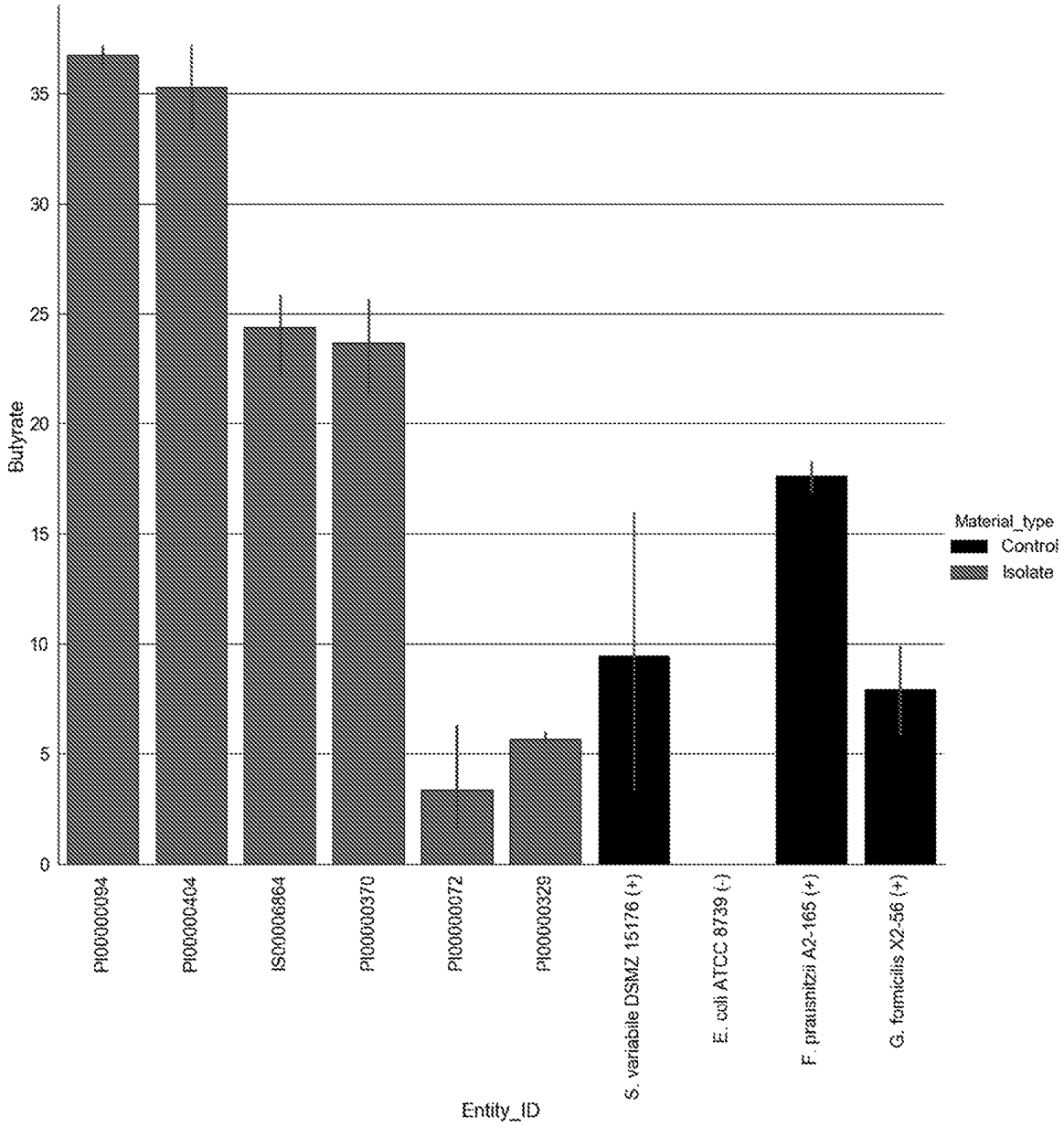

Butyrate
35
30
25
20
15
10
5
0
Material_type
Control
Isolate
P100000094
P100000404
ISO00006864
P100000370
P100000072
P100000329
S. variabile DSMZ 15176 (+)
E. coli ATCC 8739 (-)
F. prausnitzii A2-165 (+)
G. formicilis X2-56 (+)
Entity_ID

FIG. 1A

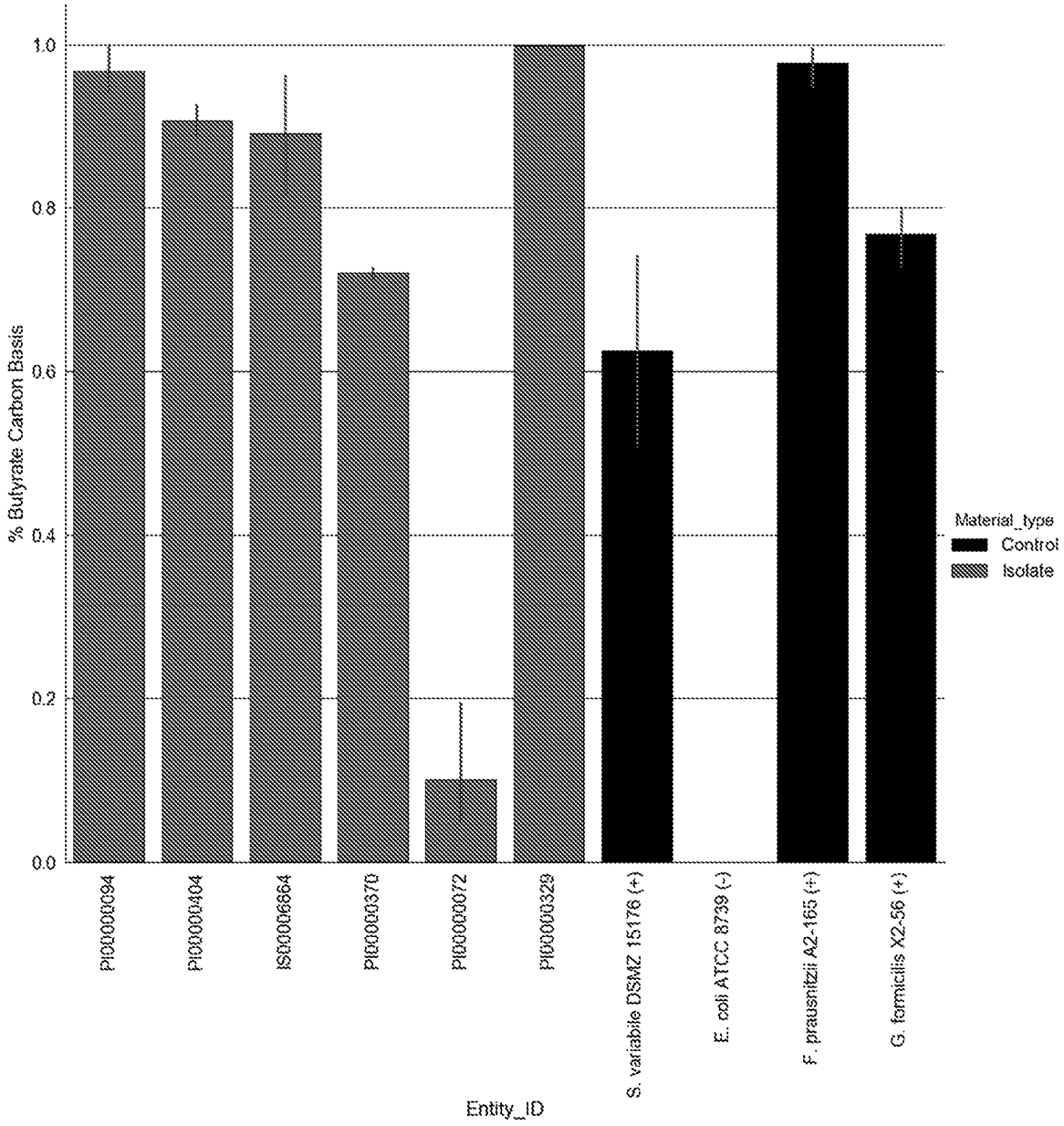

1.0
0.8
0.6
0.4
0.2
0.0
% Butyrate Carbon Basis
Material_type
Control
Isolate
PI00000094
PI00000404
IS00006864
PI00000370
PI00000072
PI00000329
S. variabile DSMZ 15176 (+)
E. coli ATCC 8739 (-)
F. prausnitzii A2-165 (+)
G. formicilis X2-56 (+)
Entity_ID

FIG. 1B

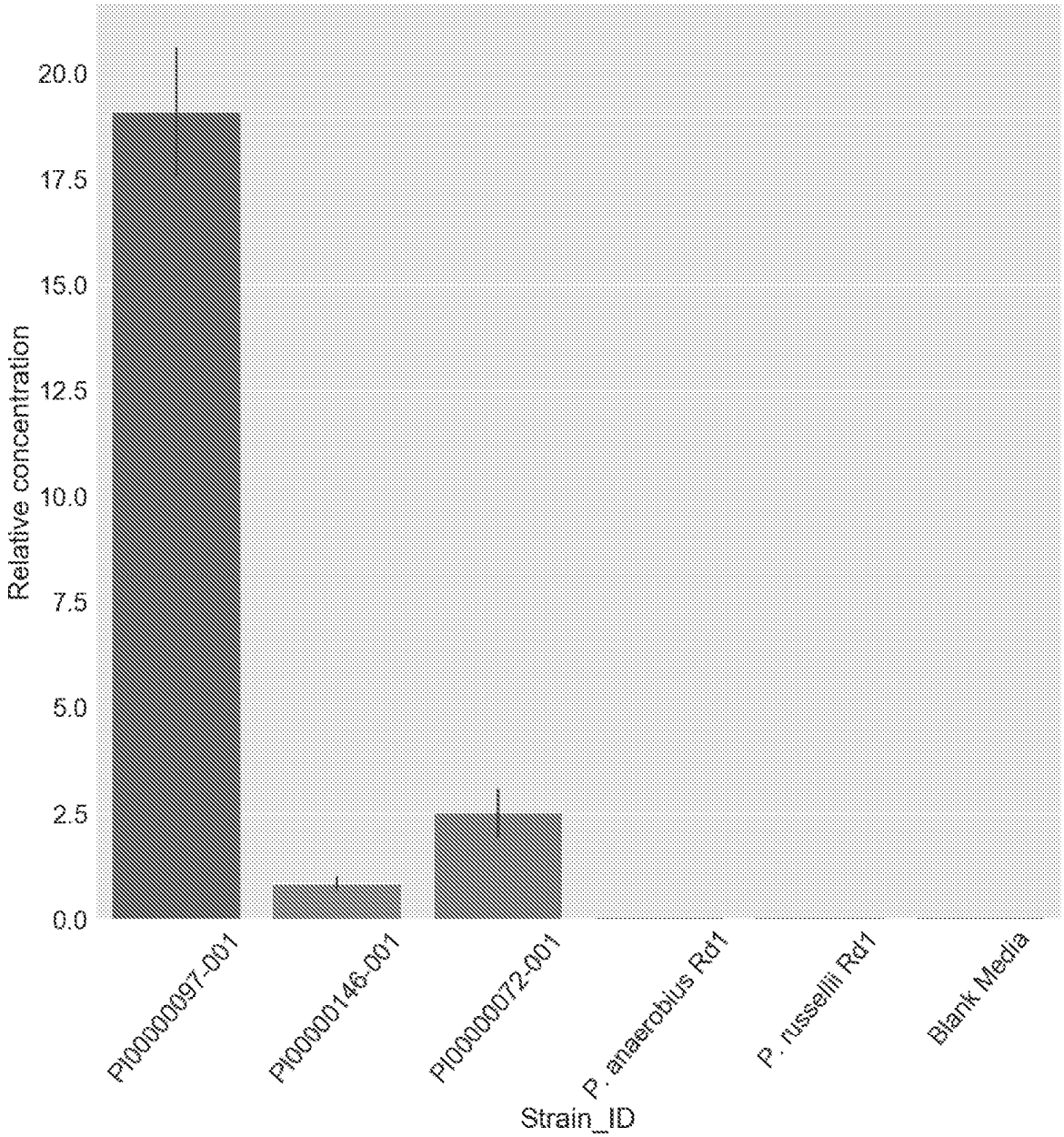

20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Relative concentration
PI00000097-001
PI00000146-001
PI00000072-001
P. anaerobius Rd1
P. russellii Rd1
Blank Media
Strain_ID

FIG. 2A

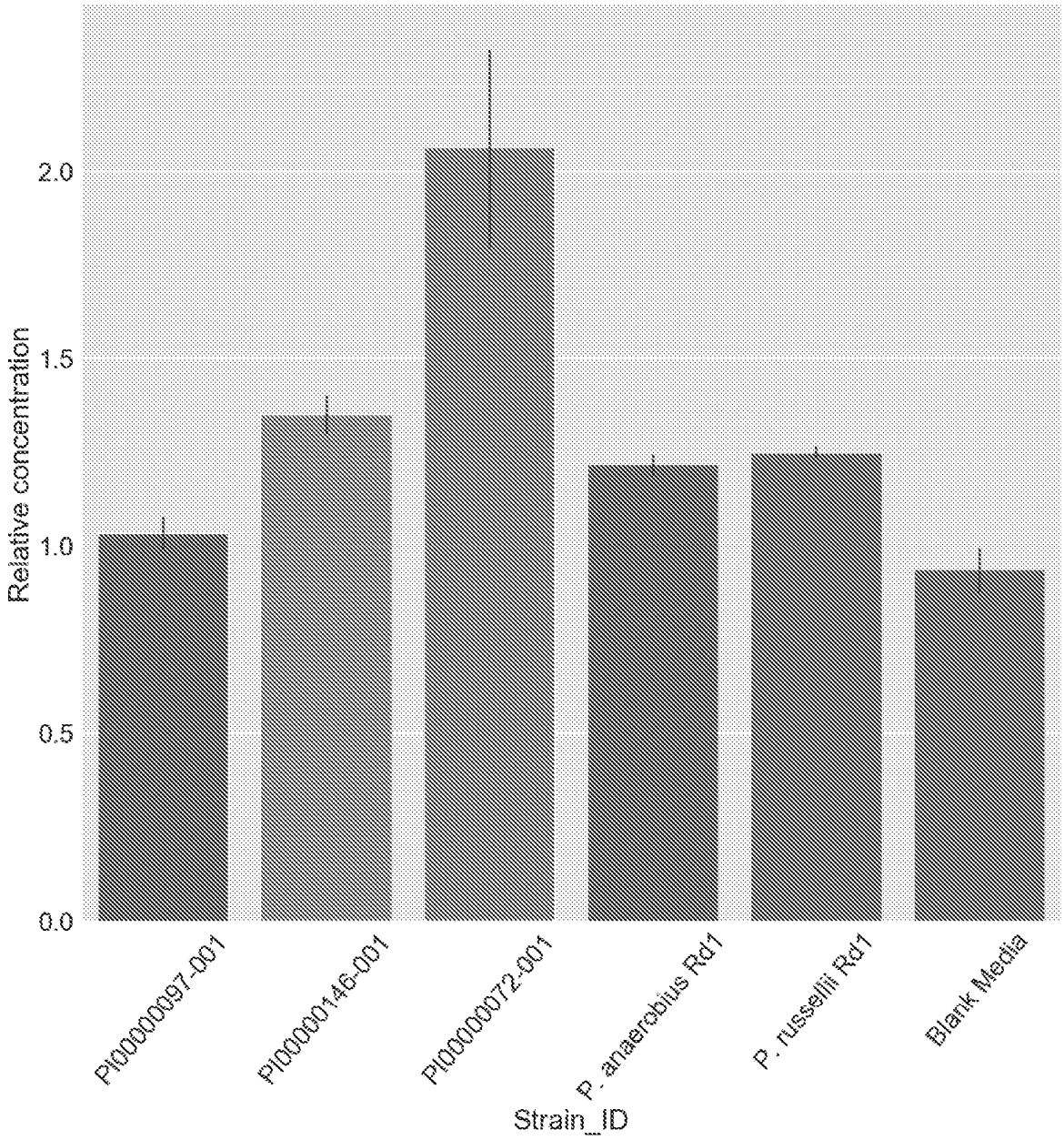

Relative concentration
2.0
1.5
1.0
0.5
0.0
PI00000097-001
PI00000146-001
PI00000072-001
P. anaerobius Rd1
P. russellii Rd1
Blank Media
Strain_ID

FIG. 2B

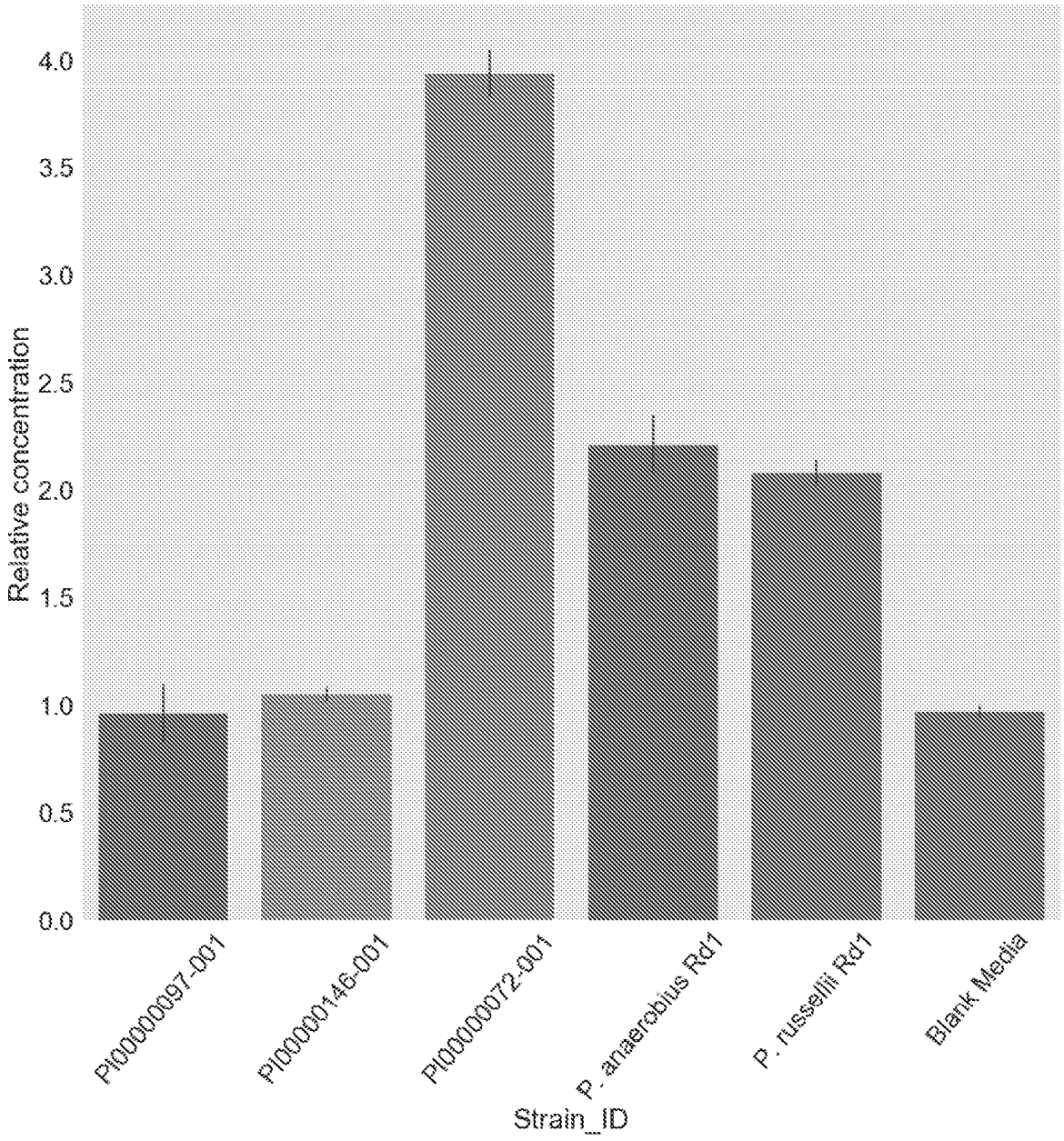

Relative concentration
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
PI00000097-001
PI00000146-001
PI00000072-001
P. anaerobius Rd1
P. russellii Rd1
Blank Media
Strain_ID

FIG. 2C

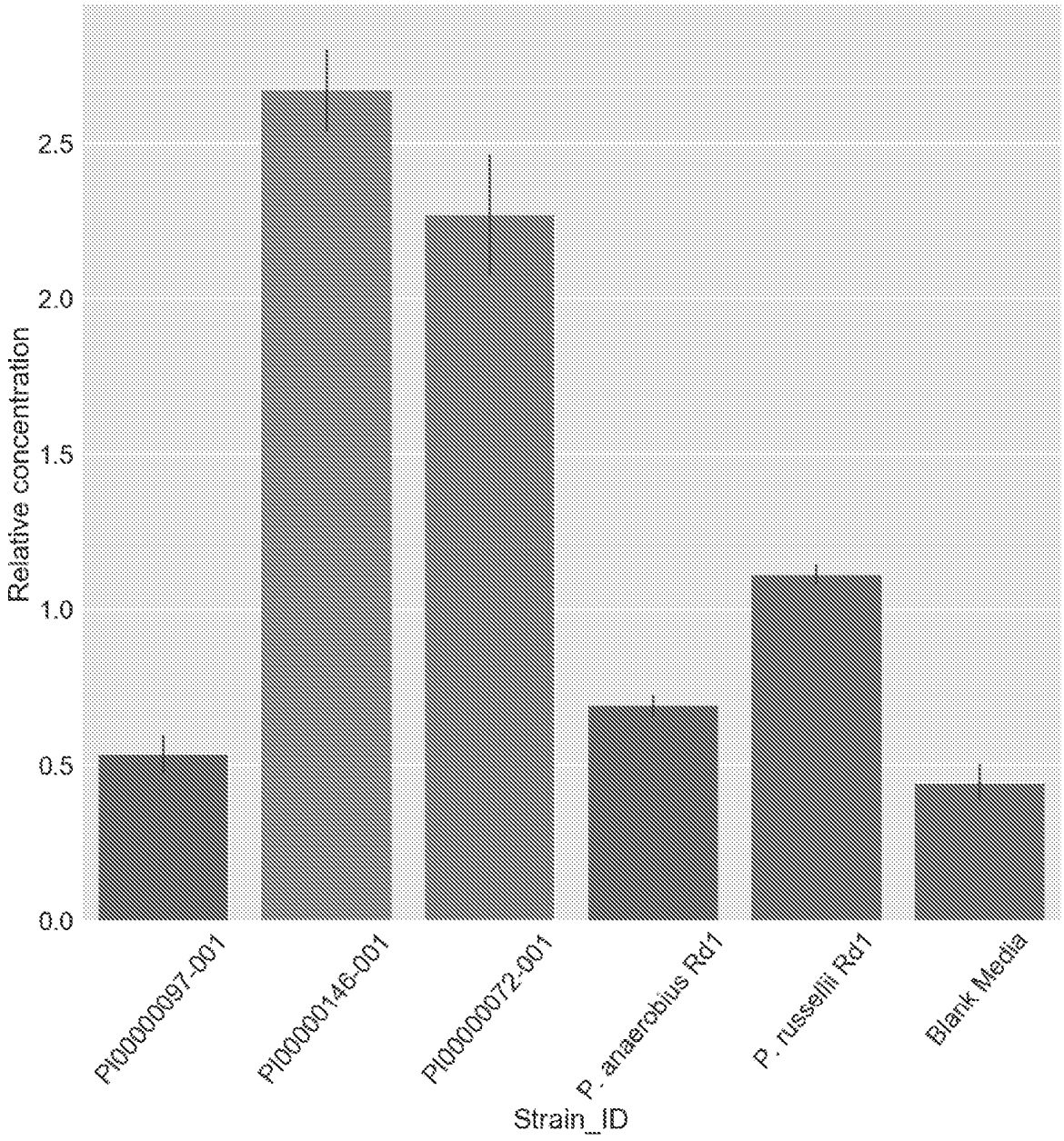

Relative concentration
2.5
2.0
1.5
1.0
0.5
0.0
PI00000097-001
PI00000146-001
PI00000072-001
P. anaerobius Rd1
P. russellii Rd1
Blank Media
Strain_ID

FIG. 2D

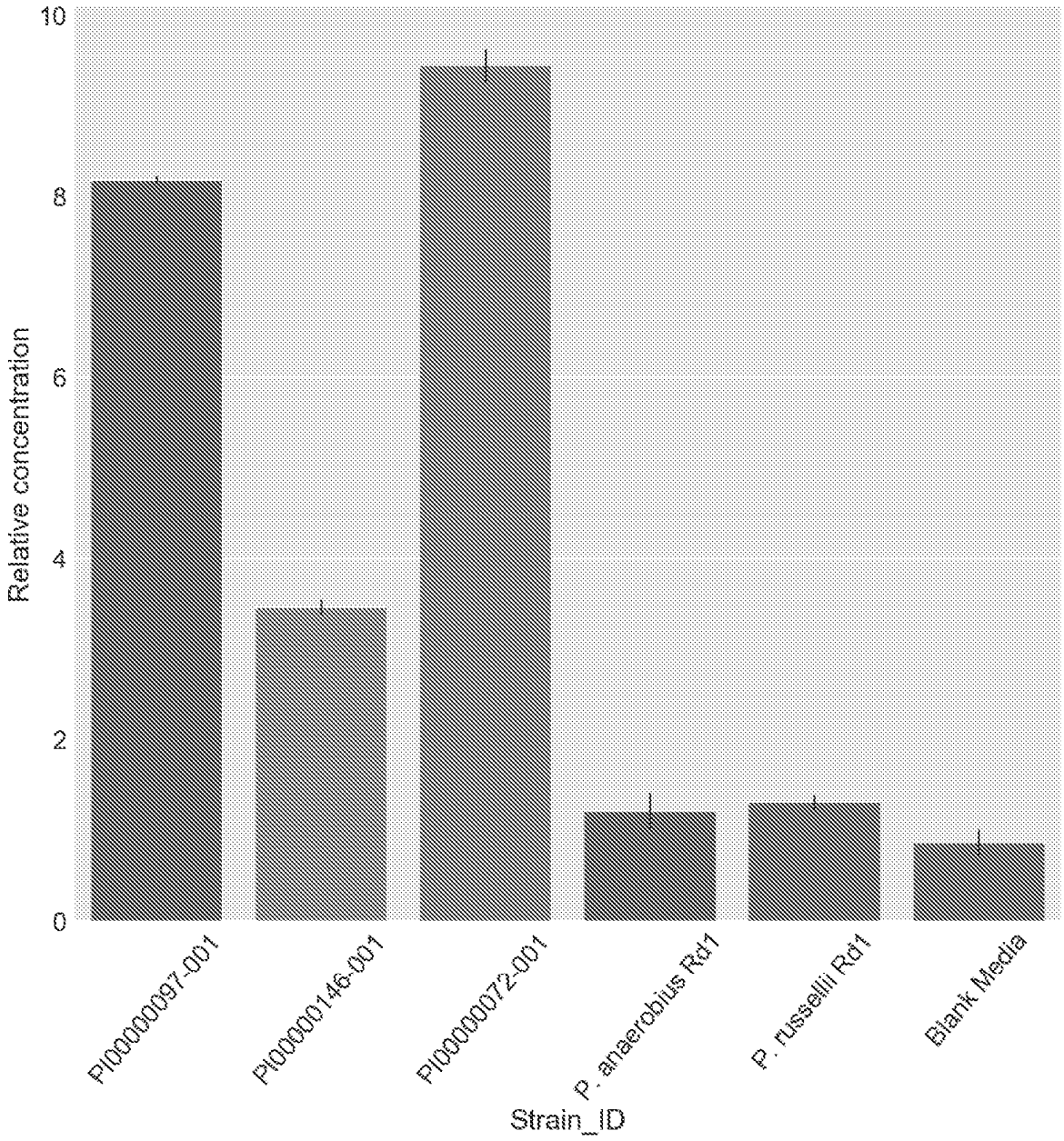

10
8
6
4
2
0
Relative concentration
PI00000097-001
PI00000146-001
PI00000072-001
P. anaerobius Rd1
P. russellii Rd1
Blank Media
Strain_ID

FIG. 2E

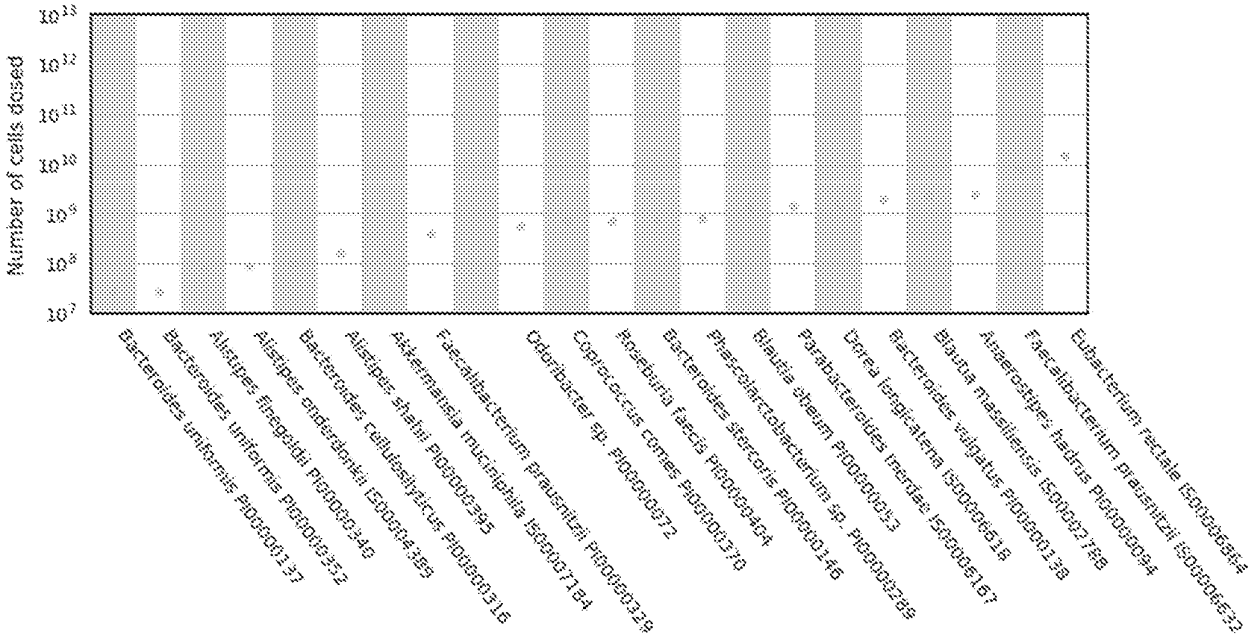

Number of cells dosed
10^{13}
10^{12}
10^{11}
10^{10}
10^{9}
10^{8}
10^{7}
Bacteroides uniformis PI0056001127
Bacteroides uniformis PI0056002352
Alistipes finegoldii PI0056002340
Alistipes onderdonkii I50056104383
Bacteroides cellulosilyticus PI0056000316
Akkermansia muciniphila PI0056000395
Faecalibacterium prausnitzii PI0056007184
Odoribacter sp. PI0056000329
Coprococcus comes PI0056000372
Roseburia faecis PI0056000370
Bacteroides stercoris PI0056000424
Phascolarctobacterium sp. PI0056000146
Blautia obeum PI0056000352
Parabacteroides merdae PI0056000286
Dorea longicatena I50056005167
Bacteroides vulgatus PI0056006616
Blautia massiliensis I50056001138
Anaerostipes hadrus PI0056002788
Faecalibacterium prausnitzii PI0056006094
Eubacterium rectale I50056006464
Eubacterium rectale I50056006422

FIG. 3

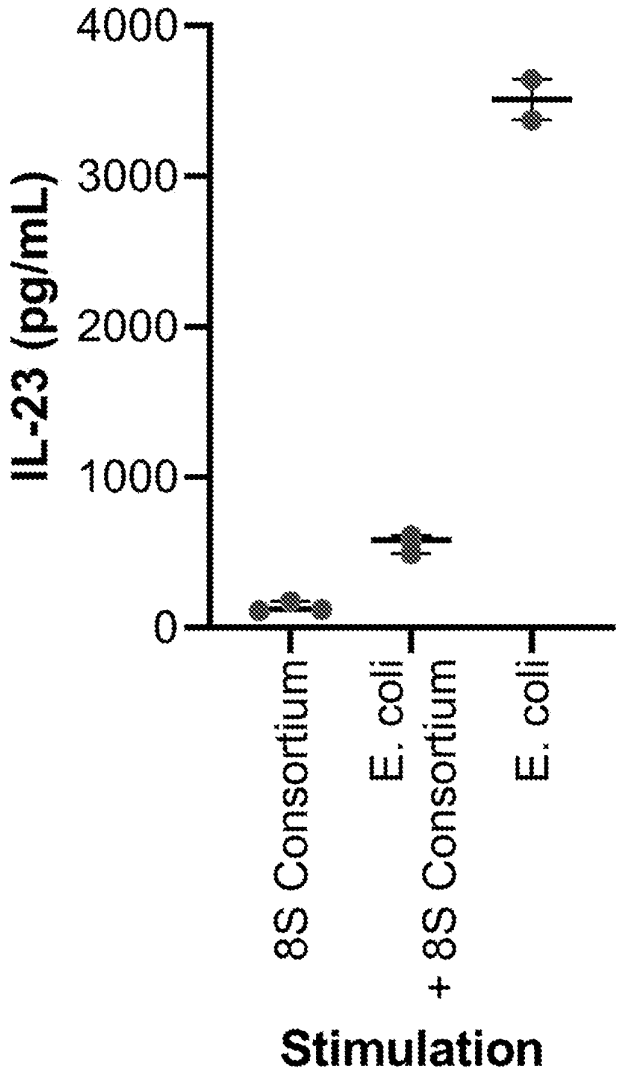

4000
3000
2000
1000
0
IL-23 (pg/mL)
8S Consortium
E. coli + 8S Consortium
E. coli
Stimulation

FIG. 4A

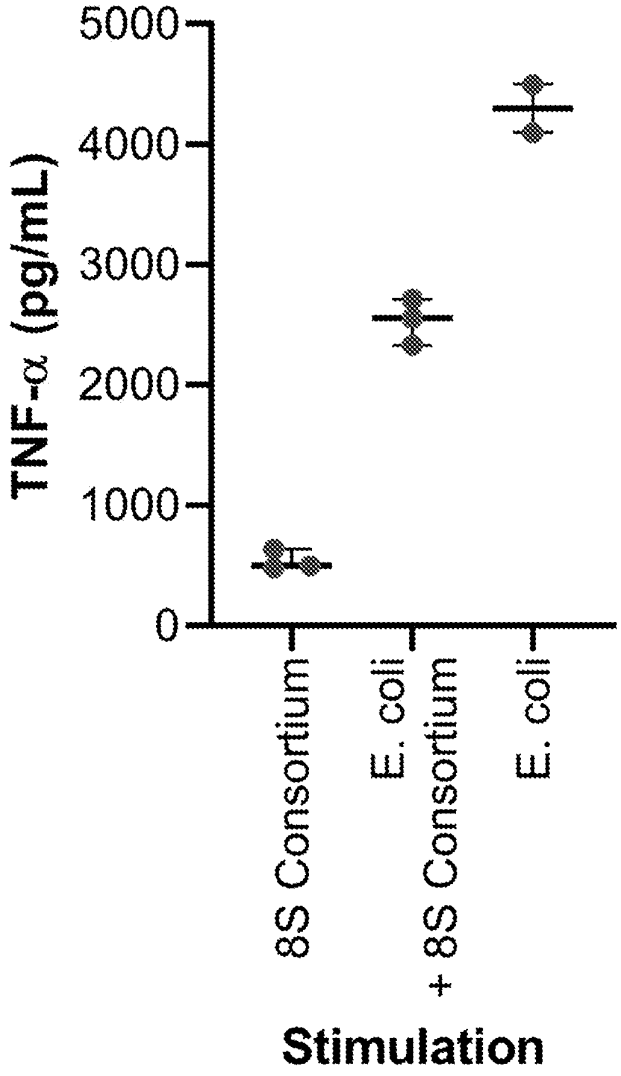

5000
4000
3000
2000
1000
0
TNF-α (pg/mL)
8S Consortium
E. coli + 8S Consortium
E. coli
Stimulation

FIG. 4B

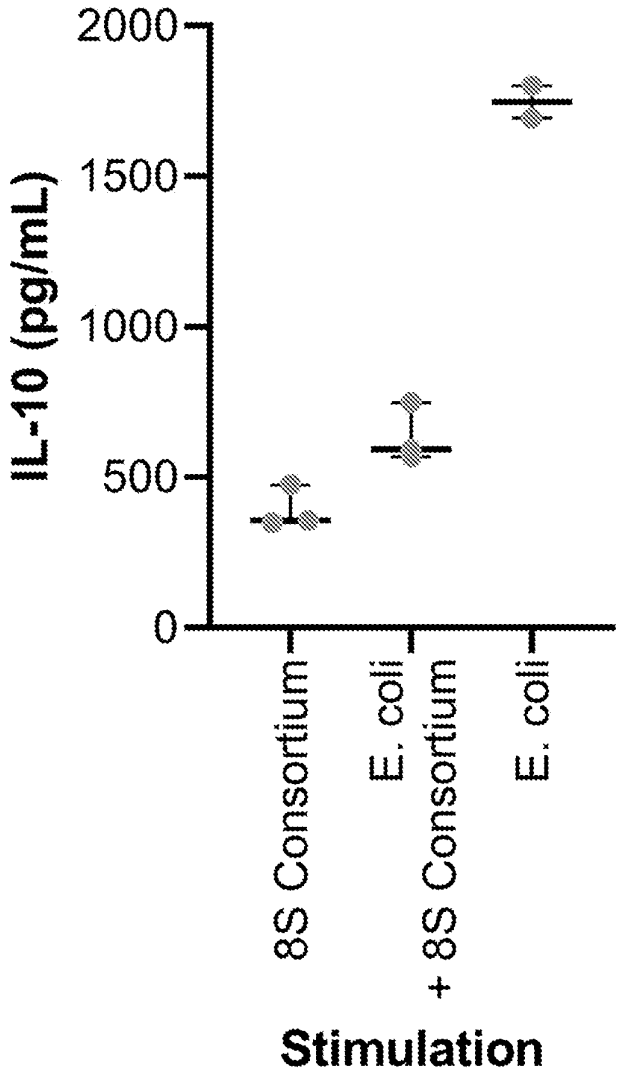

2000
1500
1000
500
0
IL-10 (pg/mL)
8S Consortium
E. coli + 8S Consortium
E. coli
Stimulation

FIG. 4C

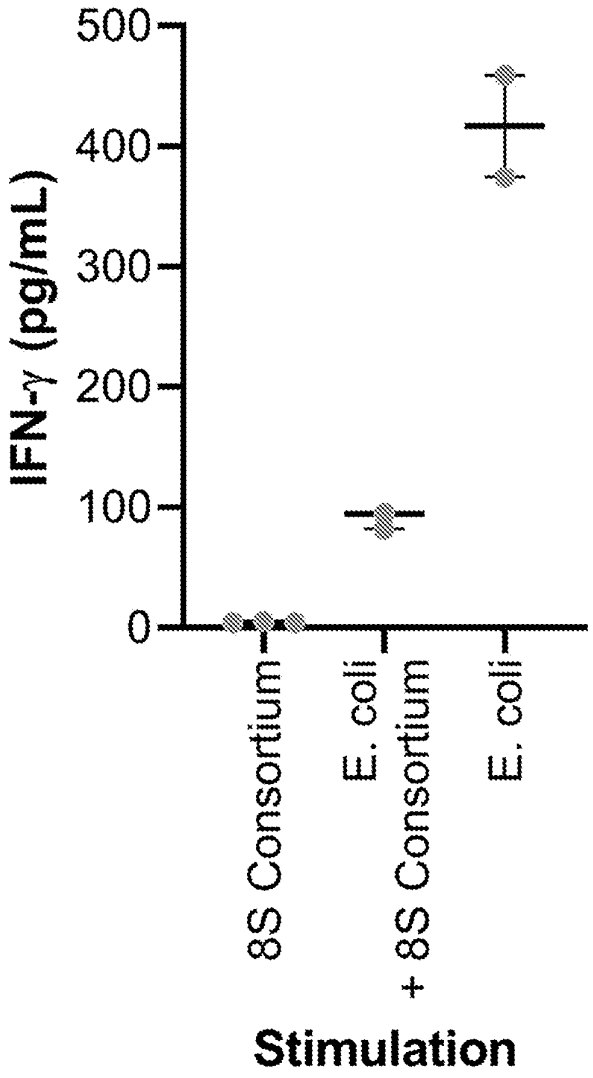

500
400
300
200
100
0
IFN-γ (pg/mL)
8S Consortium
E. coli
E. coli + 8S Consortium
Stimulation

FIG. 4D

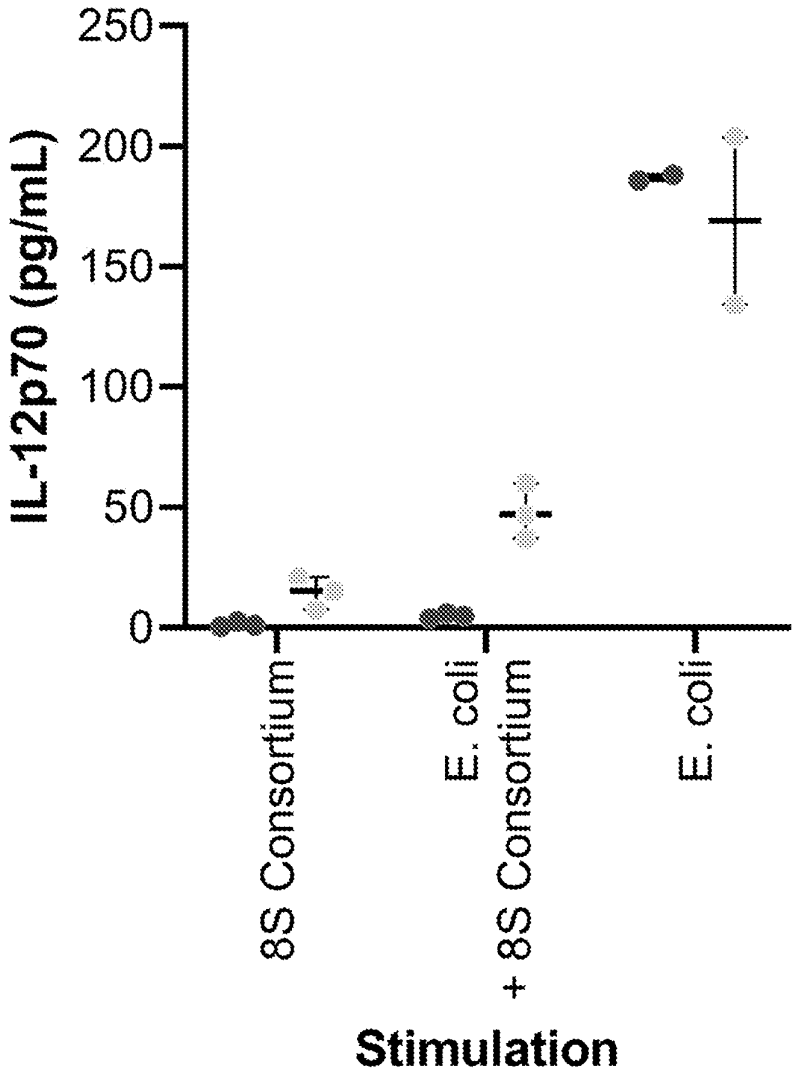

250
200
150
100
50
0
IL-12p70 (pg/mL)
8S Consortium
E. coli + 8S Consortium
E. coli
Stimulation

FIG. 4E

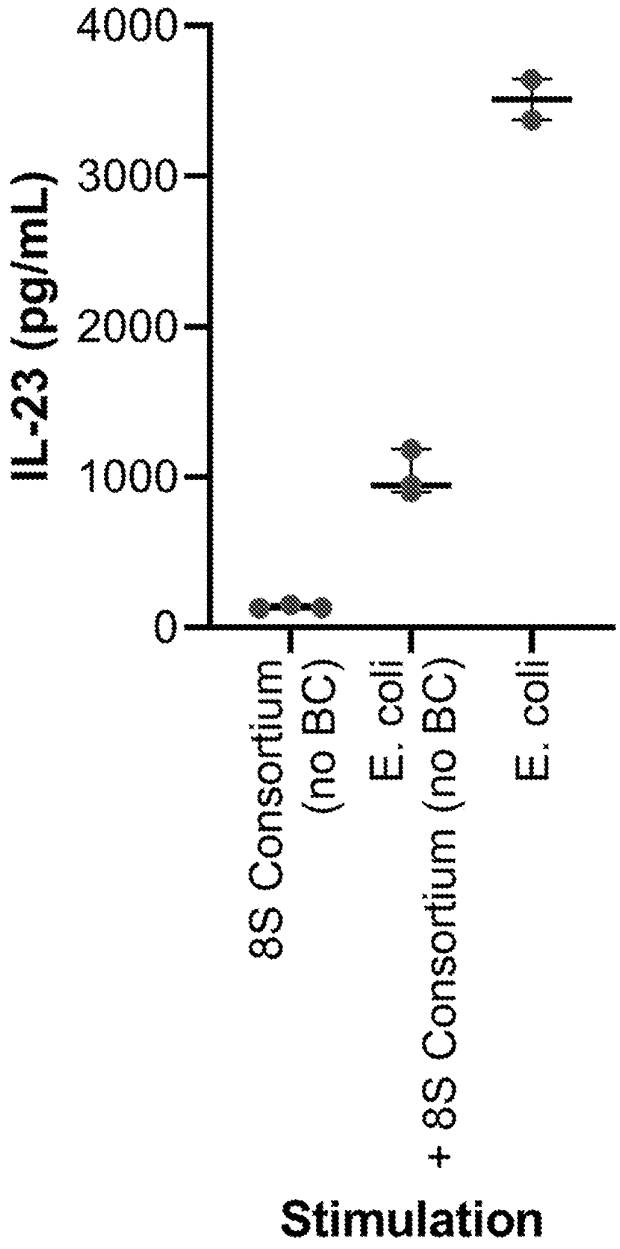

4000
3000
2000
1000
0
IL-23 (pg/mL)
8S Consortium (no BC)
E. coli + 8S Consortium (no BC)
E. coli
Stimulation

FIG. 5A

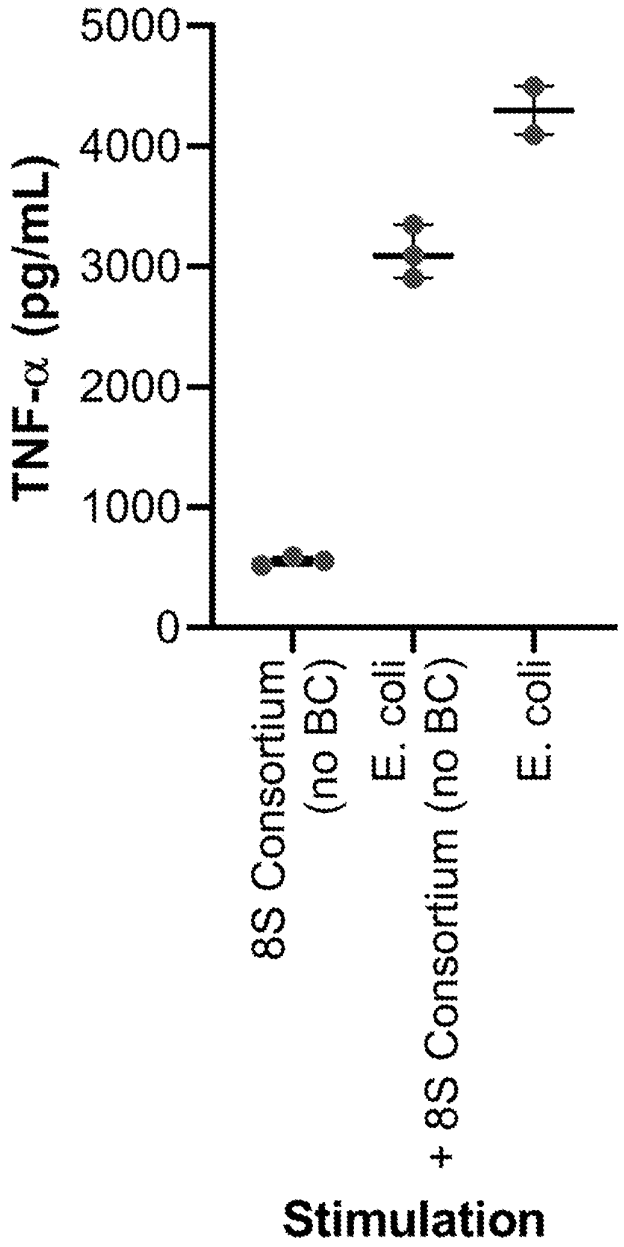

5000
4000
3000
2000
1000
0
TNF-α (pg/mL)
8S Consortium (no BC)
E. coli
E. coli + 8S Consortium (no BC)
Stimulation

FIG. 5B

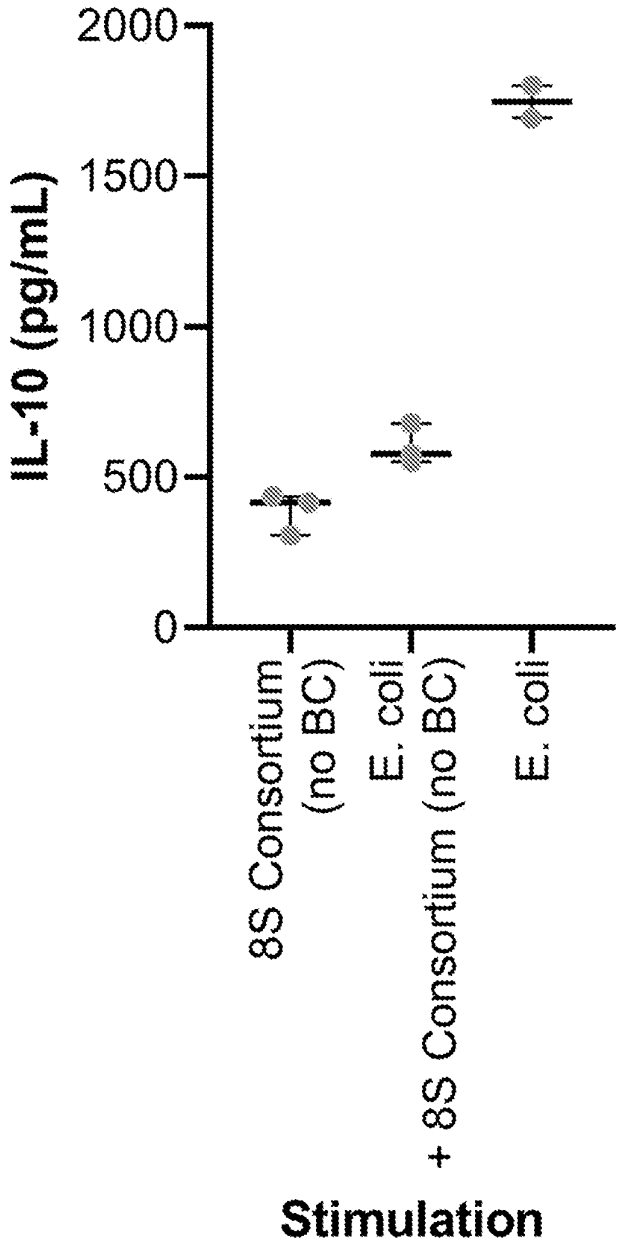

2000
1500
1000
500
0
IL-10 (pg/mL)
8S Consortium (no BC)
E. coli
E. coli + 8S Consortium (no BC)
Stimulation

FIG. 5C

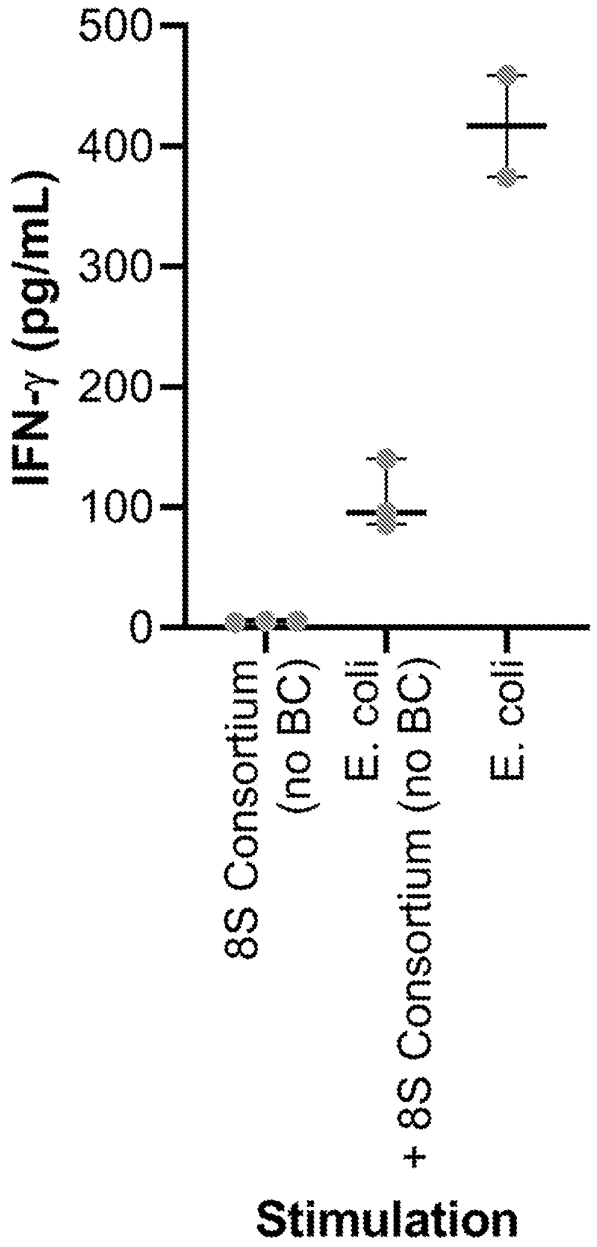

500
400
300
200
100
0
IFN-γ (pg/mL)
8S Consortium (no BC)
E. coli
E. coli + 8S Consortium (no BC)
Stimulation

FIG. 5D

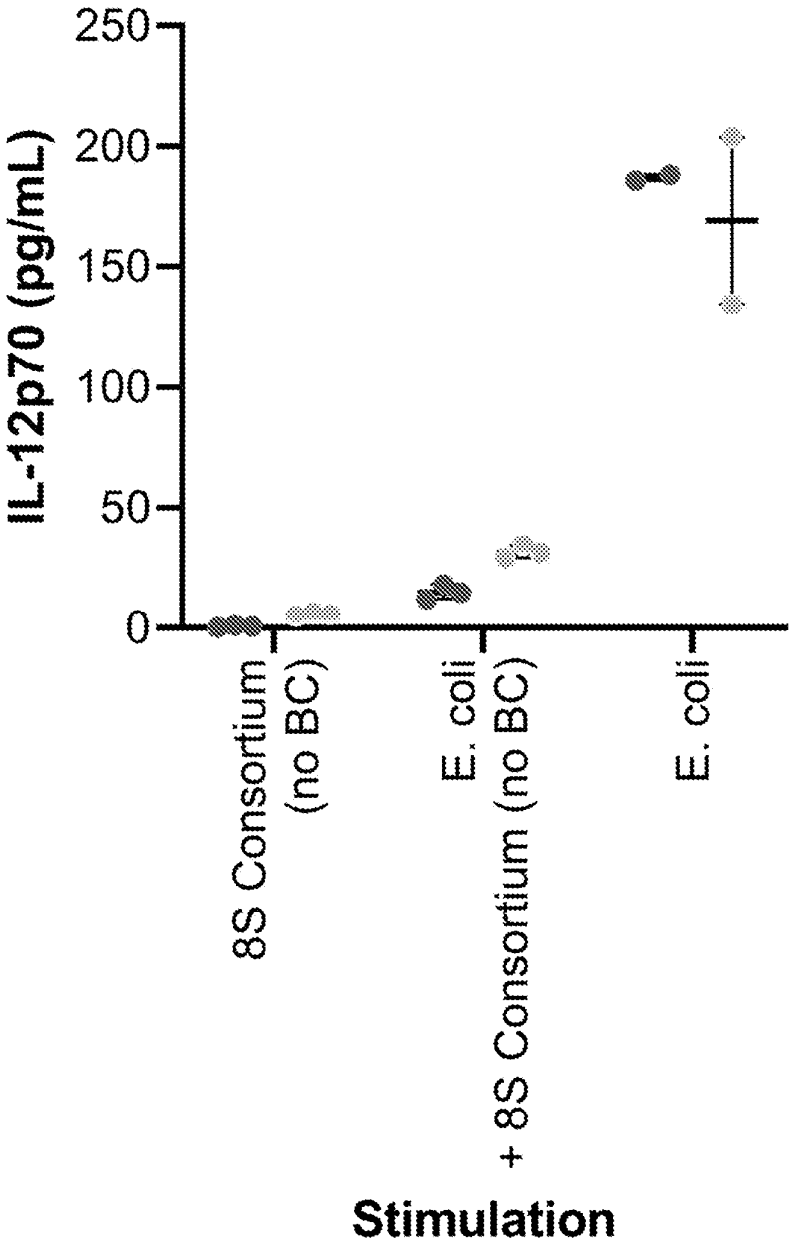
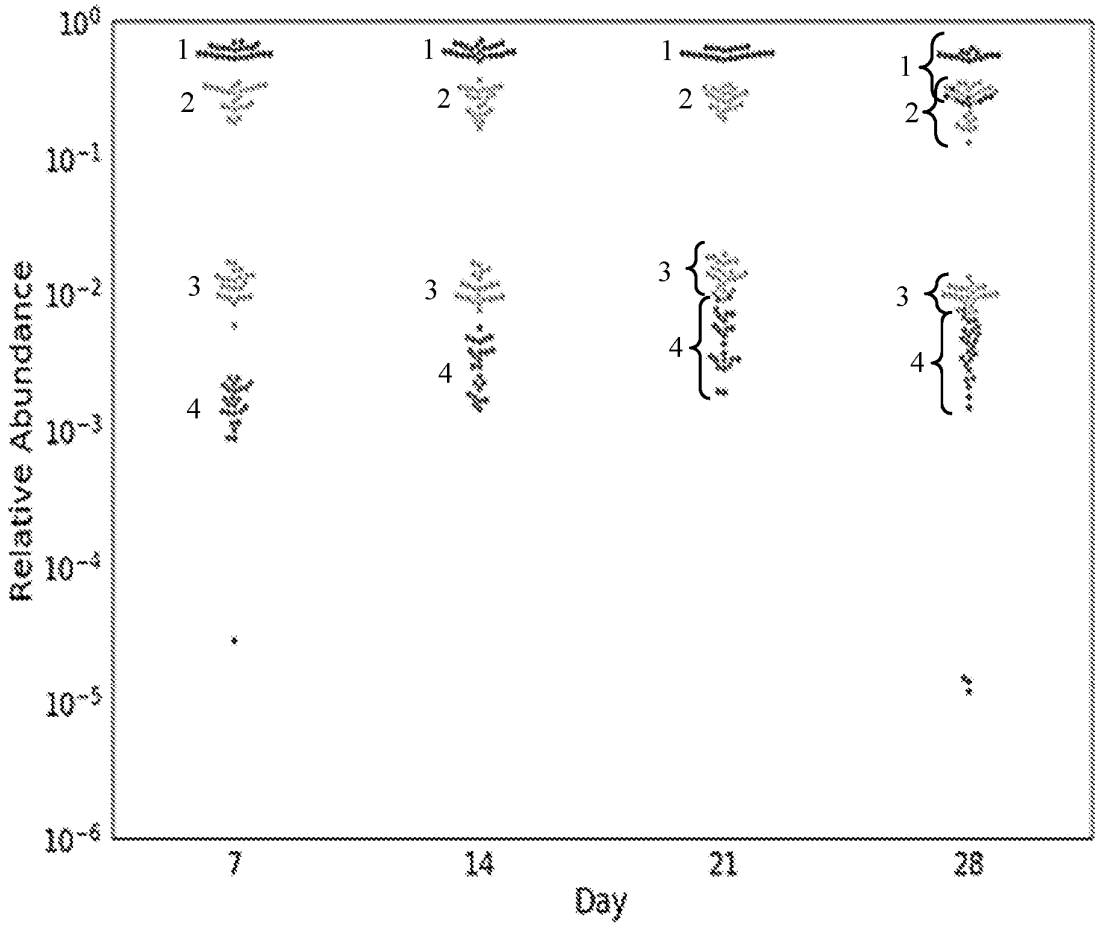

250
200
150
100
50
0
IL-12p70 (pg/mL)
8S Consortium (no BC)
E. coli + 8S Consortium (no BC)
E. coli
Stimulation

FIG. 5E



1 *Bacteroides cellulosilyticus* (PI00000316)

2 *Akkermansia muciniphila* (IS00007180)

3 *Odoribacter splanchnicus* (PI00000072)

4 *Alistipes shahii* (PI00000395)

FIG. 6