Suppl. Table.1. Patients’ individual information.

Patients Sex Age Disease type Donor Sex Age Response

　A M 56 IBS-D spouse F 54 R

　B F 45 FDr parent F 77 R

　C M 25 IBS-D sibling F 23 R

　D F 56 FDr sibling M 51 R

　E M 36 IBS-D parent M 36 R

　F M 57 IBS-D sibling F 55 R

　G F 42 IBS-D spouse M 44 NR

　H M 38 IBD-D spouse F 37 NR

　I M 24 IBD-D sibling F 33 NR

　J M 44 FDr parent F 68 NR

　K M 49 IBS-D parent M 79 NR

　L M 40 FDr sibling F 55 NR

IBS-D, Diarrhea dominant IBS; FDr, functional diarrhea; R, responder; NR, non-responder

Suppl. Table. 2. Comparison of SCFAs and its intermediate metabolites in feces between effective donor and ineffective donor in (a) IBS-D and (b) FDr cases. P values were obtained by paired *t*-tests.

(a)

Metabolite Effective Ineffective P value

(nmol/g) (nmol/g)

(n = 4) (n = 4)

Propionate 50055 13142 ***0.0295***

Butyrate 23753 5008 ***0.0040***

Lactate 81 443 ***0.0096***

　　　Succinate 5860 251 0.2683

(b)

Metabolite Effective Ineffective P value

(nmol/g) (nmol/g)

(n = 2) (n = 2)

Propionate 43889 20799 N.A.

Butyrate 14654 8120 N.A.

Lactate 311 935 N.A.

Succinate 1310 416 N.A.

Suppl. Table. 3. Comparison of bile acids in feces between effective donor and ineffective donor in (a) IBS-D and (b) FDr cases. P values were obtained by paired *t*-tests.

(a)

Metabolites Effective Ineffective P value

(nmol/g) (nmol/g)

(n = 4) 　 (n = 4)

Cholate 1406 689 0.4798　　　Deoxycholate 4191 513 0.0654

Glycocholate 320 11 0.3723

Taurocholate　 39 0 0.3559

(b)

Metabolites Effective Ineffective P value

(nmol/g) (nmol/g)

　　　　　　　　　 (n = 2) 　 (n = 2)

Cholate 304 9434 N.A.

Deoxycholate 2138 2017 N.A.

Glycocholate 0 53 N.A.

Taurocholate　 0 71 N.A.

Suppl. Table. 4. Other metabolites in feces that differed significantly except for SCFAs and bile acids, which did not include tryptophan between effective donor and ineffective donor, measured in (a) IBS-D and (b) FDr cases.

P values were obtained by paired *t*-tests.

(a)

Metabolites Effective Ineffective P value

(nmol/g) (nmol/g)

(n = 4) (n = 4)

Adenin 21 3 ***0.0158***

　Azelate 160 33 0.0518

　　　Cytidine 25 0 ***0.0389***

　　　Dodecanoate　　 130 0 0.1195

　　　dTMP 47 0 ***0.0307***

　　　Fumarate 90 0 0.0855

　　　Glutamate 3210 343 0.0734

　　　Hexanoate 108 17 ***0.0092***

　　　Hypoxanthine 109 0 ***0.0273***

　　　Imidazole-4-acetate 29 5 0.0800

　　　Inosine 277 0 ***0.0402***

　　　Lys 5418 977 ***0.0262***

　　　Malate 217 59 0.1435

N-Acetylglutamate 434 107 0.0647

N-Methylalanine 33 6 ***0.0228***

Pentanoate+3-Methylbutanoate 7280 2086 0.0683

Phthalate　　 17 2 ***0.0013***

Pimelate 298 12 ***0.0334***

Pyridoxamine 19 3 0.0621

Ser 889 214 ***0.0204***

3-Phenylpropionate 912 0 0.1036

4-Pyridoxate 35 7 ***0.0174***

(b)

Metabolites Effective Ineffective P value

(nmol/g) (nmol/g)

(n = 2) (n = 2)

Adenin 24 10 N.A.

　Azelate 80 40 N.A.

　　　Cytidine 22 0 N.A.

　　　Dodecanoate　　 159 0 N.A.

　　　dTMP 37 0 N.A.

　　　Fumarate 81 0 N.A.

　　　Glutamate 1321 614 N.A.

　　　Hexanoate 89 0 N.A.

　　　Hypoxanthine 141 75 N.A.

　　　Imidazole-4-acetate 27 0 N.A.

　　　Inosine 79 0 N.A.

　　　Lys 4214 2178 N.A.

　　　Malate 425 117 N.A.

N-Acetylglutamate 401 129 N.A.

N-Methylalanine 77 0 N.A.

Pentanoate+3-Methylbutanoate 4221 1077 N.A.

Phthalate　　 10 6 N.A.

Pimelate 131 25 N.A.

Pyridoxamine 9 4 N.A.

Ser 552 278 N.A.

3-Phenylpropionate 384 0 N.A.

4-Pyridoxate 31 8 N.A.