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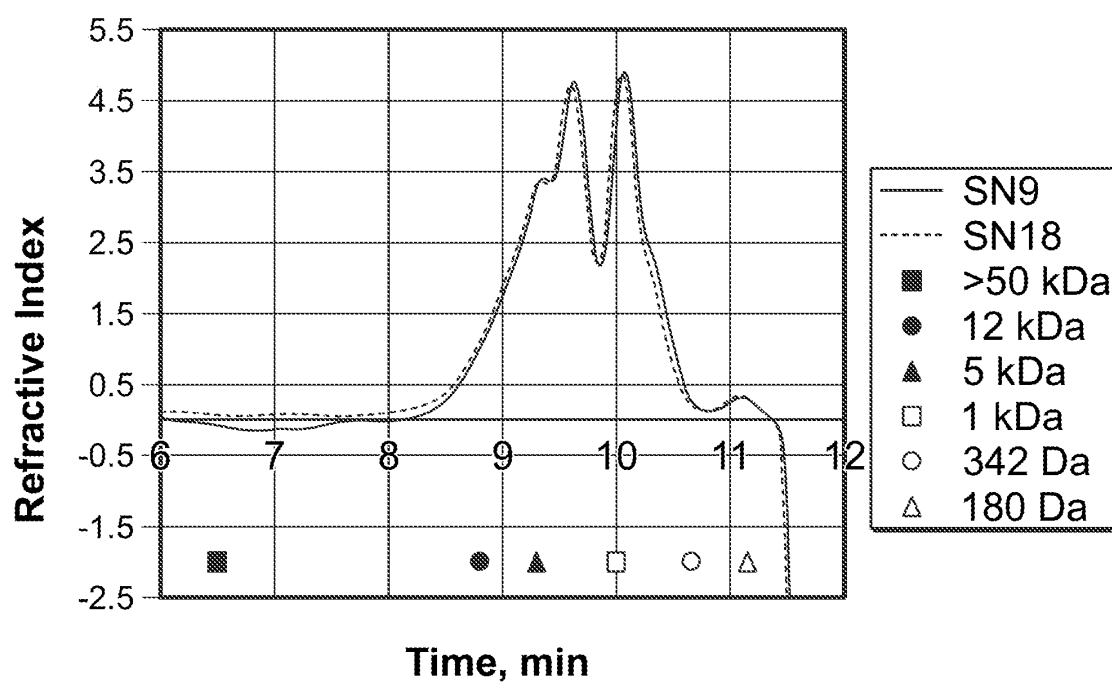


FIG. 1A

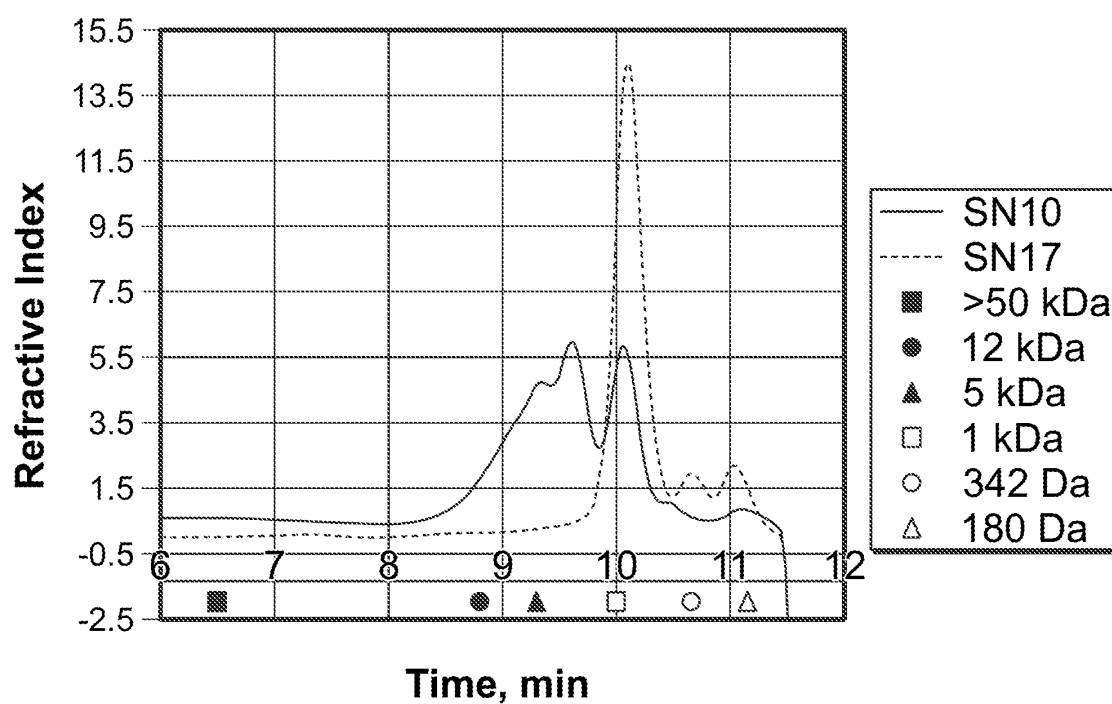


FIG. 1B

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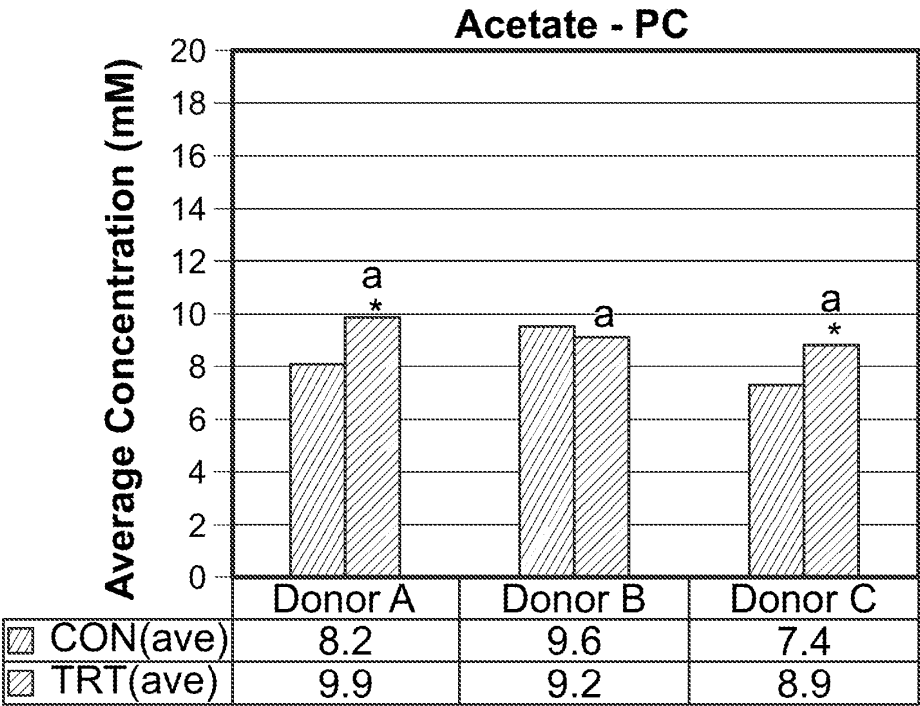


FIG. 2A

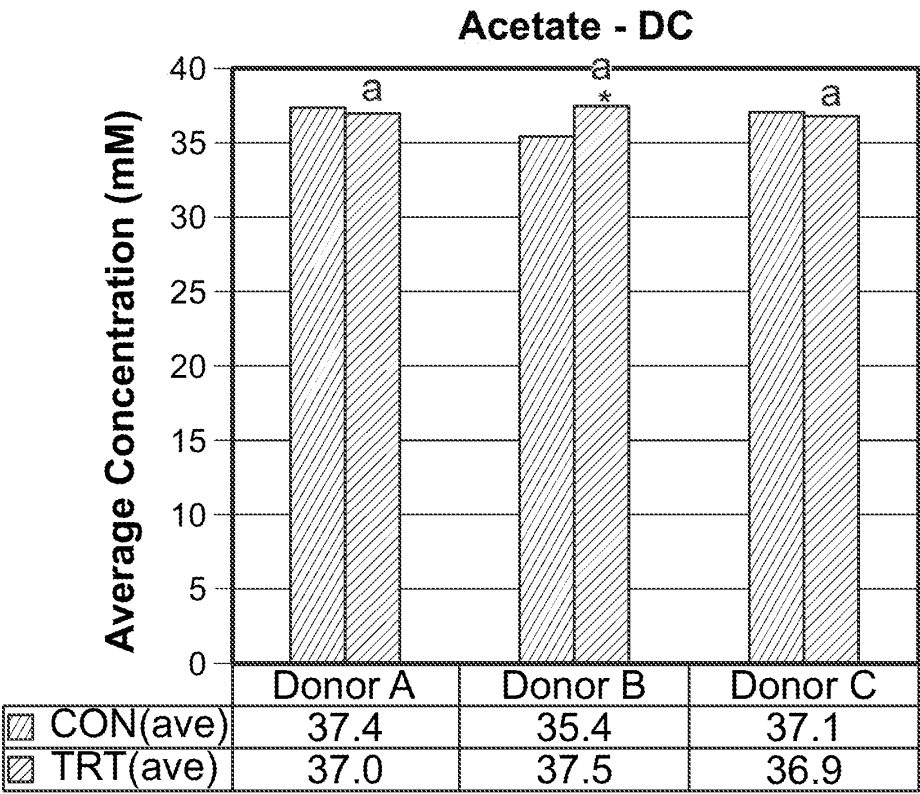


FIG. 2B

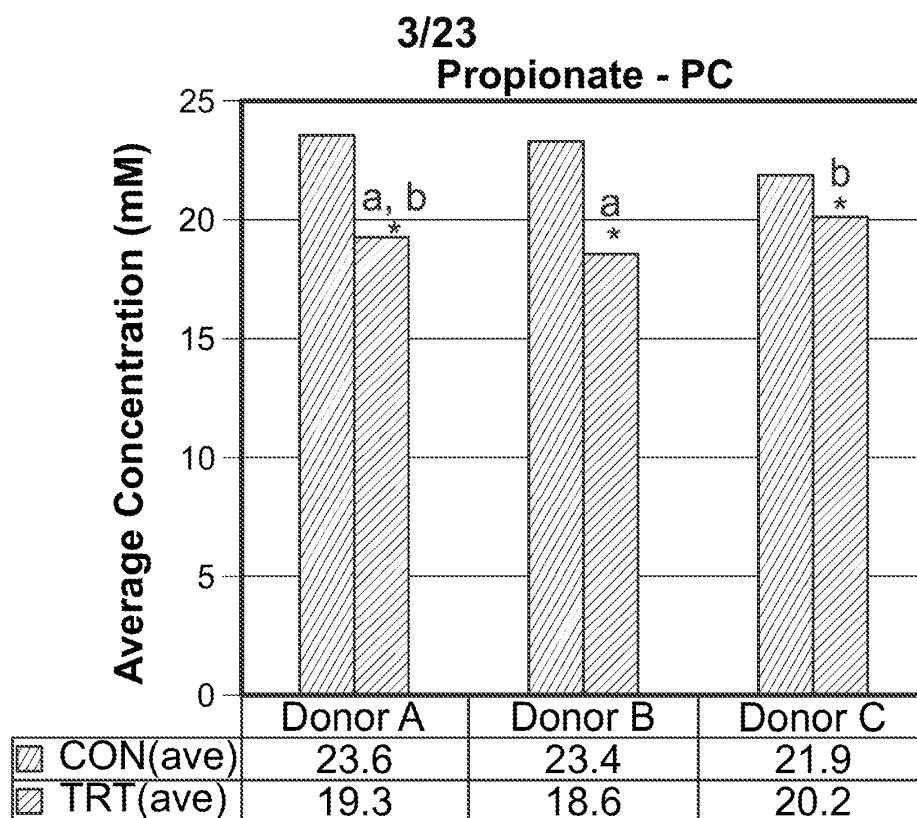


FIG. 3A

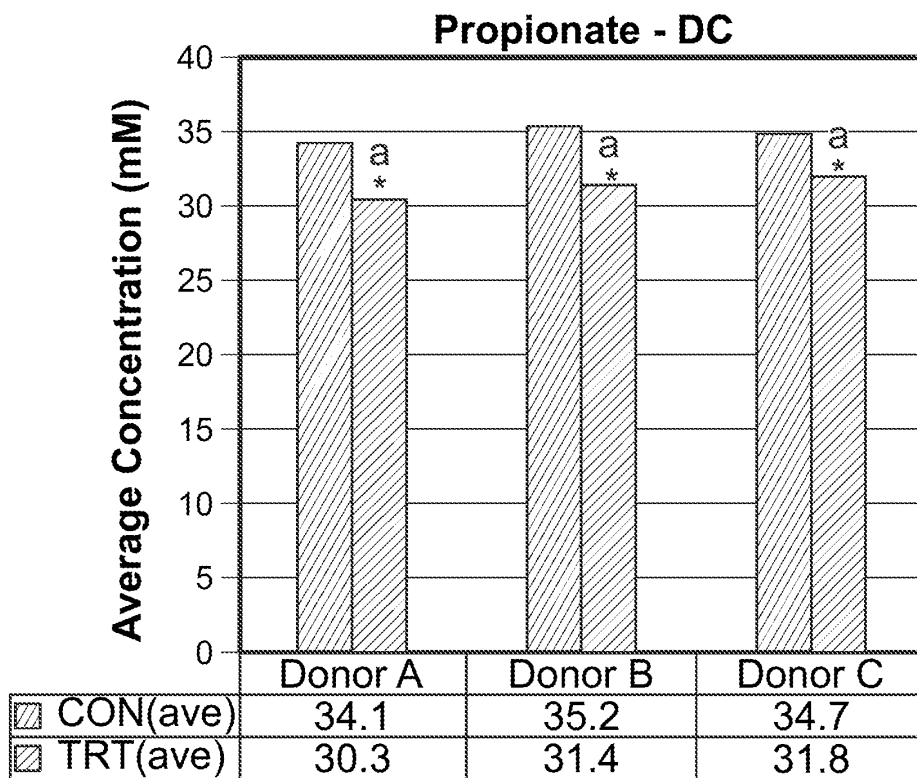


FIG. 3B

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Butyrate - PC

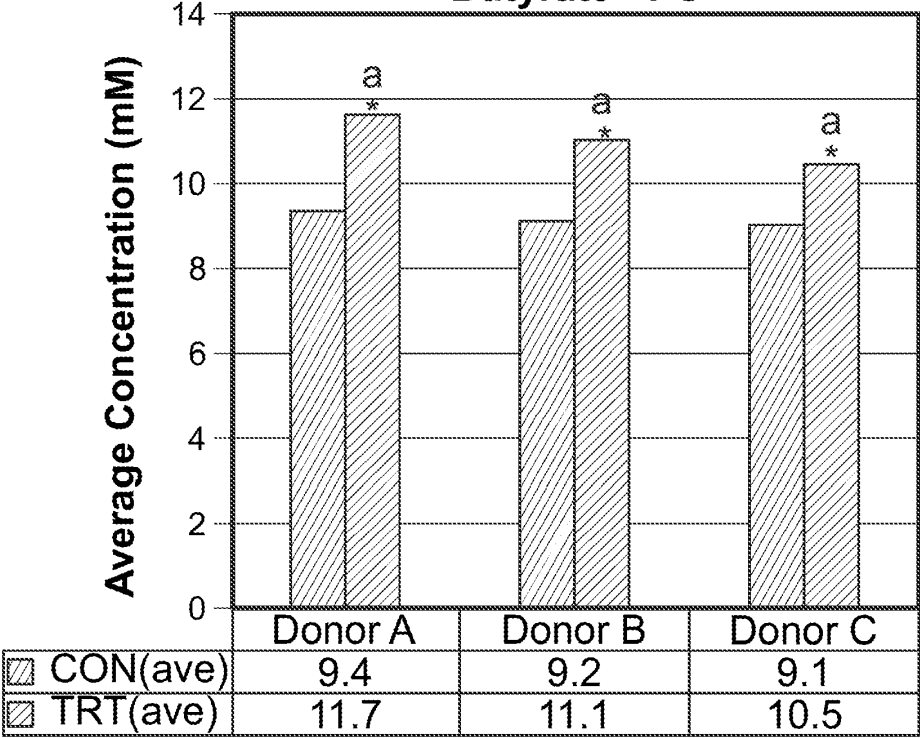


FIG. 4A

Butyrate - DC

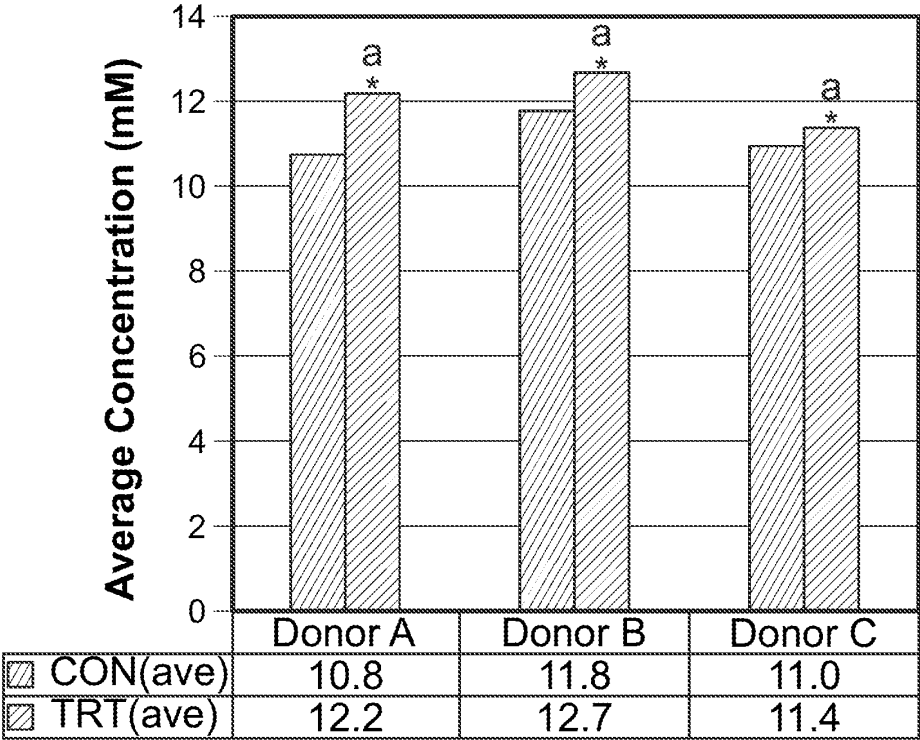


FIG. 4B

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Lactate - PC

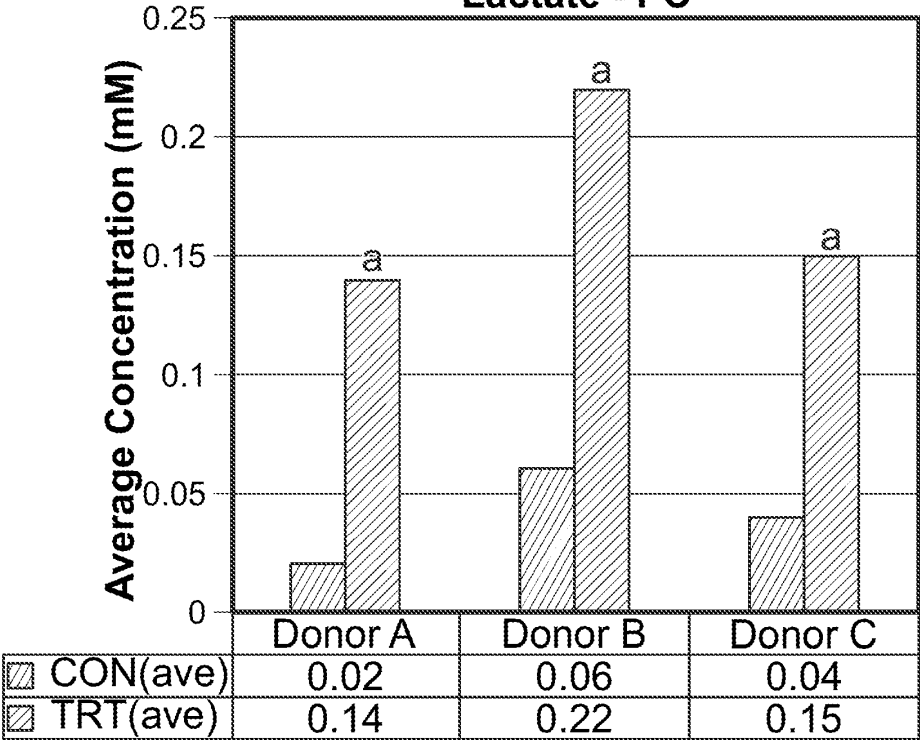


FIG. 5A

Lactate - DC

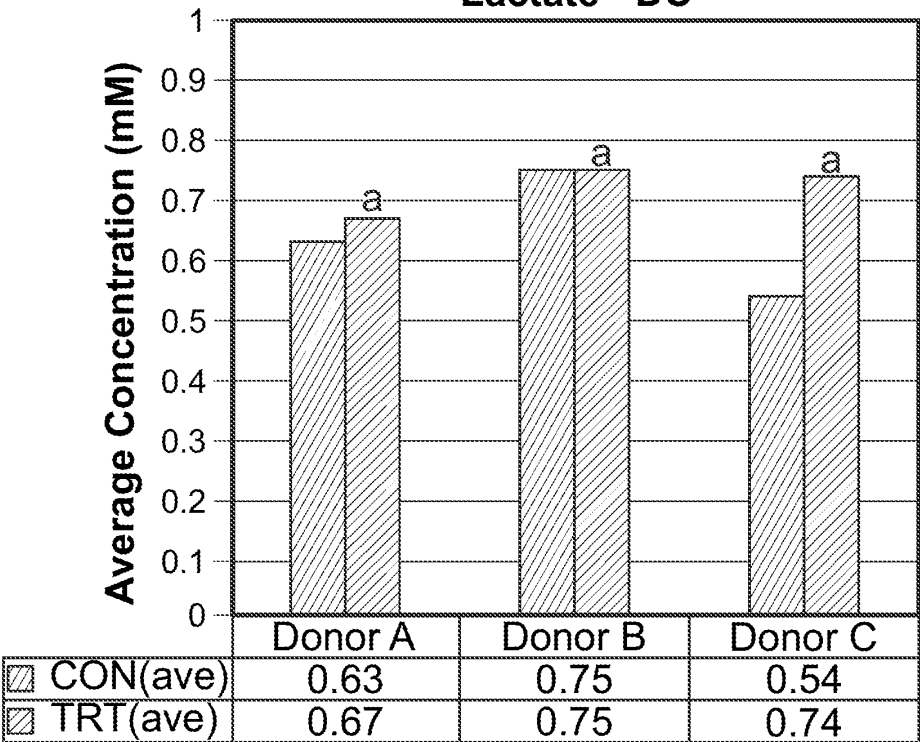


FIG. 5B

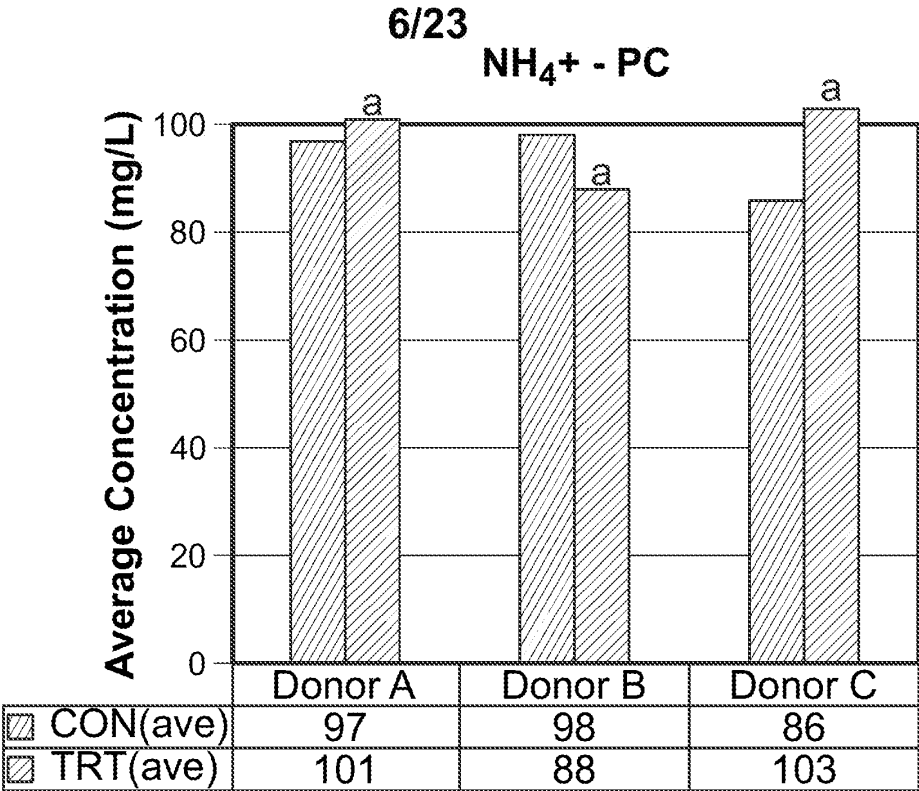


FIG. 6A

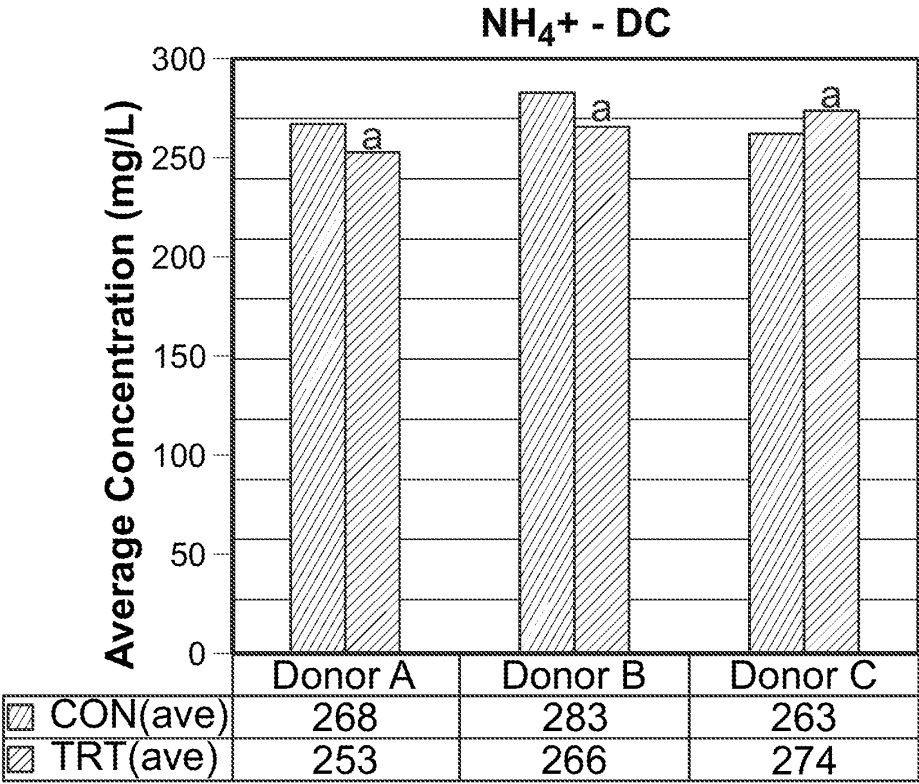


FIG. 6B

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Branched SCFA - PC

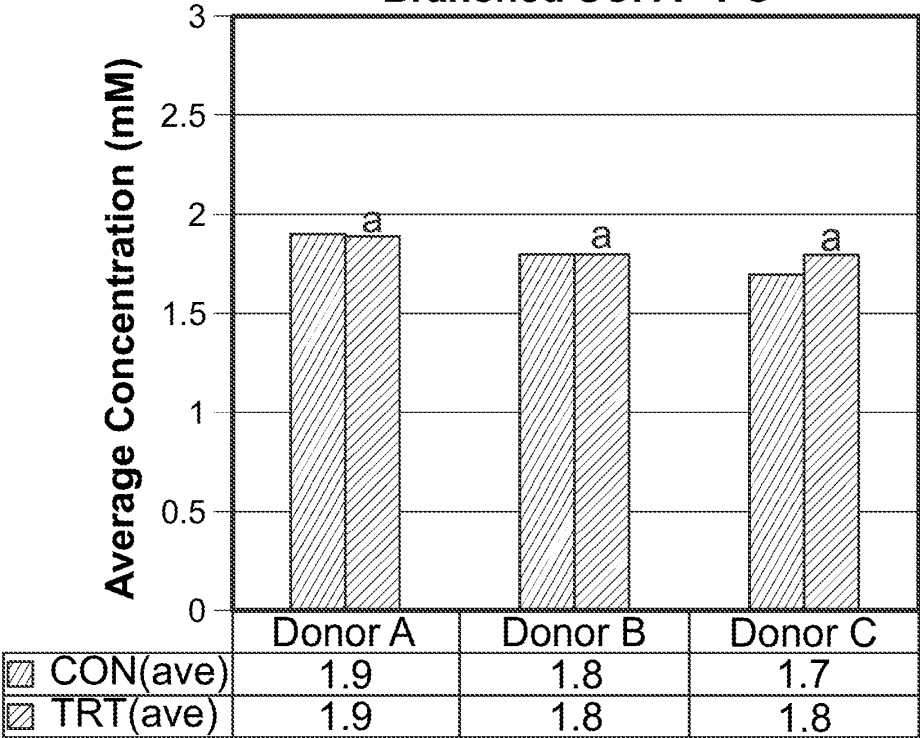


FIG. 7A

Branched SCFA - DC

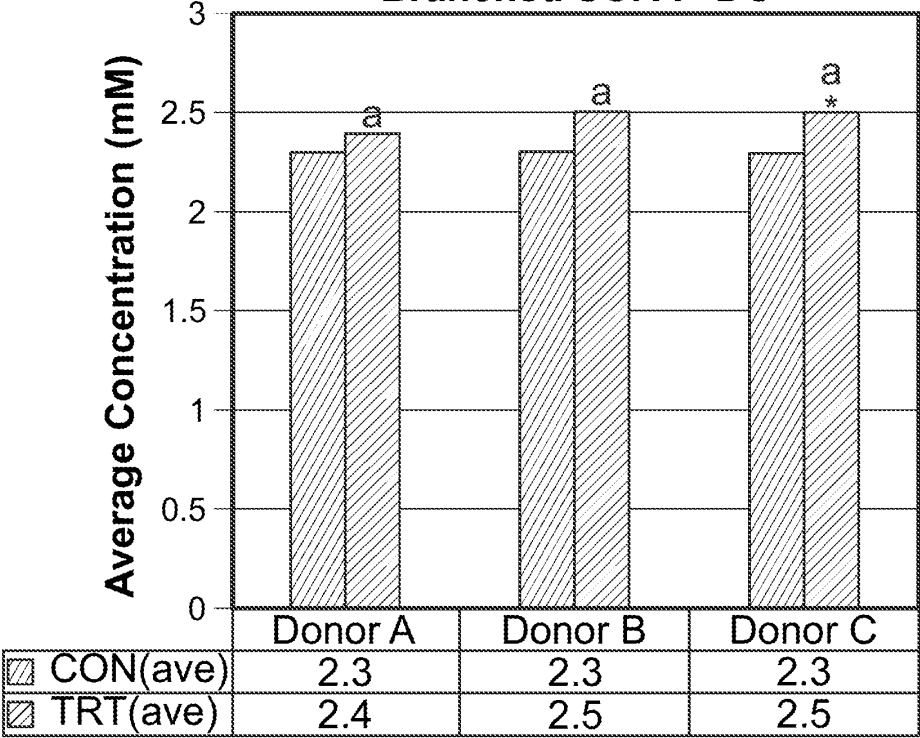


FIG. 7B

		Donor A						Donor B						Donor C					
		C1	C2	TR1	TR2	TR3		C1	C2	TR1	TR2	TR3		C1	C2	TR1	TR2	TR3	
Lumen	PC	4.3	5.1	3.7	3.8	3.9		4.9	4.9	3.7	4.4	3.9		3.7	5.8	5.3	7.3	4.4	
	DC	13.4	13.5	12.5	15.5	14.9		10.0	5.8	10.9	8.0	8.8		13.1	12.0	14.0	12.3	13.6	
Mucus	PC	3.8		11.2	5.3	6.6		4.4	2.9	3.5	4.8	5.2		3.3	3.4	9.9	5.4	11.8	
	DC	11.2	6.3	13.6	11.7	8.9		5.4	6.7	6.4	12.5	7.7		7.6	9.0	15.5	10.7	12.3	

FIG. 8

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	Donor A						Donor B						Donor C					
	C1	C2	TR1	TR2	TR3		C1	C2	TR1	TR2	TR3		C1	C2	TR1	TR2	TR3	
PC Lumen																		
Verrucomicrobia	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Synergistetes	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.1	0.0	0.3	
Proteobacteria	1.3	7.5	6.0	5.8	8.0		1.0	8.8	12.2	15.6	8.9		3.9	11.4	10.1	20.4	15.2	
Lentisphaerae	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Firmicutes	41.9	41.0	2.7	18.5	23.0		40.1	40.7	33.6	21.2	27.7		53.7	43.8	46.1	34.4	20.4	
Bacteroidetes	32.7	10.6	14.6	7.9	4.0		39.7	6.9	0.3	3.2	2.2		6.1	6.5	1.7	0.5	1.1	
Actinobacteria	24.1	40.9	57.7	67.8	64.9		19.2	43.5	53.9	60.0	61.1		36.3	38.3	42.0	44.7	63.1	
DC Lumen																		
Verrucomicrobia	1.2	0.8	1.0	1.5	1.3		0.1	0.1	0.1	0.0	0.0		0.1	0.0	0.0	0.0	0.0	
Synergistetes	7.6	6.2	20.7	15.9	12.4		13.0	16.7	20.5	13.7	17.4		6.7	7.8	16.1	11.8	18.8	
Proteobacteria	2.4	2.3	2.0	1.9	3.7		1.6	3.2	1.0	1.6	2.3		1.7	4.6	4.4	3.2	5.5	
Lentisphaerae	0.0	0.0	0.0	0.6	0.1		0.0	0.0	0.1	0.1	0.0		0.0	0.0	0.1	0.2	0.0	
Firmicutes	40.1	37.6	29.4	29.3	30.3		38.9	28.2	33.8	32.7	30.9		44.9	38.8	32.0	40.8	33.1	
Bacteroidetes	46.9	51.7	39.4	38.4	36.8		43.6	50.1	33.0	43.5	36.4		43.1	46.2	36.7	32.1	29.9	
Actinobacteria	1.6	1.2	7.4	11.5	15.3		2.7	1.7	11.4	8.2	12.9		3.4	2.4	10.6	11.9	12.7	
PC Mucus																		
Verrucomicrobia	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.1	0.0	
Synergistetes	0.0		0.0	0.0	0.4		0.0	0.0	0.0	0.1	0.0		0.0	0.0	0.4	38.5	3.2	
Proteobacteria	1.2		15.4	4.9	15.8		1.3	0.2	2.1	7.6	6.2		2.1	0.8	23.4	1.8	7.8	
Lentisphaerae	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.3	0.0	
Firmicutes	54.6		40.8	32.8	39.7		53.5	24.5	32.4	29.2	44.1		46.5	35.4	37.4	41.9	50.6	
Bacteroidetes	13.4		27.3	11.2	9.0		9.7	21.1	10.1	6.1	2.7		1.8	14.1	11.1	11.5	4.8	
Actinobacteria	30.8		16.5	51.1	35.1		35.4	54.2	55.5	56.9	46.9		49.6	49.7	27.7	5.6	33.6	
DC Mucus																		
Verrucomicrobia	1.8	0.2	0.0	0.7	0.2		0.1	0.0	0.0	0.0	0.0		0.1	0.0	0.0	0.0	0.0	
Synergistetes	23.9	37.4	18.8	21.3	27.7		38.5	35.7	36.6	21.4	26.7		27.8	27.6	17.1	24.9	17.7	
Proteobacteria	8.0	1.9	5.5	15.5	6.5		1.8	4.4	2.1	3.1	3.2		5.1	11.7	12.5	2.9	7.7	
Lentisphaerae	0.0	0.0	0.0	0.8	4.5		0.3	0.2	0.2	0.1	0.1		0.9	0.2	0.2	1.0	1.1	
Firmicutes	46.6	34.4	33.1	31.5	37.5		41.9	36.8	45.6	46.8	54.8		41.3	37.2	52.8	43.1	56.7	
Bacteroidetes	14.0	23.7	29.9	18.2	14.3		11.5	21.4	12.8	15.3	10.8		11.2	18.6	11.5	15.6	10.2	
Actinobacteria	5.7	2.3	12.7	12.0	9.3		5.6	1.3	2.5	13.0	4.2		13.3	4.6	5.8	12.4	6.5	

FIG. 9

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Phylum	Family	PC - Lumen														
		Donor A					Donor B					Donor C				
		C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3
Actinobacteria	Bifidobacteriaceae	22.6%	22.3%	45.4%	42.4%	42.9%	17.5%	25.2%	45.9%	40.4%	42.9%	34.0%	26.6%	27.3%	21.0%	41.1%
	Coriobacteriaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Microbacteriaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.2%	0.7%
	Micrococcaceae	1.5%	18.6%	11.3%	25.4%	22.0%	1.7%	18.3%	7.0%	19.3%	17.8%	2.3%	11.7%	14.6%	23.3%	21.1%
	Bacteroidaceae	32.7%	10.6%	14.6%	7.9%	4.0%	33.7%	6.9%	0.3%	3.2%	2.1%	6.1%	6.4%	1.7%	0.4%	1.1%
Bacteroidetes	Bacteroidales_S24-7_group	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Porphyromonadaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Prevotellaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Rikenellaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Acidaminococcaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Firmicutes	Christensenellaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Clostridiaceae_1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	Enterococcaceae	0.1%	0.0%	0.3%	0.2%	0.2%	0.0%	0.1%	0.4%	0.4%	0.3%	0.2%	0.1%	0.7%	0.9%	1.0%
	Erysipelotrichaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Eubacteriaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Family XIII	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lachnospiraceae	8.4%	0.8%	1.0%	0.6%	1.2%	5.6%	0.1%	1.1%	0.3%	0.6%	0.9%	0.6%	0.2%	0.1%	1.0%
	Ruminococcaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Veillonellaceae	33.4%	40.1%	20.4%	17.7%	21.7%	34.4%	40.5%	32.9%	20.5%	26.9%	52.6%	43.1%	45.1%	24.3%	18.4%
	Lentisphaerae	Victivallaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Proteobacteria	Alcaligenaceae	0.0%	0.4%	0.1%	0.0%	0.3%	0.1%	1.0%	0.7%	0.7%	0.6%	0.3%	1.4%	0.6%	1.8%	0.8%
	Desulfotribionaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Enterobacteriaceae	1.1%	1.2%	4.5%	2.5%	3.0%	0.1%	0.5%	2.0%	2.2%	1.8%	0.6%	0.9%	2.4%	3.6%	1.2%
	Pseudomonadaceae	0.1%	5.8%	1.2%	2.4%	2.3%	0.3%	5.9%	8.5%	10.9%	3.7%	2.7%	8.0%	6.3%	10.4%	5.7%
	Rhodospirillaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Synergistetes	Xanthomonadaceae	0.1%	0.1%	0.2%	0.8%	2.3%	0.5%	1.4%	1.0%	1.9%	2.8%	0.2%	1.1%	0.8%	4.6%	1.5%
	Synergistaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%
Verrucomicrobia	Verrucomicrobiaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

FIG 10

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Phylum	Family	DC - Lumen														
		Donor A					Donor B					Donor C				
		C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3
Actinobacteria	Bifidobacteriaceae	15%	0.5%	5.9%	6.4%	11.6%	2.5%	1.3%	10.5%	5.4%	11.1%	3.3%	2.0%	7.1%	7.7%	8.8%
	Coriobacteriaceae	0.1%	0.1%	0.0%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%
	Microbacteriaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%
	Micrococaceae	0.1%	0.5%	1.5%	5.0%	3.6%	0.0%	0.3%	0.7%	2.6%	1.6%	0.1%	0.5%	3.4%	4.1%	3.5%
	Bacteroidaceae	33.8%	46.1%	29.7%	33.4%	26.3%	36.5%	45.2%	27.6%	39.2%	29.3%	32.7%	36.5%	29.3%	27.7%	23.2%
Bacteroidetes	Bacteroidales_S24-7_group	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	1.8%	0.1%	0.1%	0.0%
	Porphyromonadaceae	12.6%	4.8%	9.4%	4.7%	9.4%	6.9%	4.3%	4.2%	3.7%	6.5%	8.9%	5.0%	3.8%	3.1%	6.1%
	Prevotellaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.2%	0.1%	0.1%	0.4%	0.7%	0.9%	0.2%
	Rikenellaceae	0.6%	1.0%	0.4%	1.1%	1.1%	0.2%	0.4%	0.6%	0.4%	0.5%	1.4%	2.6%	2.7%	0.4%	0.3%
	Acidaminococcaceae	1.3%	1.1%	1.8%	1.1%	2.9%	1.0%	1.0%	1.8%	1.1%	2.4%	1.5%	1.6%	1.9%	0.9%	2.7%
Firmicutes	Christensenellaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Clostridiaceae_1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Enterococcaceae	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.1%	0.3%
	Erysipelotrichaceae	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.0%
	Eubacteriaceae	0.0%	0.0%	0.1%	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.4%
	Family XIII	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
	Lachnospiraceae	29.8%	30.0%	21.3%	22.5%	19.7%	32.5%	19.2%	23.5%	22.4%	23.3%	36.1%	30.6%	25.0%	35.3%	24.8%
	Ruminococcaceae	1.6%	2.1%	2.7%	3.3%	0.9%	1.0%	1.8%	5.8%	7.3%	0.9%	0.4%	0.3%	0.6%	1.8%	0.6%
	Veillonellaceae	7.3%	4.3%	3.5%	1.7%	6.3%	4.2%	6.0%	1.6%	1.8%	4.0%	6.7%	6.1%	4.2%	1.4%	4.1%
	Vitellivaceae	0.0%	0.0%	0.0%	0.6%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%
Lentisphaerae	Alcaligenaceae	0.5%	0.2%	0.3%	0.5%	0.7%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.4%	0.4%	0.3%	0.6%
	Desulfotribionaceae	0.3%	0.3%	0.3%	0.2%	0.7%	0.6%	0.2%	0.3%	0.1%	0.7%	0.2%	0.2%	0.2%	0.1%	0.5%
	Enterobacteriaceae	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.3%	0.7%
	Pseudomonadaceae	1.5%	1.8%	1.3%	0.9%	2.1%	0.8%	0.9%	0.4%	1.0%	1.2%	1.2%	3.4%	3.0%	2.2%	3.3%
	Rhodospirillaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.0%	0.2%	0.5%	0.1%	0.0%
Proteobacteria	Xanthomonadaceae	0.0%	0.0%	0.0%	0.2%	0.0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.0%	0.2%	0.1%	0.3%	0.5%
	Synergistaceae	7.6%	6.2%	20.7%	15.9%	12.4%	13.0%	16.7%	20.5%	13.7%	17.4%	6.7%	7.8%	16.1%	11.8%	18.8%
	Verrucomicrobia	1.2%	0.8%	1.0%	1.5%	1.3%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%

FIG. 11

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Phylum	Family	PC - Mucus														
		Donor A					Donor B					Donor C				
		C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3
Actinobacteria	Bifidobacteriaceae	30.4%		13.5%	37.3%	29.6%	34.8%	53.8%	49.9%	39.9%	38.5%	48.8%	49.4%	23.0%	4.7%	26.6%
	Coriobacteriaceae	0.0%		0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.8%	1.1%
	Microbacteriaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.6%
	Micrococcaceae	0.4%		3.0%	13.8%	5.2%	0.6%	0.4%	5.5%	17.0%	7.9%	0.7%	0.3%	4.7%	0.1%	5.2%
	Bacteroidaceae	13.4%		27.3%	11.2%	8.9%	9.5%	21.1%	9.9%	6.0%	2.6%	1.7%	14.0%	10.8%	6.5%	3.6%
Bacteroidetes	Bacteroidales_S24-7_group	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
	Porphyromonadaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	4.0%	1.2%
	Prevotellaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Rikenellaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.0%
	Acidaminococcaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	1.5%
Firmicutes	Christensenellaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Clostridiaceae_1	0.0%		3.5%	0.0%	1.5%	0.0%	0.0%	1.3%	0.2%	0.2%	0.2%	0.0%	0.1%	1.0%	3.8%
	Enterococcaceae	0.1%		3.4%	0.7%	2.7%	0.0%	0.0%	0.1%	0.4%	0.3%	0.0%	0.0%	1.3%	0.1%	2.1%
	Erysipelotrichaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
	Eubacteriaceae	0.0%		0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lentisphaerae	Family XIII	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
	Lachnospiraceae	38.2%		20.2%	16.0%	25.8%	20.7%	3.9%	0.5%	4.0%	18.0%	4.6%	1.3%	6.2%	35.9%	24.5%
	Ruminococcaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	0.1%
	Veillonellaceae	16.3%		13.6%	16.1%	9.5%	32.8%	20.6%	30.5%	24.6%	25.5%	41.6%	34.1%	29.8%	1.3%	18.5%
	Victivallaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%
Proteobacteria	Alcaligenaceae	0.0%		0.0%	0.1%	0.0%	0.6%	0.0%	0.6%	0.6%	0.1%	0.3%	0.6%	0.9%	0.2%	0.2%
	Desulfotribionaceae	0.0%		0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.1%
	Enterobacteriaceae	1.0%		15.0%	2.7%	9.8%	0.1%	0.1%	0.3%	3.1%	3.4%	0.5%	0.0%	11.9%	0.6%	6.1%
	Pseudomonadaceae	0.2%		0.2%	1.4%	5.5%	0.1%	0.0%	0.8%	2.7%	1.5%	1.0%	0.2%	7.8%	0.3%	0.7%
	Rhodospirillaceae	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Synergistetes	Xanthomonadaceae	0.0%		0.1%	0.4%	0.0%	0.0%	0.0%	0.1%	1.0%	1.1%	0.0%	0.0%	2.2%	0.1%	0.5%
	Synergistaceae	0.0%		0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.4%	38.5%	3.2%
	Verrucomicrobia	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%

FIG. 12

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Phylum	Family	DC - Mucus														
		Donor A					Donor B					Donor C				
		C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3	C1	C2	TR1	TR2	TR3
Actinobacteria	Bifidobacteriaceae	3.3%	0.1%	8.6%	8.6%	7.8%	4.7%	1.0%	1.4%	0.1%	2.0%	0.4%	3.6%	4.6%	0.3%	4.5%
	Coriobacteriaceae	2.3%	0.4%	0.0%	0.2%	0.2%	0.8%	0.2%	0.9%	0.4%	0.1%	2.9%	0.8%	0.8%	0.2%	0.7%
	Microbacteriaceae	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
	Micrococcaceae	0.1%	0.1%	3.5%	3.2%	1.3%	0.1%	0.1%	0.2%	2.5%	1.0%	0.1%	0.1%	0.4%	1.9%	1.2%
	Bacteroidaceae	11.4%	20.2%	23.2%	16.5%	11.7%	6.5%	12.7%	7.2%	12.3%	5.3%	7.3%	13.4%	7.5%	12.7%	4.3%
Bacteroidetes	Bacteroidales_S24-7_group	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.3%	0.3%	0.4%	0.1%	0.1%	0.0%	0.2%	0.3%
	Porphyromonadaceae	1.9%	2.1%	6.1%	1.1%	1.9%	4.0%	7.6%	4.2%	2.1%	4.4%	2.5%	3.4%	2.9%	1.8%	4.7%
	Prevotellaceae	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
	Rikenellaceae	0.8%	1.4%	0.3%	0.7%	0.7%	0.8%	0.7%	0.9%	0.3%	0.6%	1.3%	1.6%	1.1%	0.6%	0.8%
	Acidaminococcaceae	1.1%	1.5%	2.7%	0.9%	0.7%	0.8%	1.6%	1.7%	1.6%	1.6%	1.1%	0.7%	1.3%	1.5%	1.6%
Firmicutes	Christensenellaceae	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.5%	0.1%	0.0%	0.0%	0.0%	0.2%
	Clostridiaceae_1	4.0%	1.2%	0.0%	6.1%	14.3%	1.0%	2.0%	3.5%	0.6%	5.2%	1.1%	2.6%	10.1%	0.8%	5.6%
	Enterococcaceae	0.6%	0.0%	0.3%	0.8%	3.9%	0.1%	1.1%	0.1%	0.2%	0.5%		0.2%	4.7%	5.8%	4.0%
	Erysipelotrichaceae	0.8%	0.3%	0.0%	0.2%	0.1%	0.1%	0.3%	0.3%	0.2%	0.1%	0.1%	0.1%	0.2%	0.0%	0.1%
	Eubacteriaceae	0.0%	0.0%	0.4%	1.1%	2.1%	0.0%	0.0%	0.0%	0.0%	0.8%	0.2%	0.8%	1.2%	1.6%	3.7%
	Family XIII	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.1%	0.7%	0.3%	0.3%	0.3%	0.1%	0.2%
	Lachnospiraceae	36.1%	25.8%	24.8%	18.3%	13.6%	35.9%	28.0%	34.2%	28.6%	39.1%	34.3%	29.4%	32.0%	29.5%	39.4%
	Ruminococcaceae	2.8%	4.4%	0.6%	3.0%	2.4%	2.3%	2.4%	4.4%	11.5%	5.9%	1.9%	1.7%	2.3%	2.6%	2.3%
	Veillonellaceae	1.1%	0.7%	4.1%	0.8%	0.2%	1.3%	1.3%	1.4%	4.1%	0.2%	2.1%	1.3%	0.5%	1.1%	0.5%
	Vitellivaceae	0.0%	0.0%	0.0%	0.8%	4.5%	0.3%	0.2%	0.2%	0.1%	0.1%	0.9%	0.2%	0.2%	1.0%	1.1%
Lentisphaerae	Alcaligenaceae	1.0%	0.4%	0.6%	0.2%	0.5%	0.2%	0.2%	0.2%	0.2%	0.5%	0.6%	0.4%	0.2%	0.3%	0.3%
	Desulfotribionaceae	0.9%	0.9%	0.5%	0.2%	0.4%	0.7%	1.3%	1.3%	0.5%	0.6%	0.7%	1.0%	0.4%	0.2%	0.4%
	Enterobacteriaceae	1.9%	0.5%	0.7%	1.4%	3.0%	0.6%	2.2%	0.3%	0.8%	0.3%	3.2%	8.3%	7.9%	1.2%	0.7%
	Pseudomonadaceae	4.1%	0.2%	3.3%	3.5%	2.7%	0.3%	0.1%	0.0%	1.2%	1.5%	0.4%	2.0%	3.7%	0.8%	6.0%
	Rhodospirillaceae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%	0.3%	0.0%	0.1%	0.1%	0.2%	0.3%	0.1%
Proteobacteria	Xanthomonadaceae	0.0%	0.0%	0.5%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
	Synergistaceae	23.9%	37.4%	18.8%	21.3%	27.7%	38.5%	35.7%	36.6%	21.4%	26.7%	27.8%	27.6%	17.1%	24.9%	17.7%
	Verrucomicrobia	1.8%	0.2%	0.0%	0.6%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%

FIG. 13

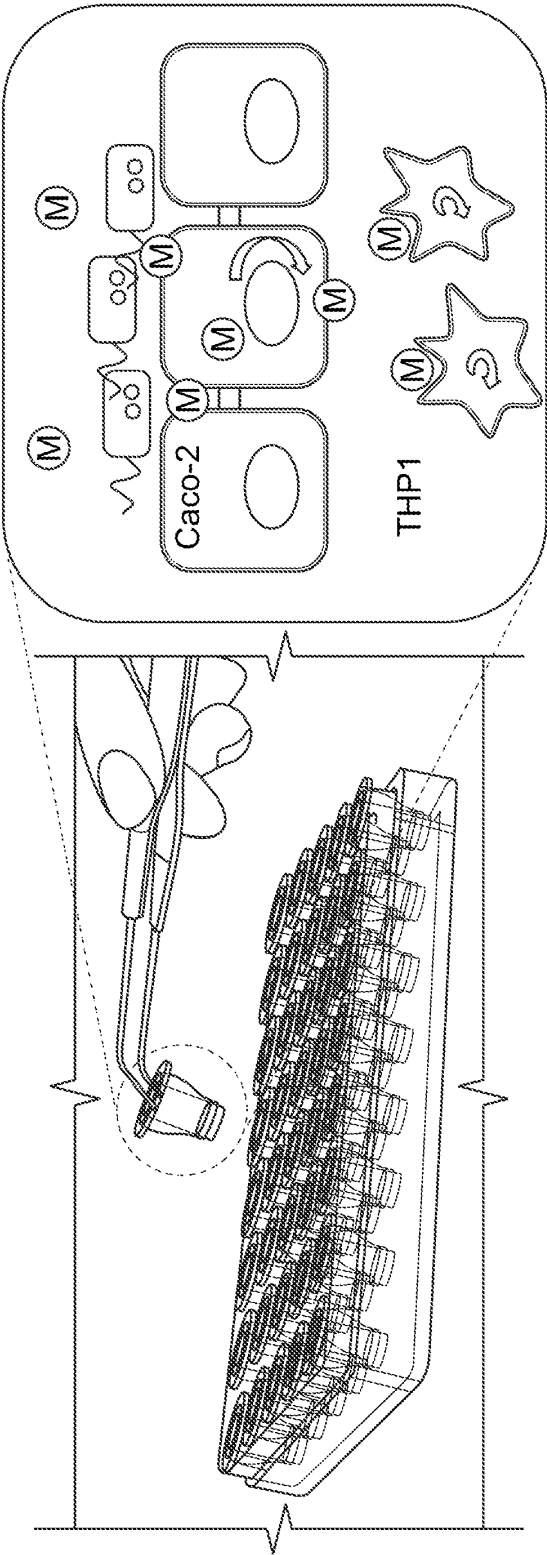


FIG. 14

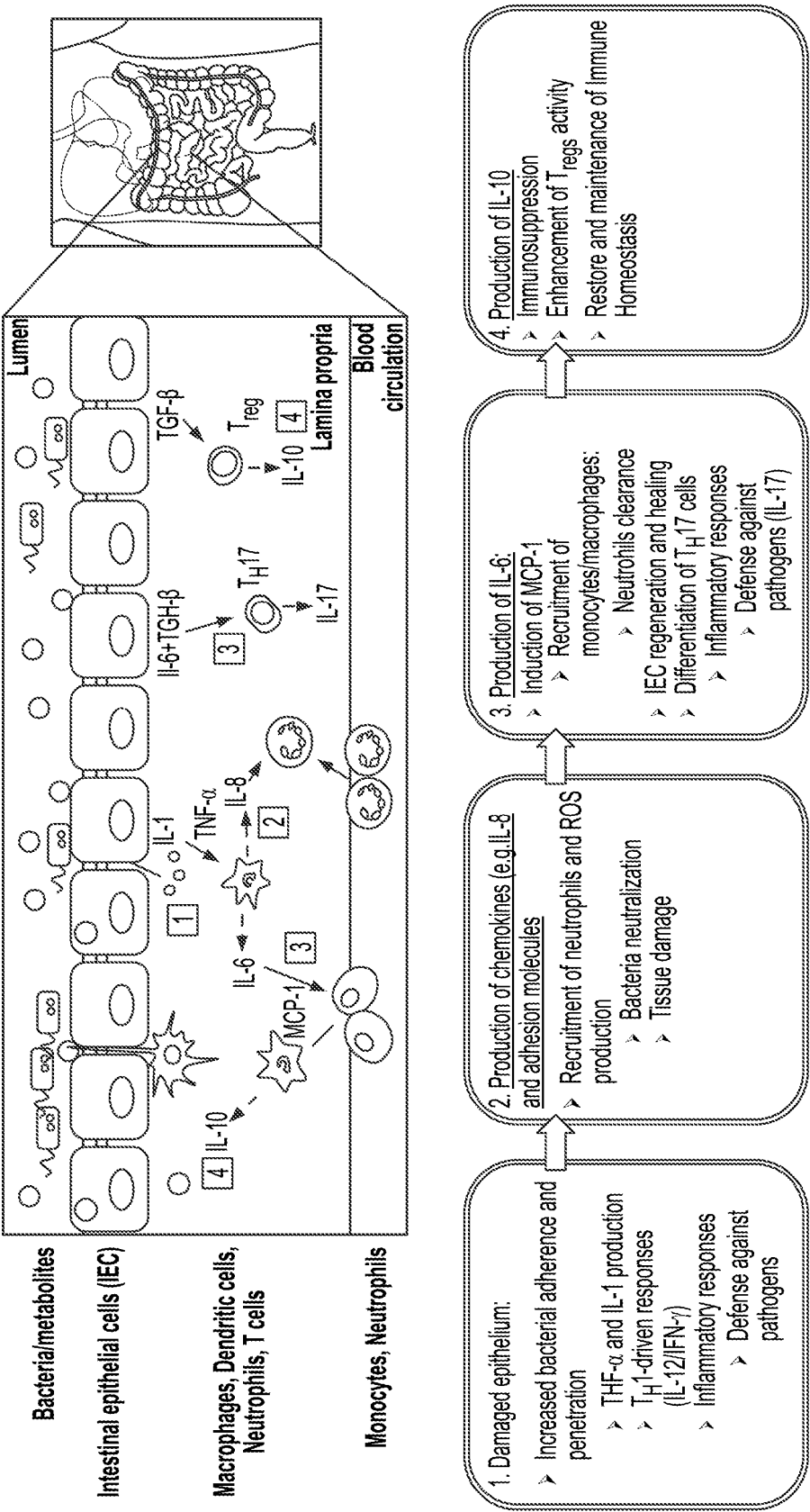


FIG. 15

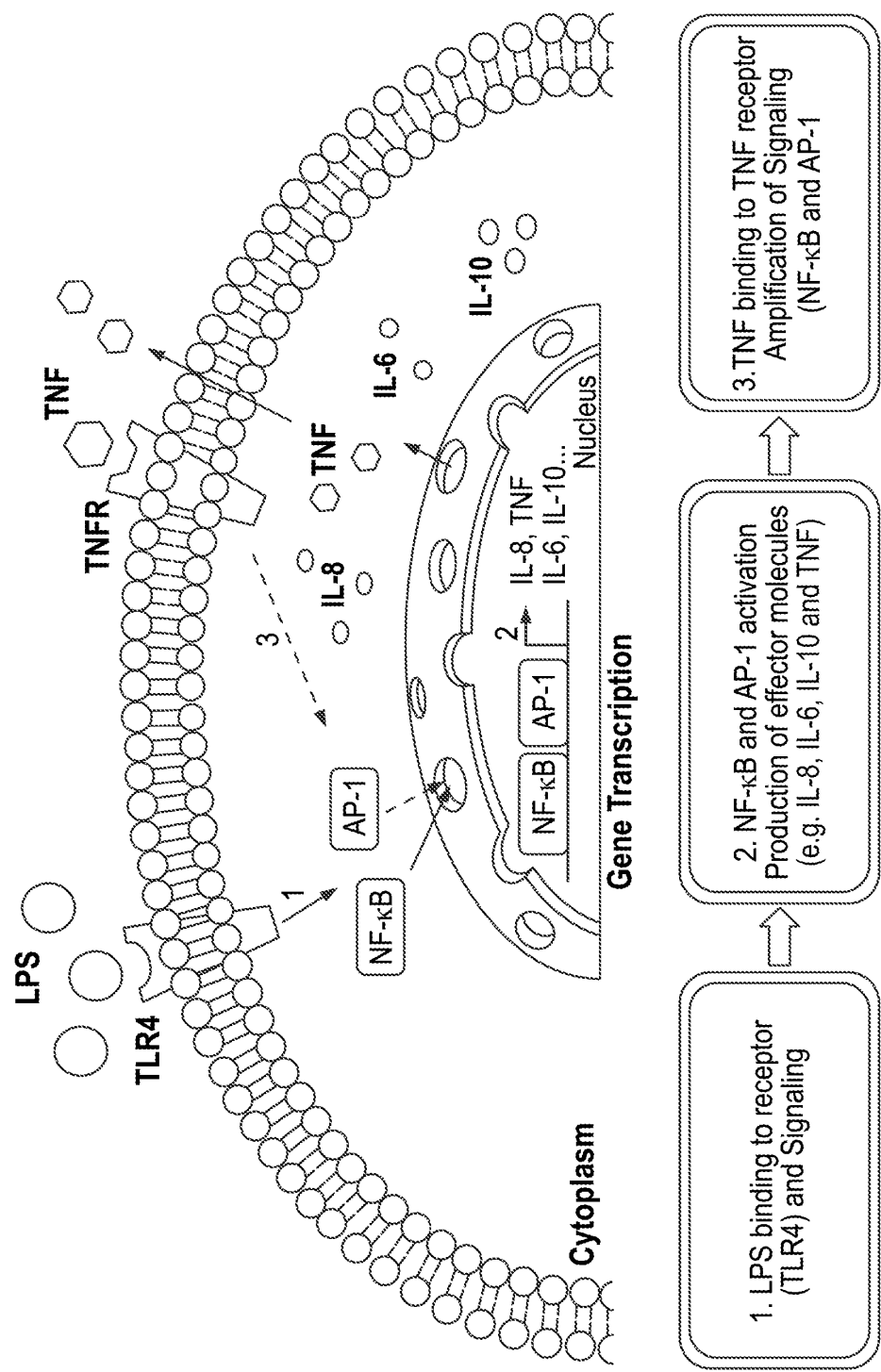


FIG. 16

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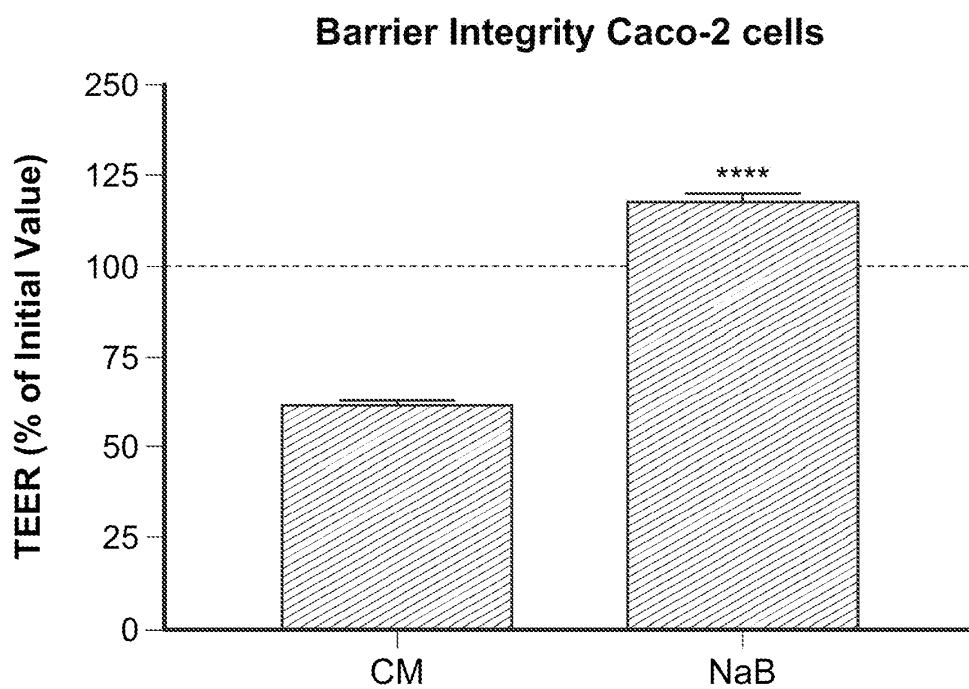


FIG. 17

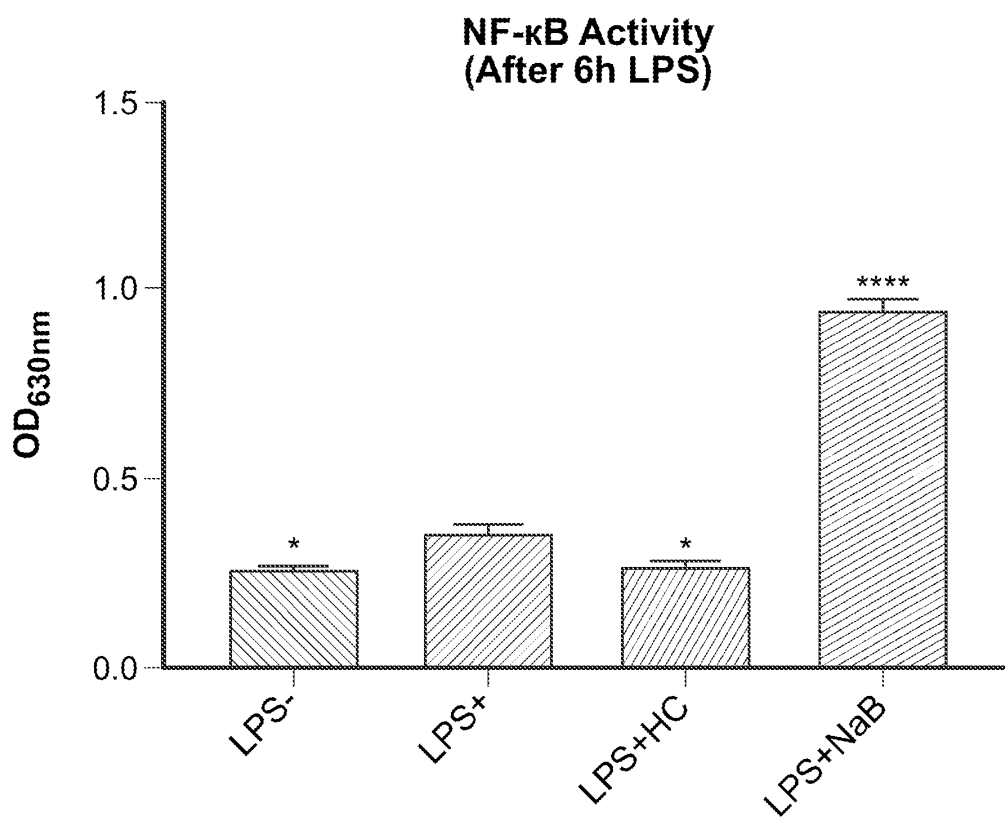


FIG. 18

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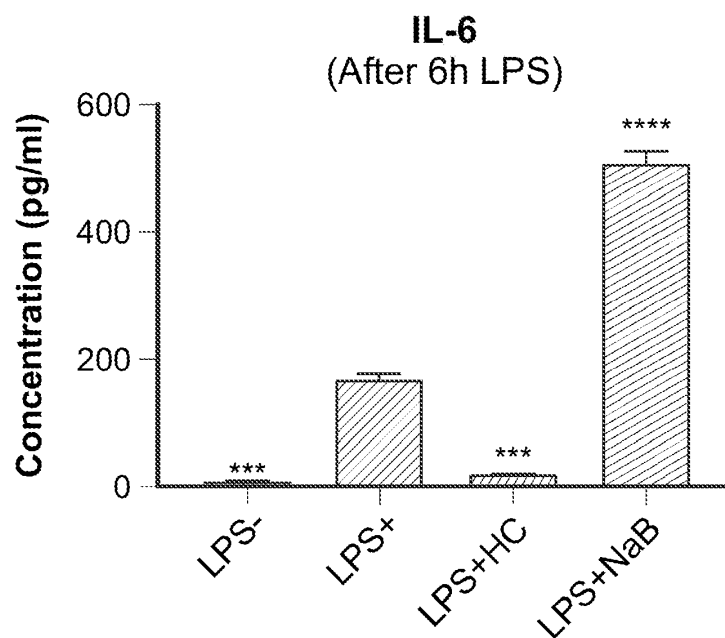


FIG. 19A

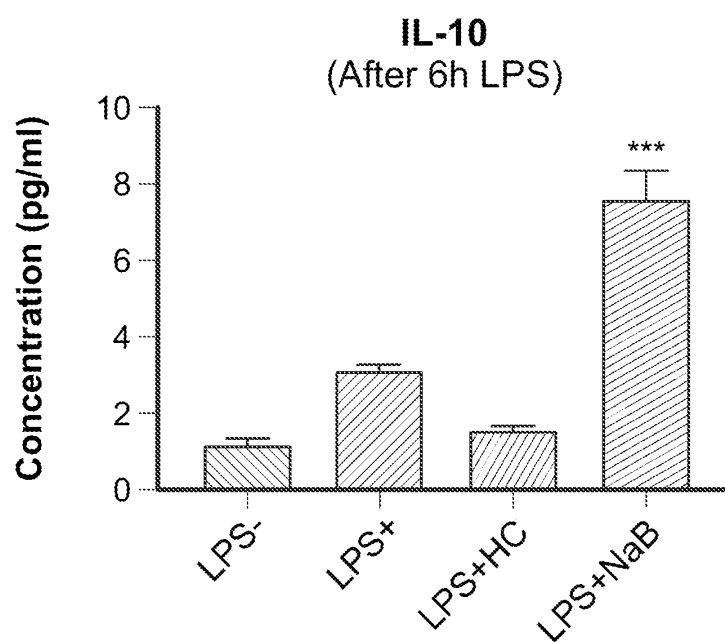


FIG. 19B

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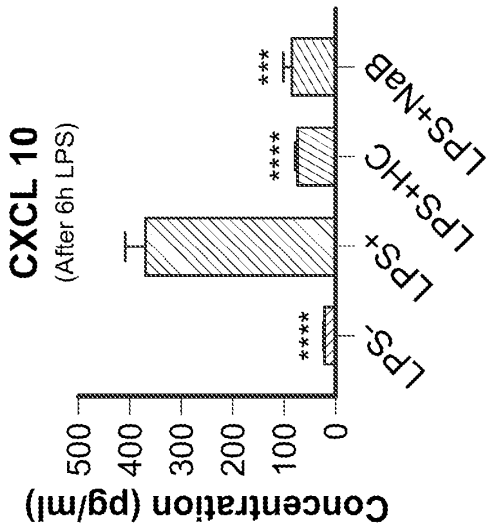


FIG. 20C

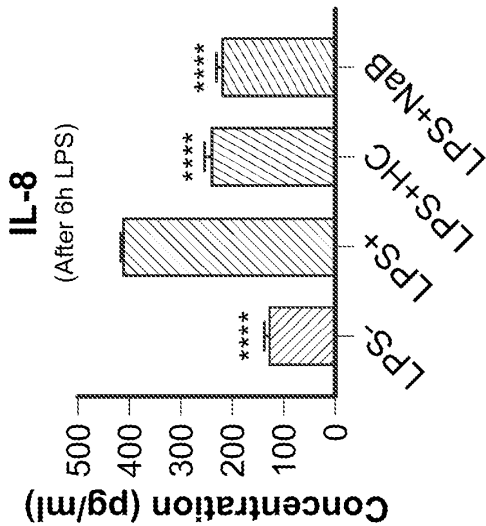


FIG. 20B

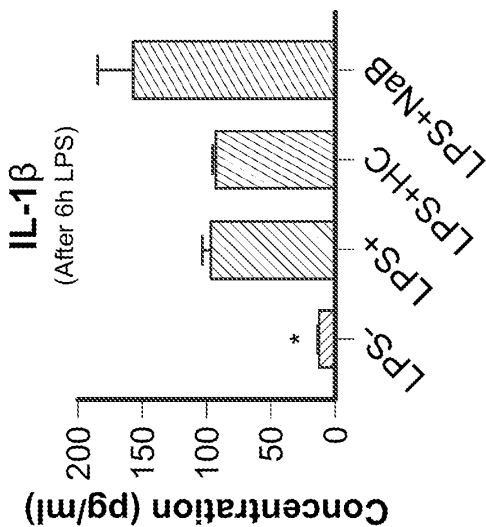


FIG. 20A

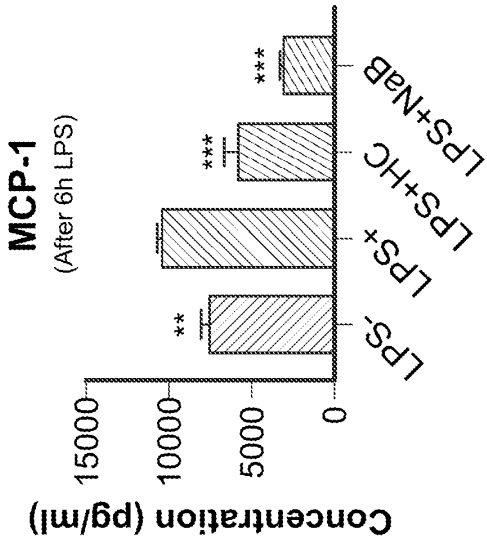


FIG. 20E

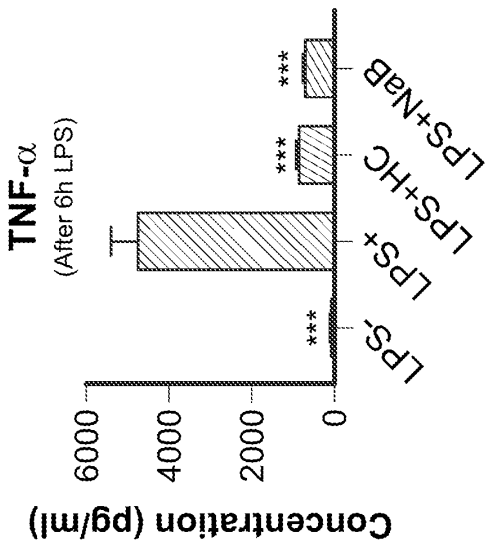


FIG. 20D

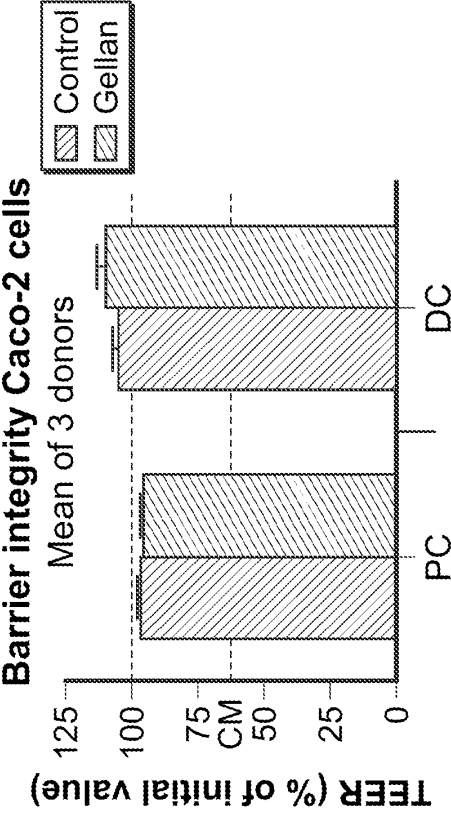


FIG. 21B

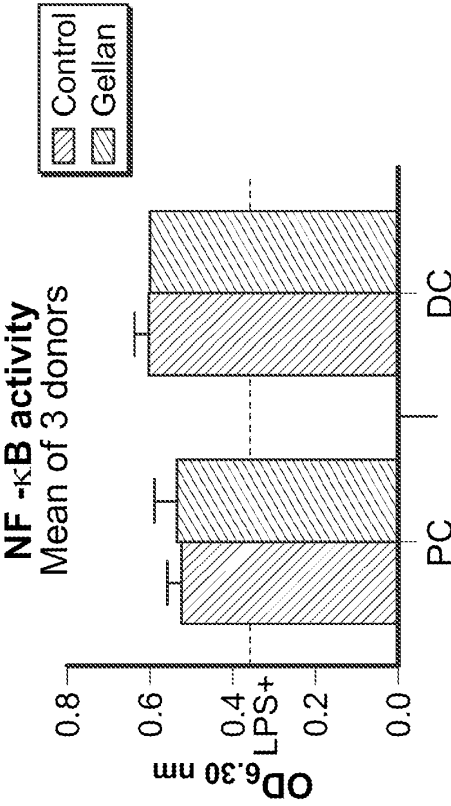


FIG. 22B

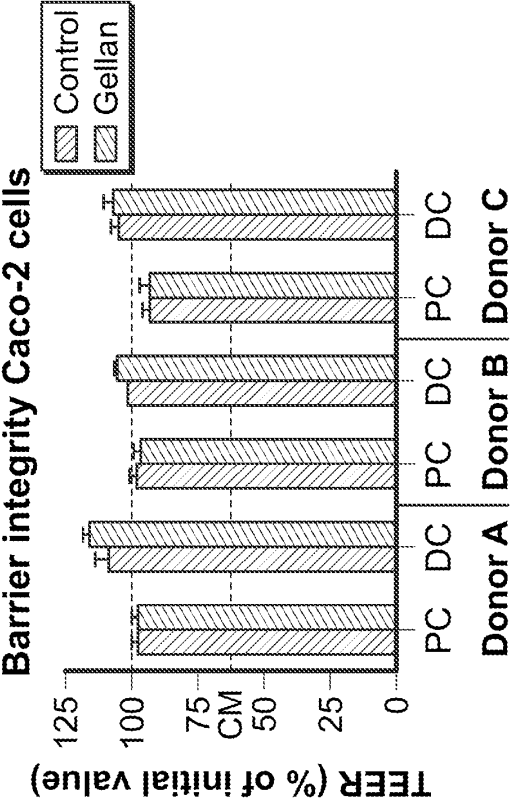


FIG. 21A

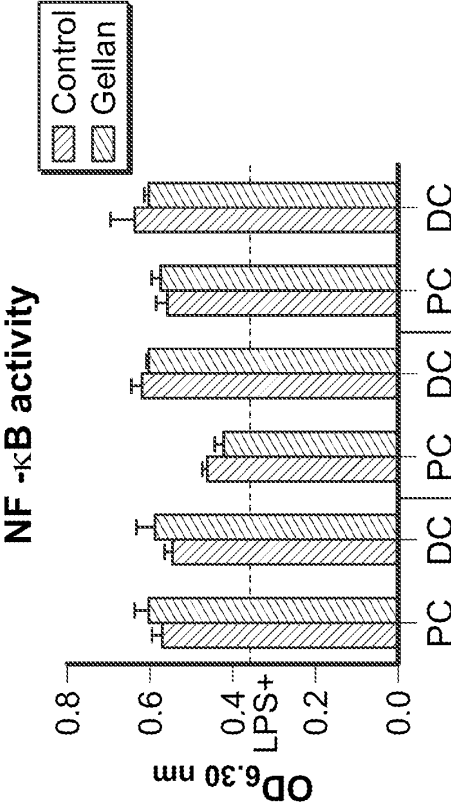


FIG. 22A

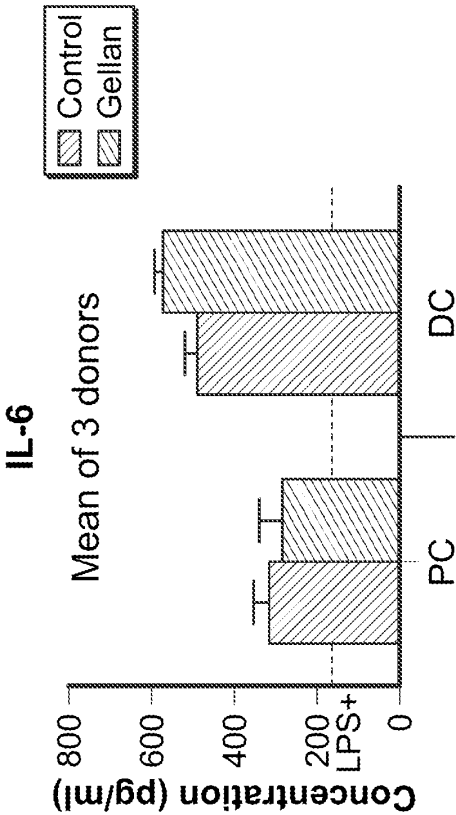


FIG. 23B

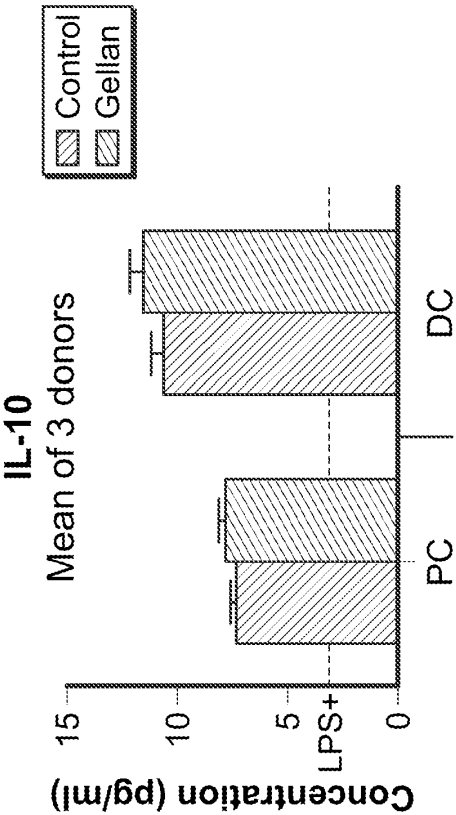


FIG. 23D

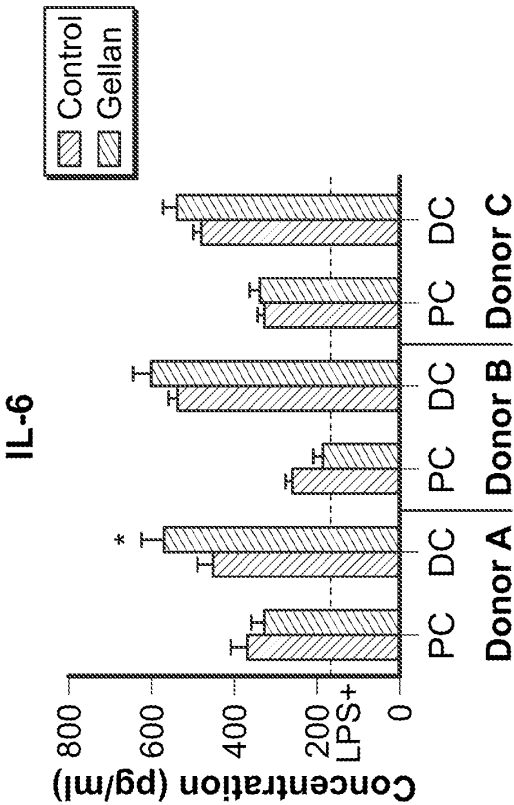


FIG. 23A

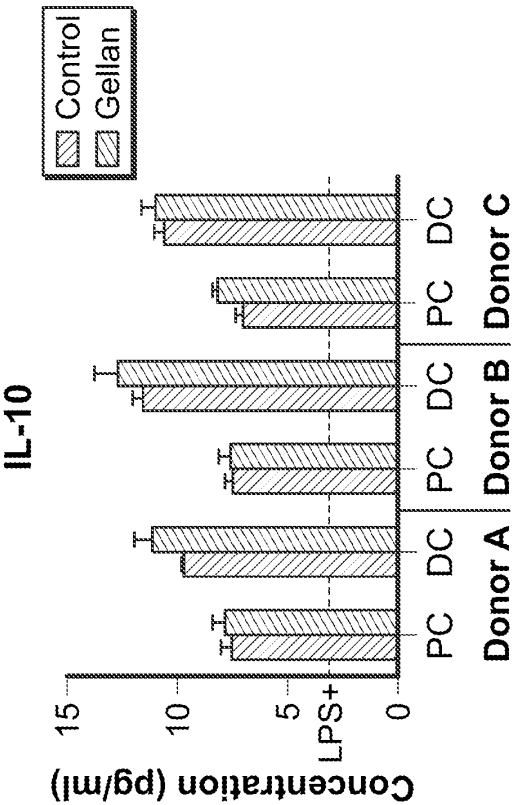


FIG. 23C

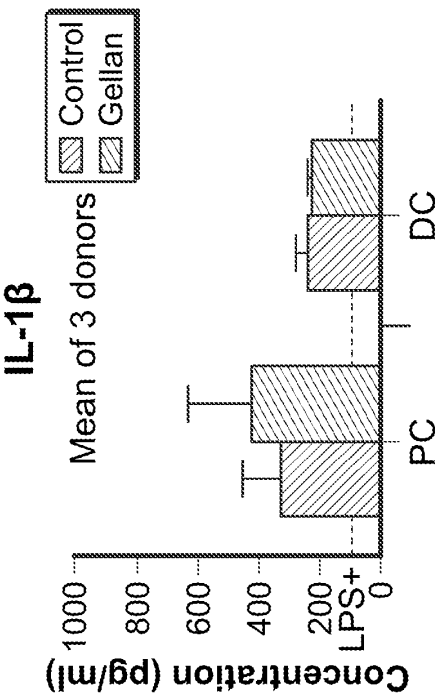


FIG. 24B

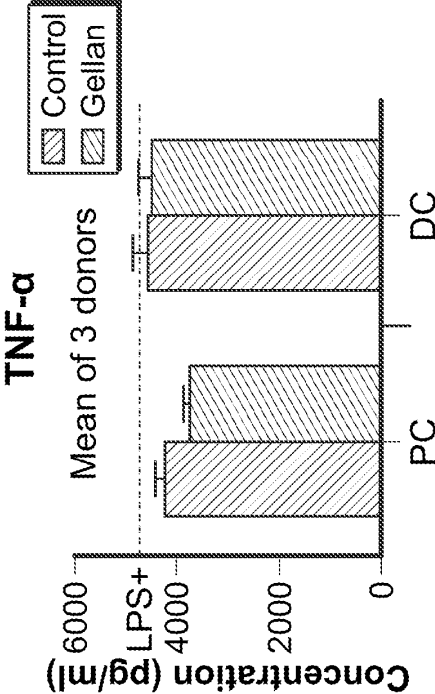


FIG. 24D

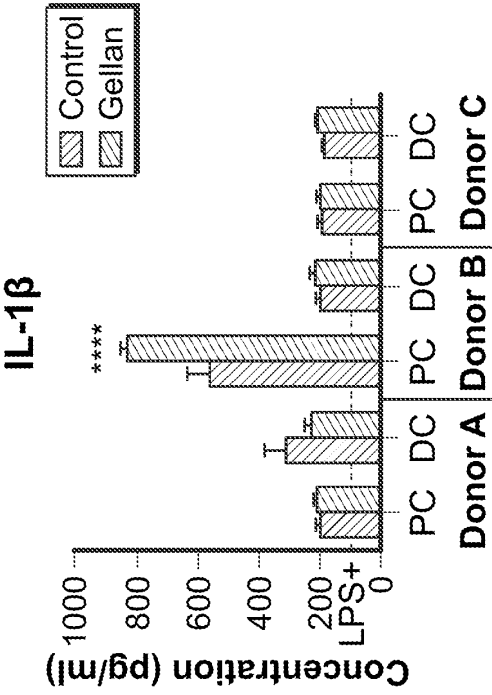


FIG. 24A

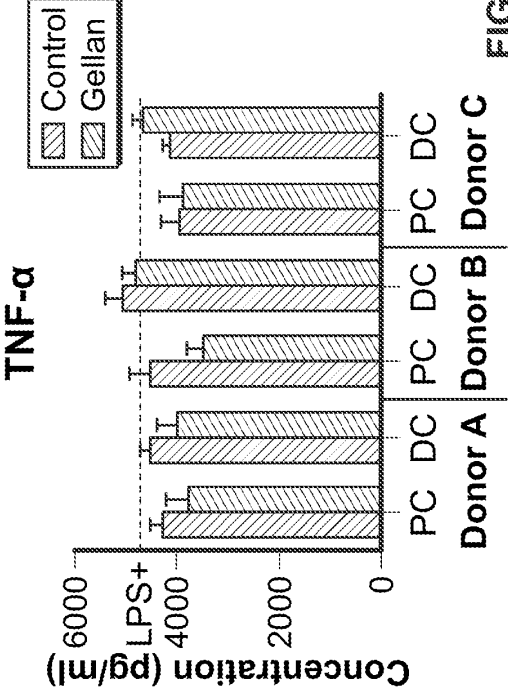


FIG. 24C

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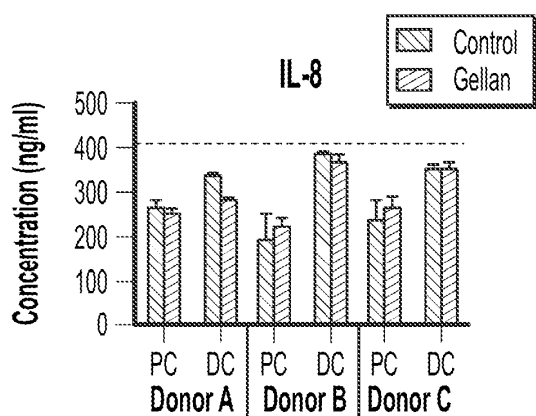


FIG. 25A

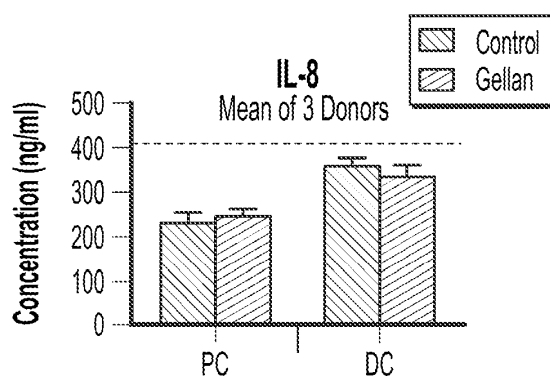


FIG. 25B

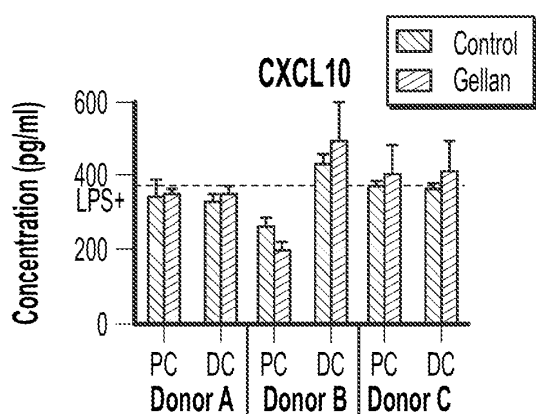


FIG. 25C

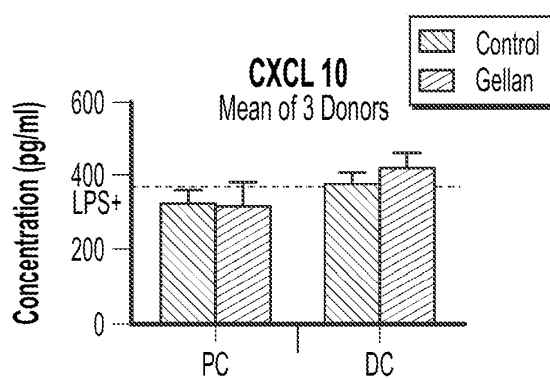


FIG. 25D

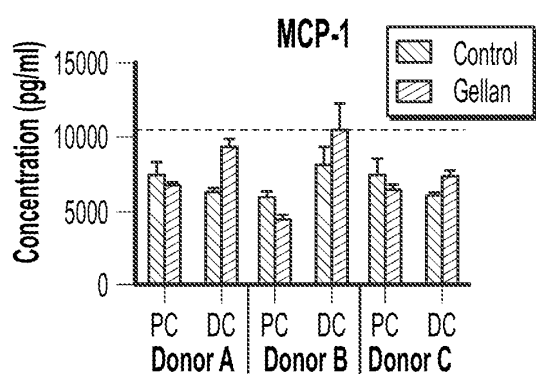


FIG. 25E

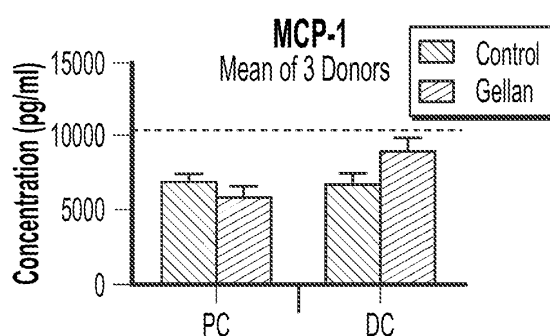


FIG. 25F