_65	0.88674497	0.9580537	Unclassified	Unclassified	Unclassified
OTU_719	0.94127517	0.7365772	Clostridium	Unclassified	Clostridium_Unclassified
OTU_414	0.34312081	0.9605705	Mogibacterium	Unclassified	Mogibacterium_Unclassified
OTU_5014	0.98489933	0.9697987	Blautia	Ruminococcus_torques	Ruminococcus_torques
OTU_5819	0.94463087	0.7197987	Clostridium	Clostridium_sporosphaeroides	Clostridium_sporosphaeroides
OTU_125	0.9966443	0.454698	Unclassified	Unclassified	Unclassified
OTU_10029	0.76677852	0.9622483	Unclassified	Unclassified	Unclassified
OTU_5862	0.97734899	0.579698	Actinomyces	Actinomyces_lingnae	Actinomyces_lingnae
OTU_945	0.85067114	0.9807047	Unclassified	Unclassified	Unclassified
OTU_447	0.99580537	0.9152685	Unclassified	Unclassified	Unclassified
OTU_375	0.95469799	0.7919463	Clostridium	Clostridium_methylpentosum	Clostridium_methylpentosum
OTU_1637	0.99244966	0.8733221	Unclassified	Unclassified	Unclassified
OTU_11425	0.96392617	0.3833893	Blautia	Ruminococcus_torques	Ruminococcus_torques
OTU_8952	0.98825503	0.9874161	Coprococcus	Coprococcus_comes	Coprococcus_comes
OTU_291	0.95134228	0.9958054	Collinsella	Collinsella_aerofaciens	Collinsella_aerofaciens
OTU_52	0.98657718	0.966443	Eubacterium	Eubacterium_ramulus	Eubacterium_ramulus
OTU_3602	0.95218121	0.9161074	Unclassified	Unclassified	Unclassified
OTU_10880	0.95805369	0.8716443	Blautia	Unclassified	Blautia_Unclassified
OTU_14	0.98154362	1	Collinsella	Collinsella_aerofaciens	Collinsella_aerofaciens
OTU_27	0.97818792	0.9756711	Coprococcus	Coprococcus_comes	Coprococcus_comes
OTU_9293	0.99748322	0.9144295	Blautia	Ruminococcus_torques	Ruminococcus_torques
OTU_53	0.99077181	0.9949664	Blautia	Ruminococcus_torques	Ruminococcus_torques
OTU_1248	0.99161074	0.9588926	Unclassified	Unclassified	Unclassified

OTU_76	0.99916107	0.988255	Dorea	Dorea_formicigenerans	Dorea_formicigenerans
OTU_7369	0.99328859	0.9748322	Dorea	Dorea_formicigenerans	Dorea_formicigenerans