

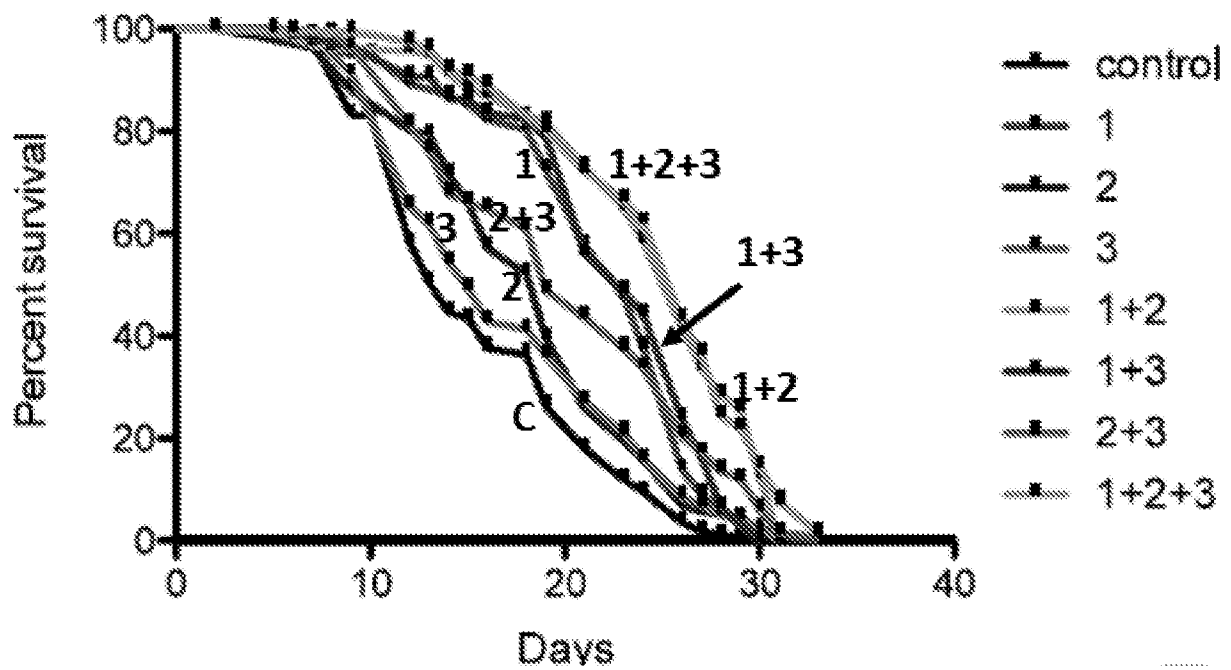


Fig. 1

Female Survival Curve

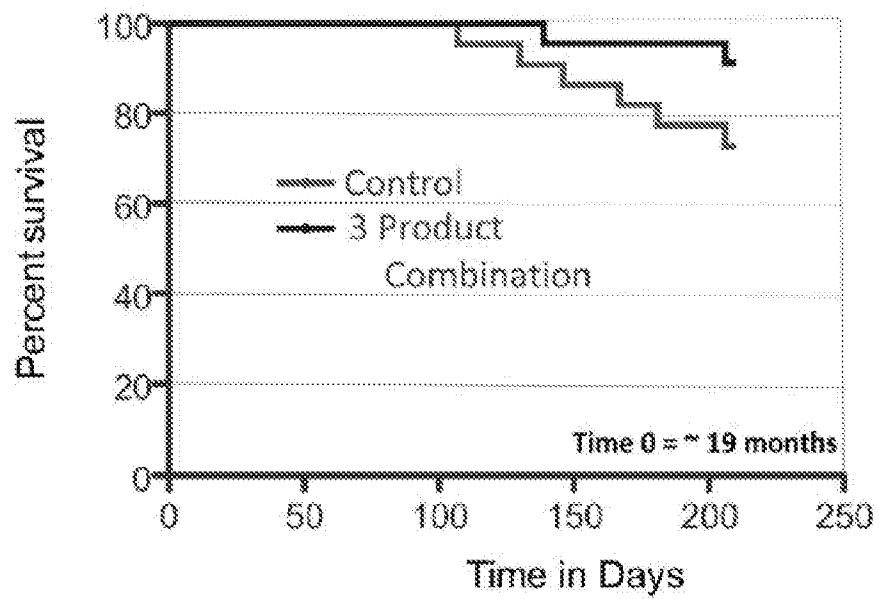


Fig. 2

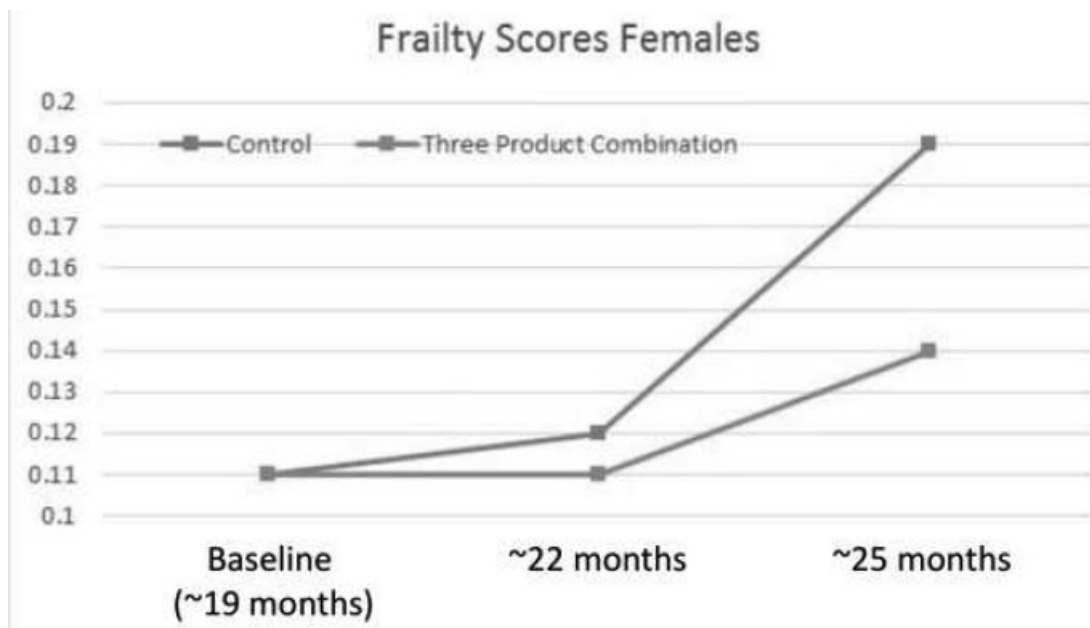


Fig. 3

Survival of Female lifespan exp start feb 12 2018

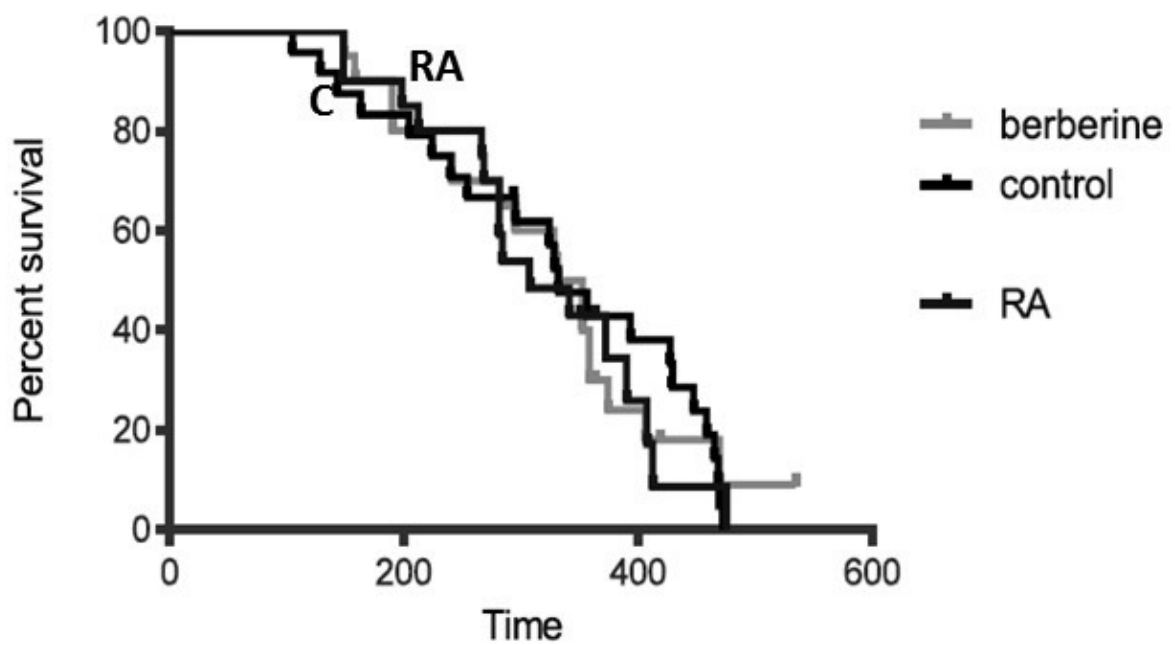


Fig. 4

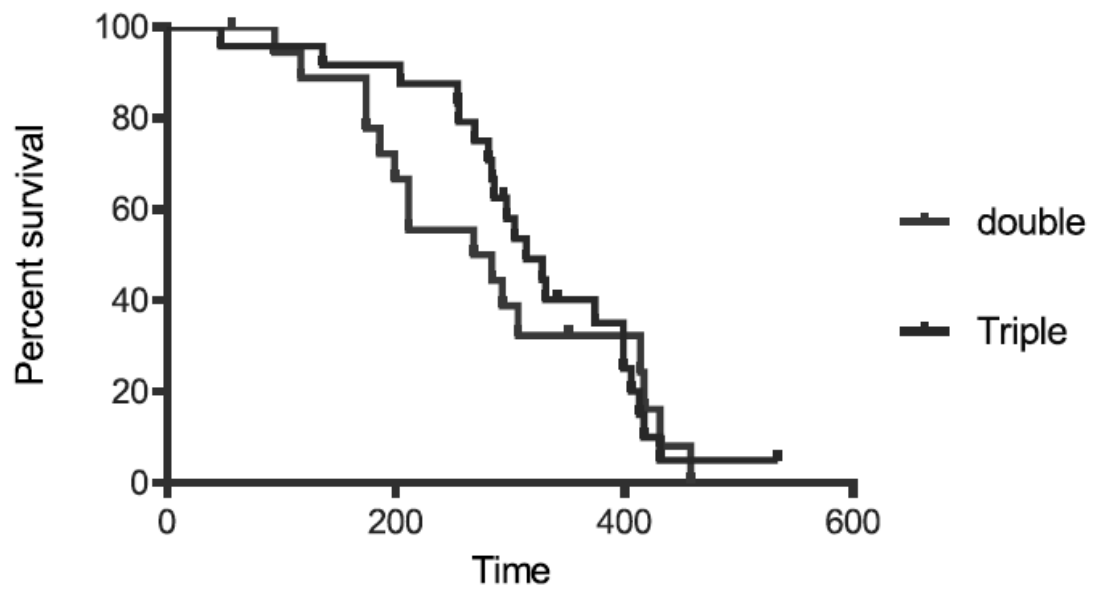


Fig. 5

Survival by males and females

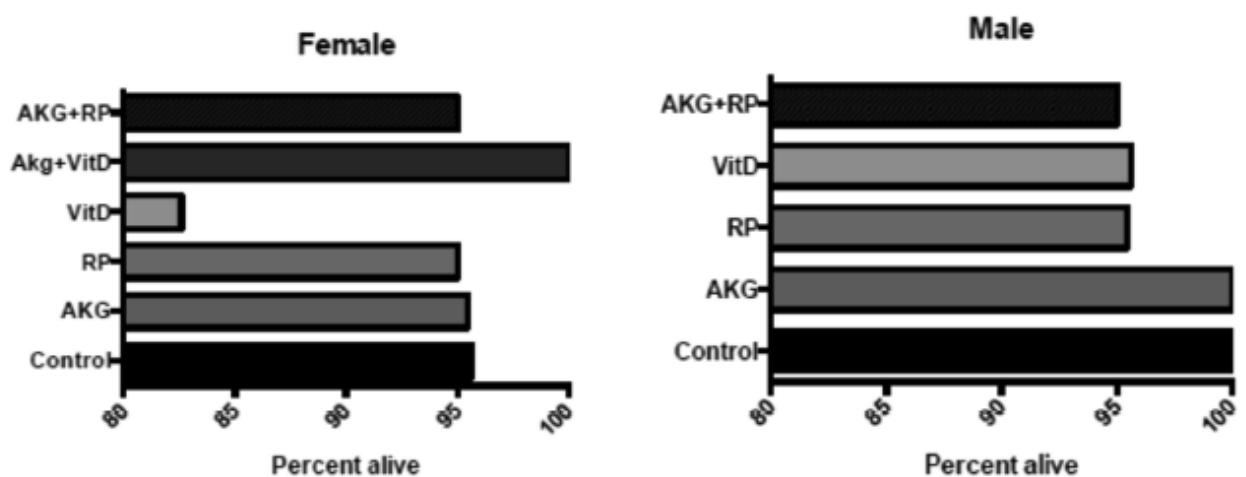


Fig. 6

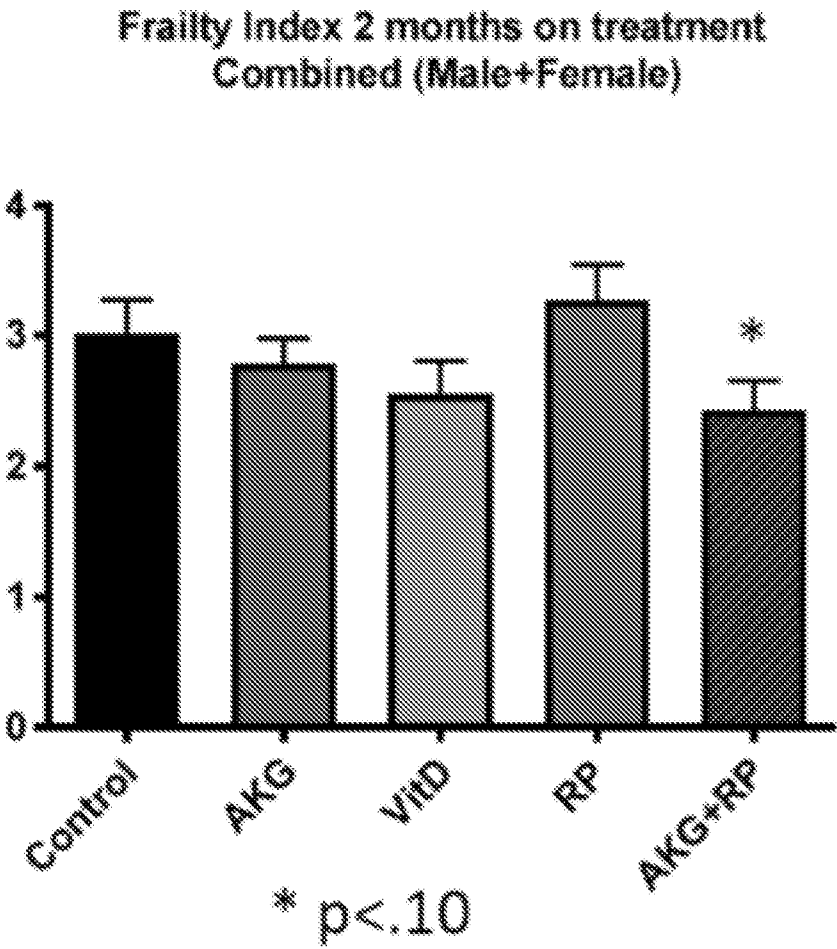
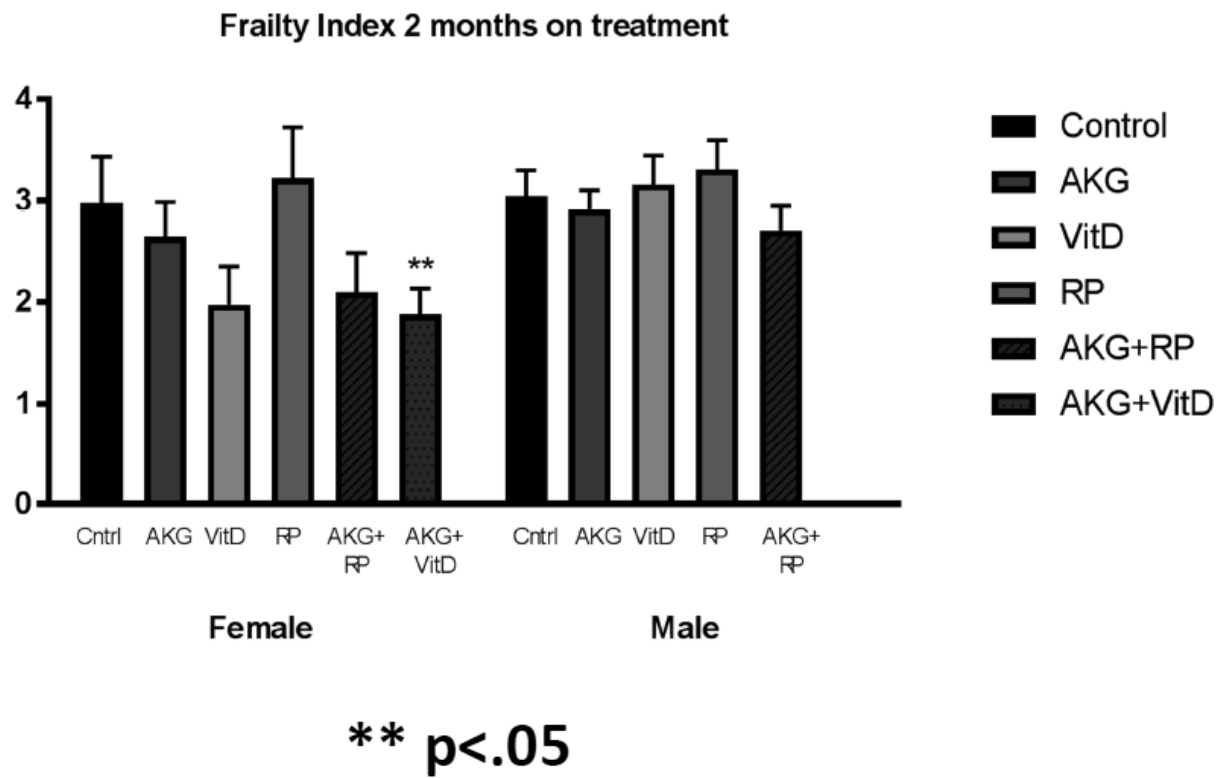
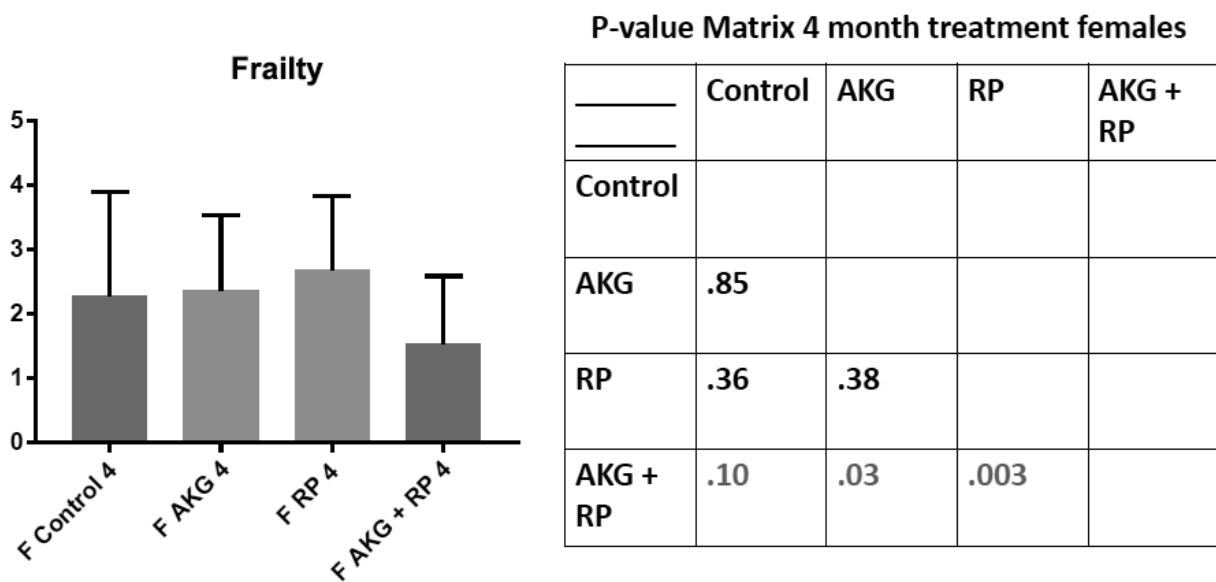


Fig. 7

**Fig. 8****Fig. 9**

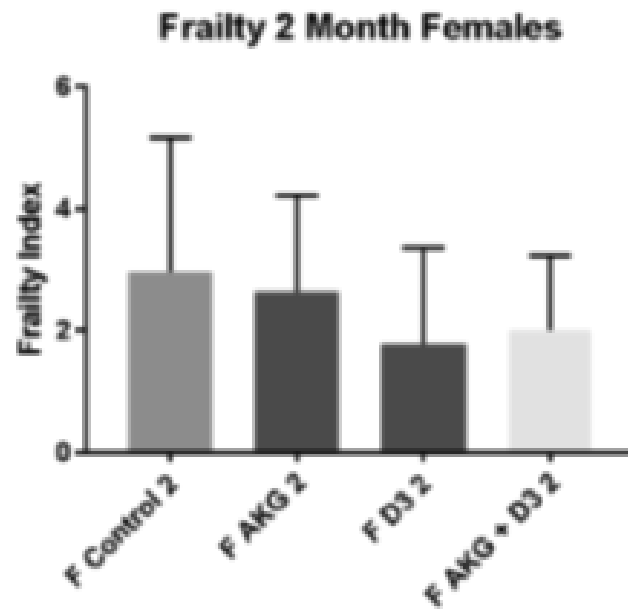


Fig. 10A

	Control	AKG	D3	AKG + D3
Control				
AKG	.56			
D3	.04	.08		
AKG + D3	.10	.18	.64	

Fig. 10B



Fig. 10C

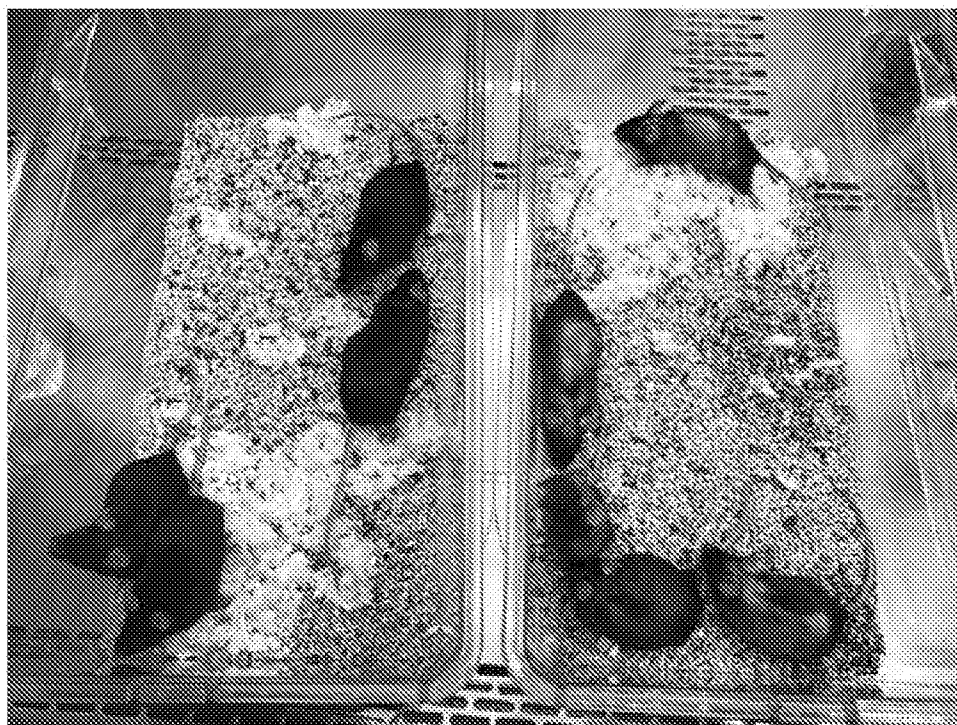


Fig. 11A



Fig. 11B

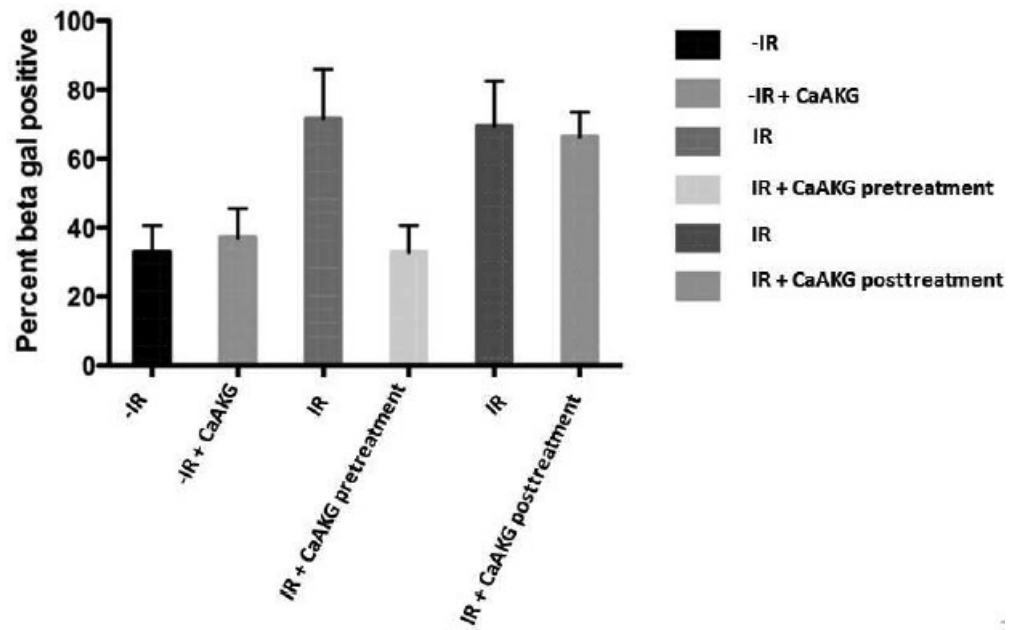


Fig. 12

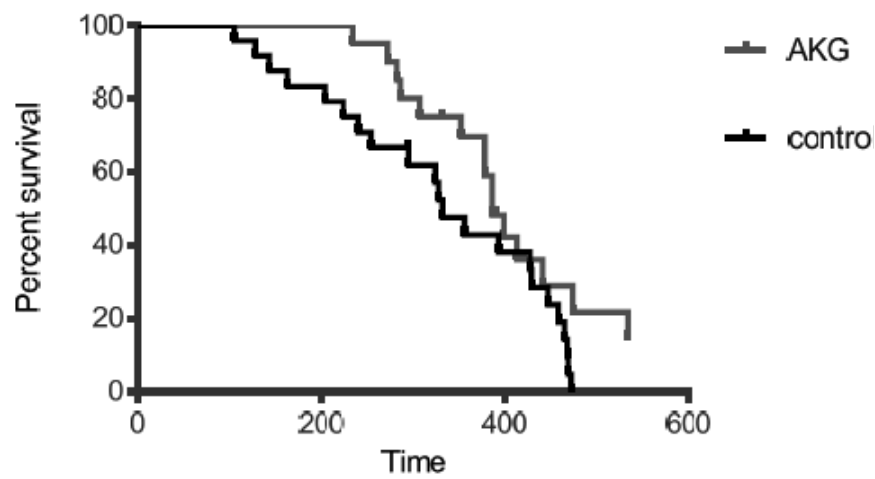


Fig. 13

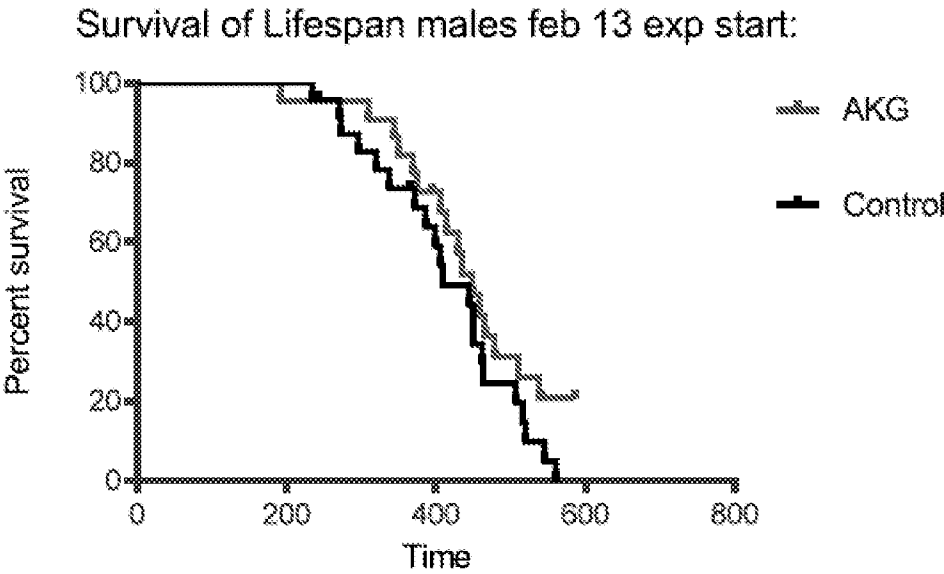


Fig. 14

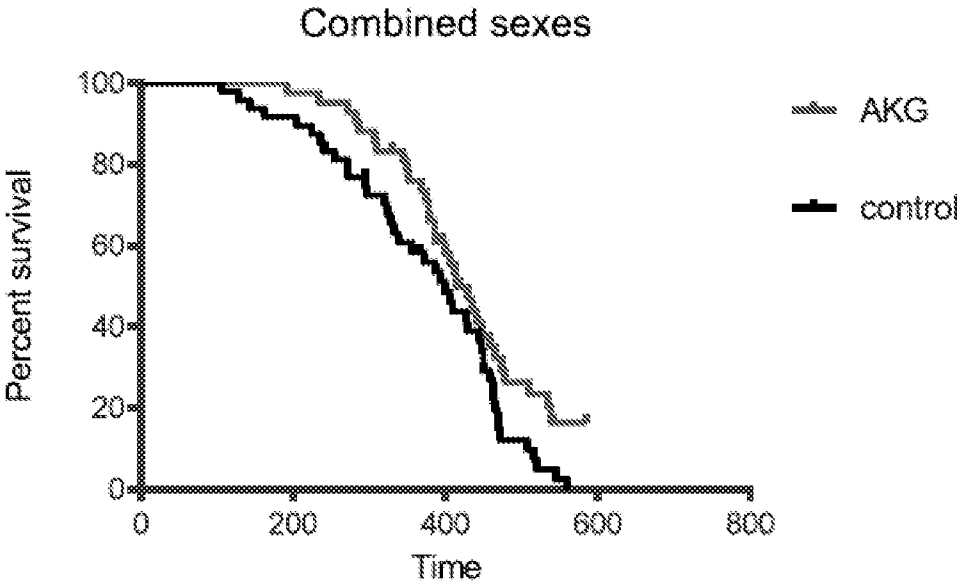


Fig. 15

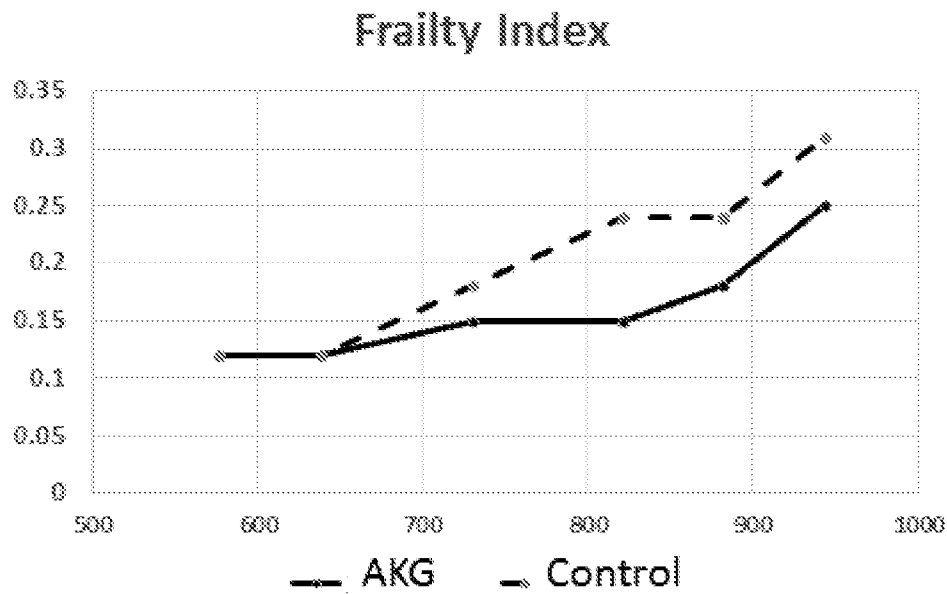


Fig. 16

ESTIMATES FOR EXTENSION WITH AKG

Ext. from Birth – Males	4%
Ext. from Treat. – Males	10%
Ext. from Birth – Females	7%
Ext. from Treat. – Females	17%
Frailty from Birth – Females	17%
Frailty from Treat. – Females	67%

Fig. 17

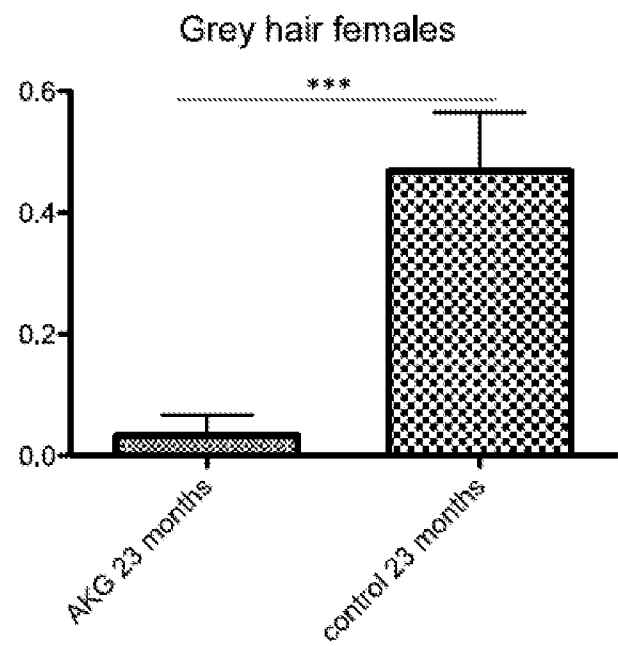


Fig. 18

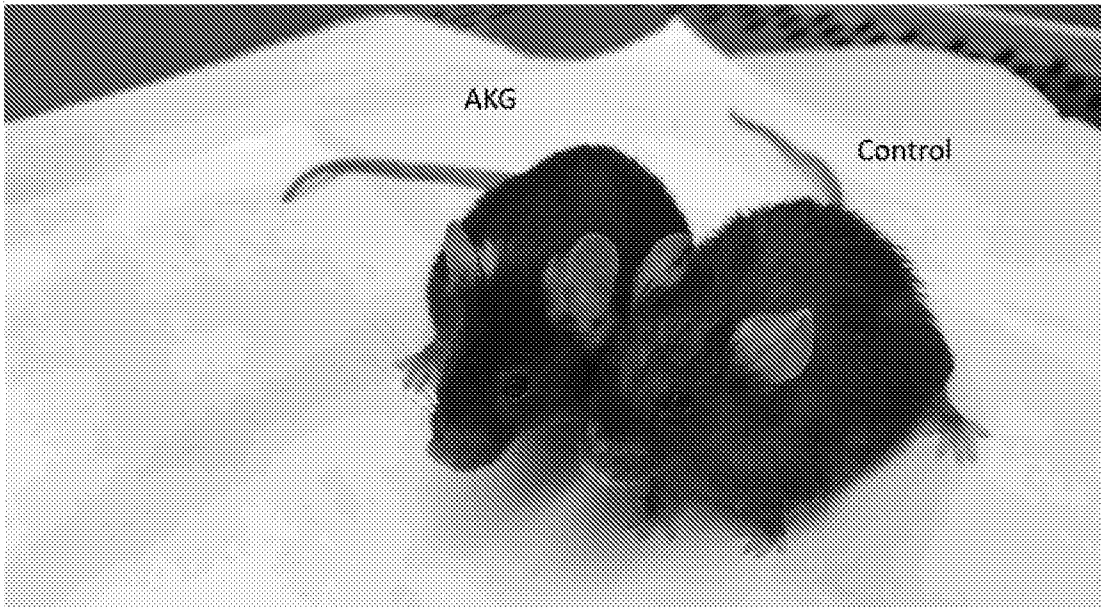


Fig. 19

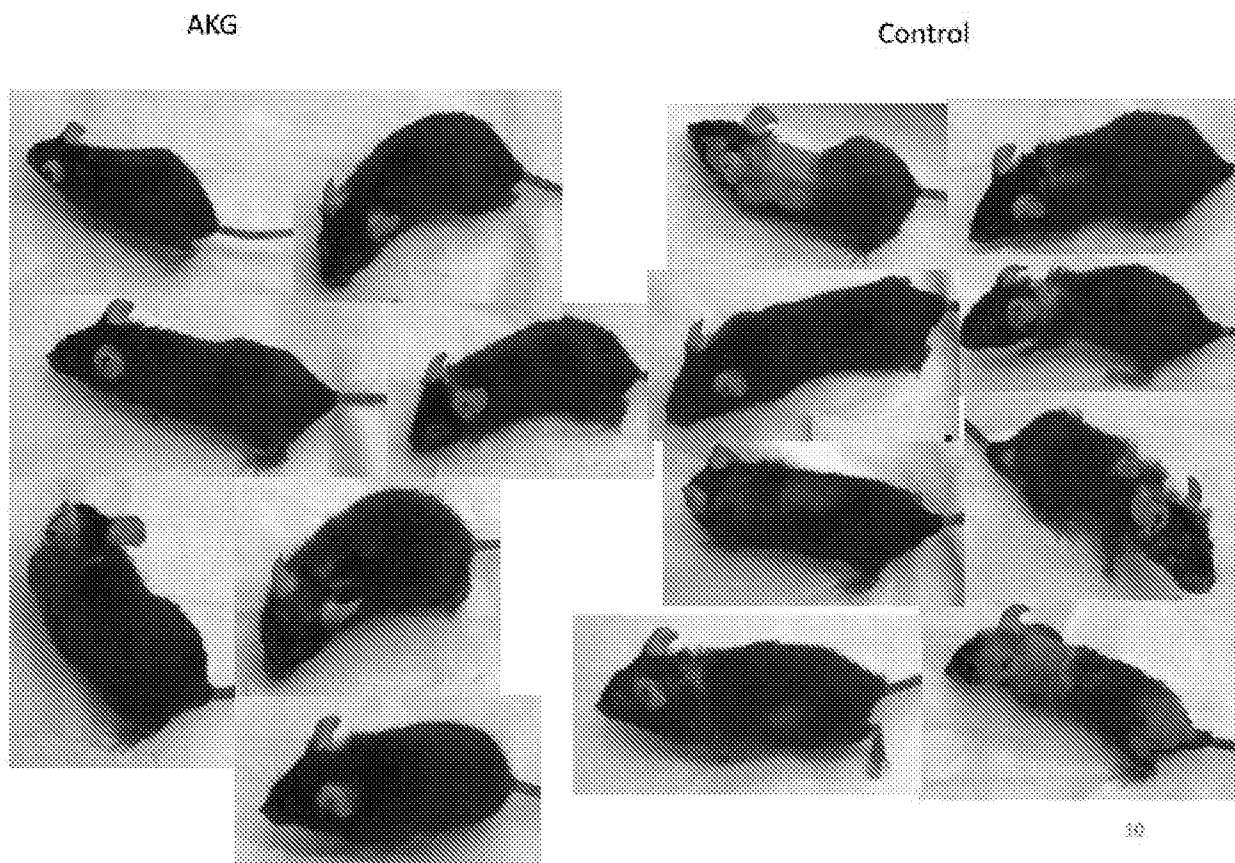


Fig. 20

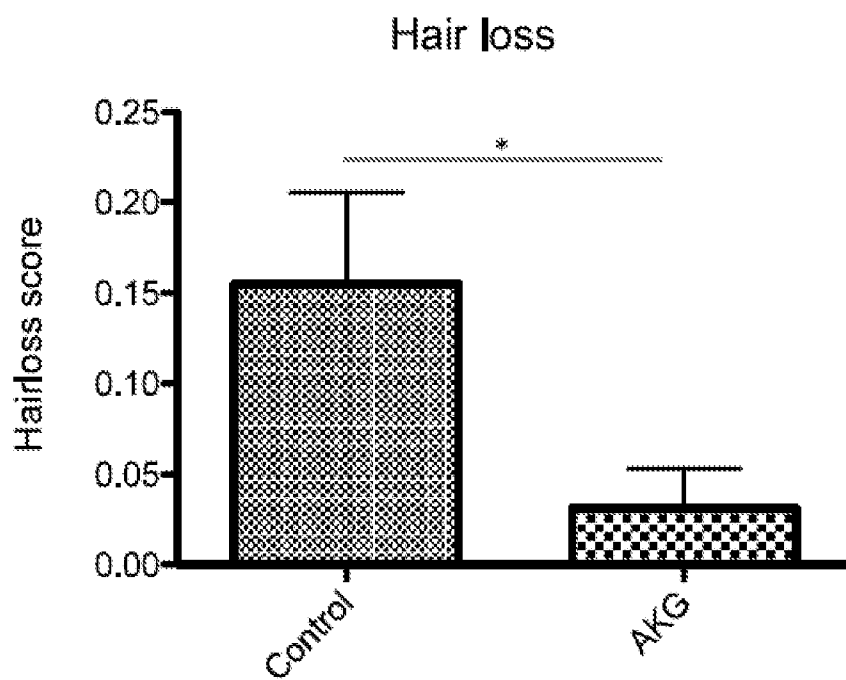


Fig. 21

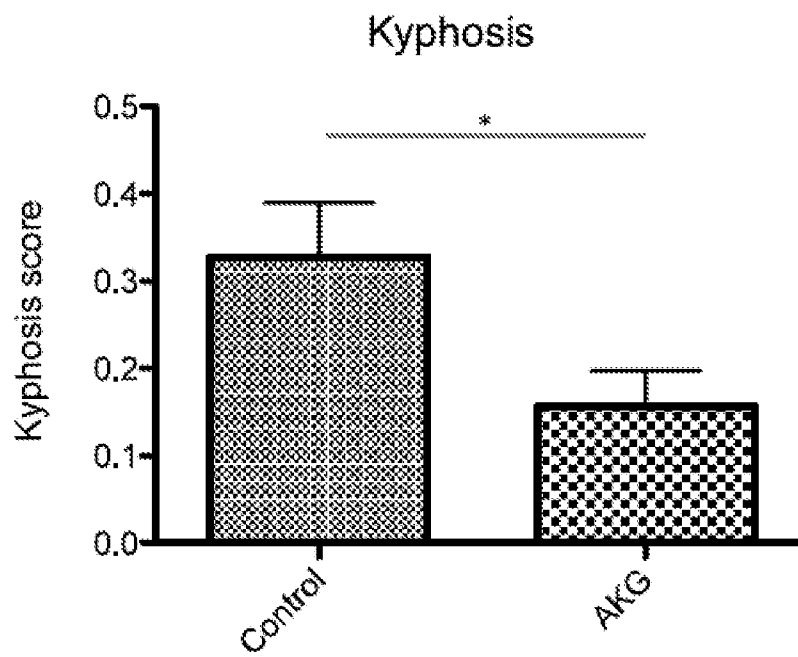


Fig. 22

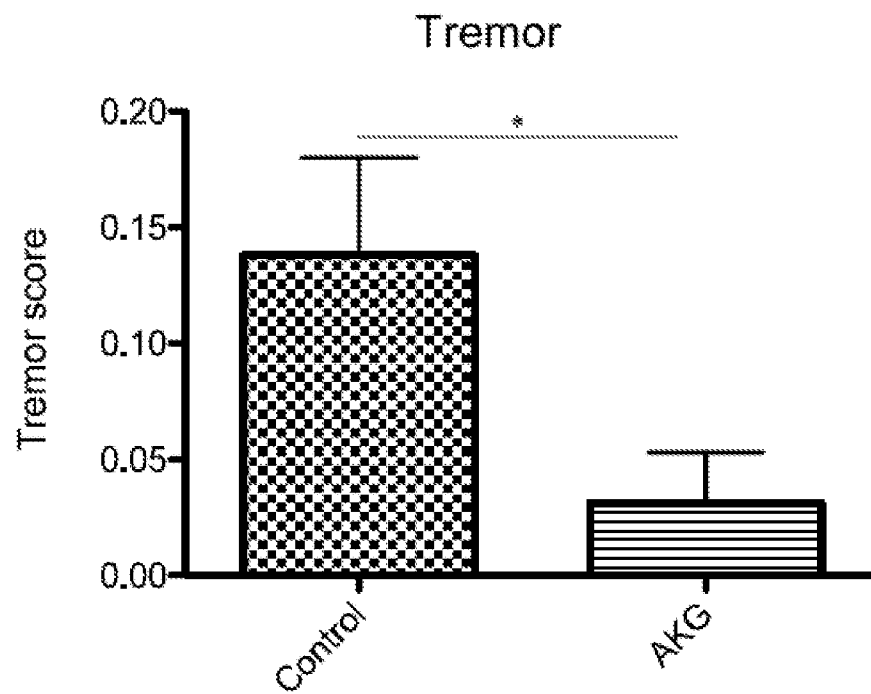


Fig. 23

	Control	18 months	AKG
IL-1B (25)	1	0,138377364	0,084663547
IL-3 (29)	1	0,143295803	0,399181167
IL-6 (34)	1	0,22415138	0,403639631
TNF α (77)	1	0,238638	1,949896818
GM-CSF (15)	1	0,242947471	0,1523883
IL-10 (43)	1	0,257850051	0,291660594
IL-4 (28)	1	0,27196019	0,315880571
MIP-1B (66)	1	0,27858165	0,468324709
IL-12 (p40) (45)	1	0,320694229	0,393676763
RANTES (75)	1	0,34192489	0,379757016
IL-13 (52)	1	0,346204936	0,272643758
IL-12 (p70) (47)	1	0,384006526	0,056001268
MIG (74)	1	0,397397745	0,912610758
MCP-1 (62)	1	0,434987489	2,101009107
IL-2 (26)	1	0,472699636	0,471634431
G-CSF (13)	1	0,477805673	0,611104914
IP-10 (57)	1	0,533194369	1,154954894
IL-17 (56)	1	0,558234765	0,29197428
MIP-1 α (64)	1	0,560436064	0,375407525
IFN γ (19)	1	0,645812311	0,109149008
VEGF (76)	1	0,693848355	0,683834049
IL-1 α (21)	1	0,70493983	0,544236274
IL-5 (30)	1	0,722142295	0,746495499
KC (61)	1	0,736553481	0,835952196
M-CSF (67)	1	0,825671362	0,678925821
IL-9 (38)	1	0,849248123	1,316876102
Eotaxin (14)	1	0,936693809	0,813662791
MIP-2 (73)	1	0,952643192	0,856532602
IL-7 (36)	1	1,747958564	0,27716291
IL-15 (54)	1	2,293537673	0,383101541
LIX (53)	1	3,189811015	1,556389501

Fig. 24

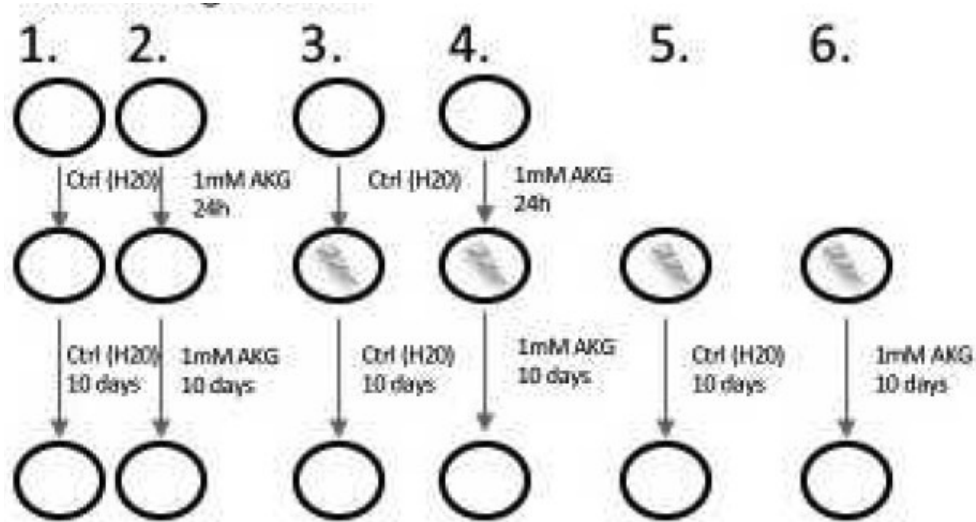


Fig. 25

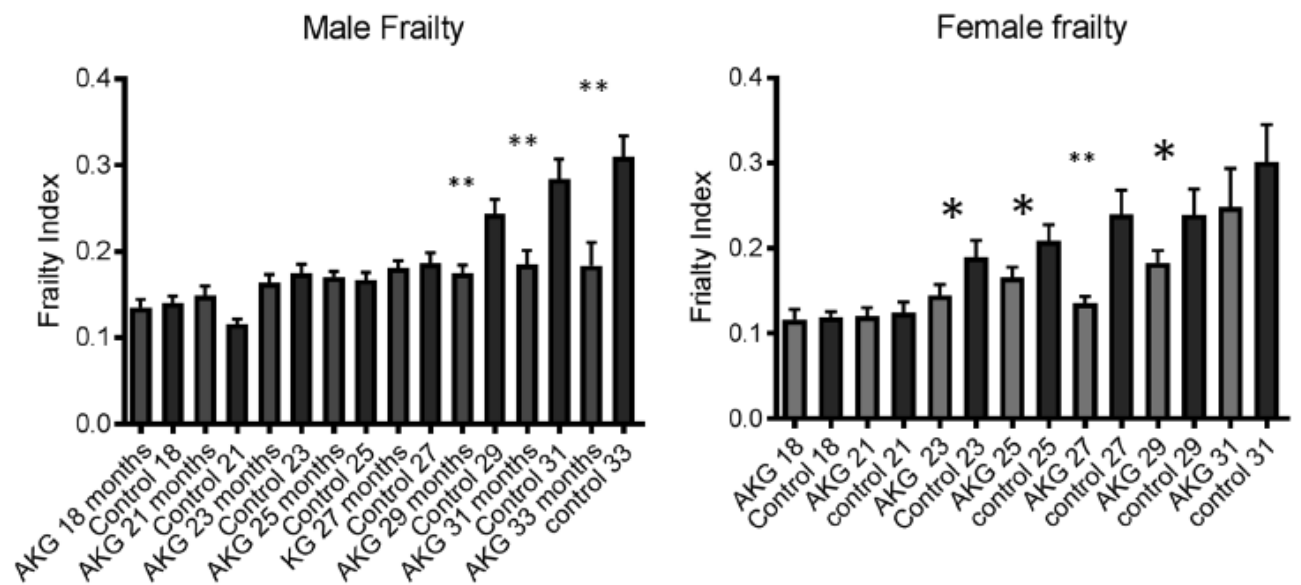
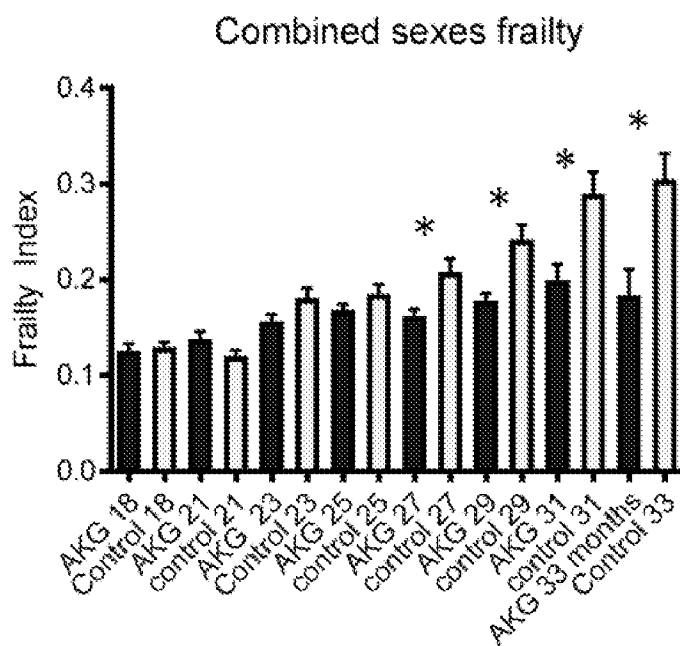
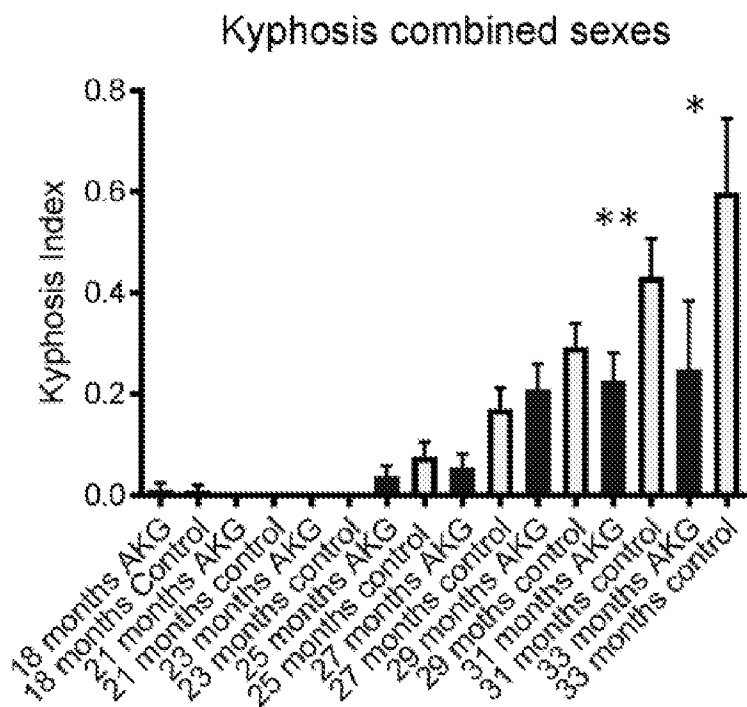


Fig. 26

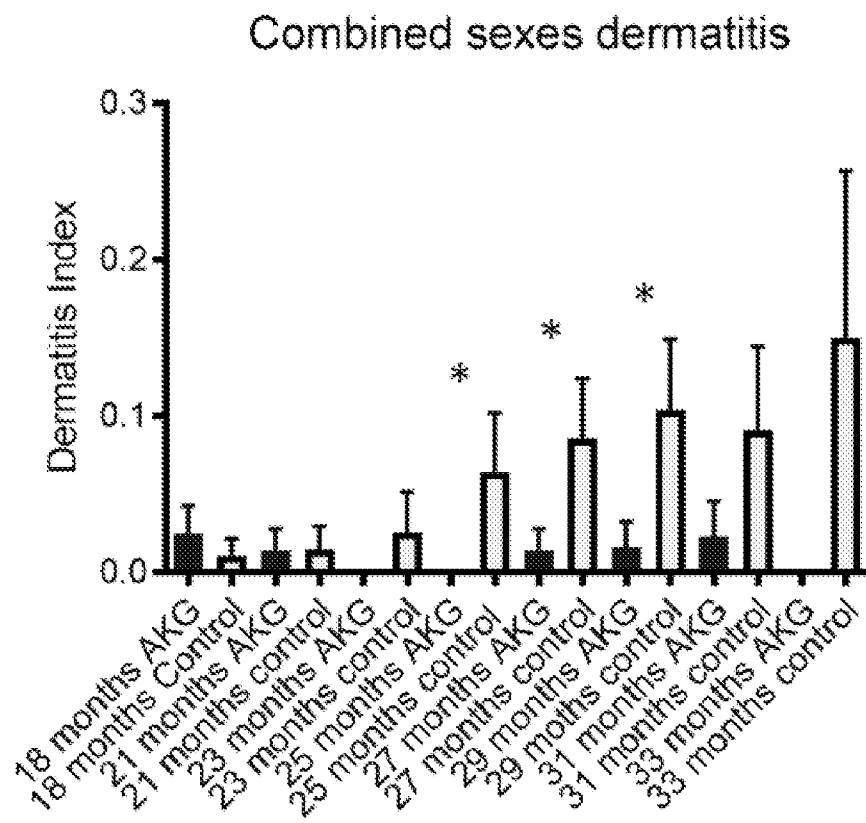
Frailty Combined

**Fig. 27**

* $p < .1$

** $p < .05$

Fig. 28



* $p < .1$

Fig. 29

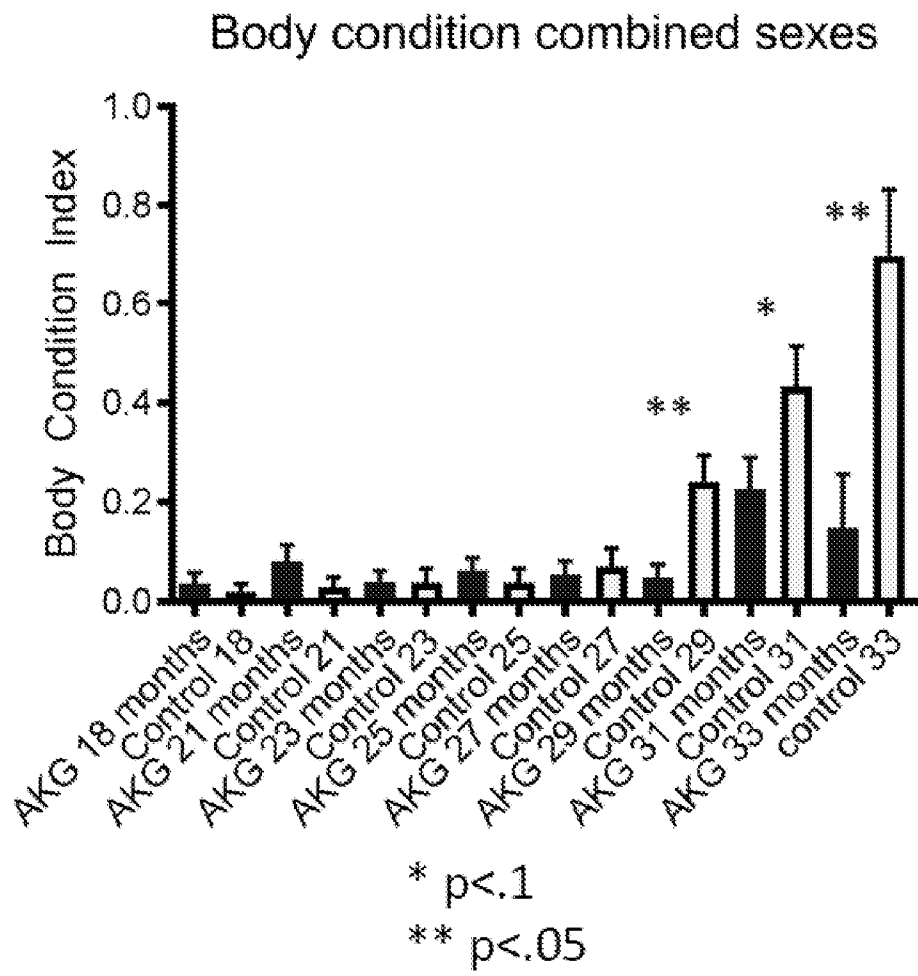


Fig. 30

19/22

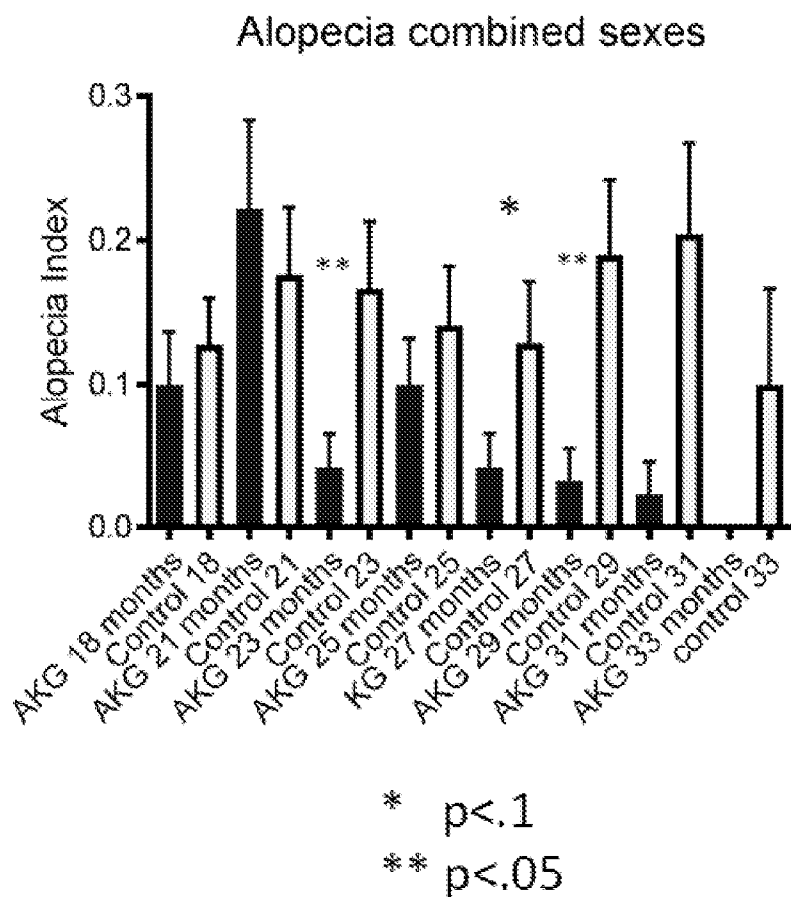


Fig. 31

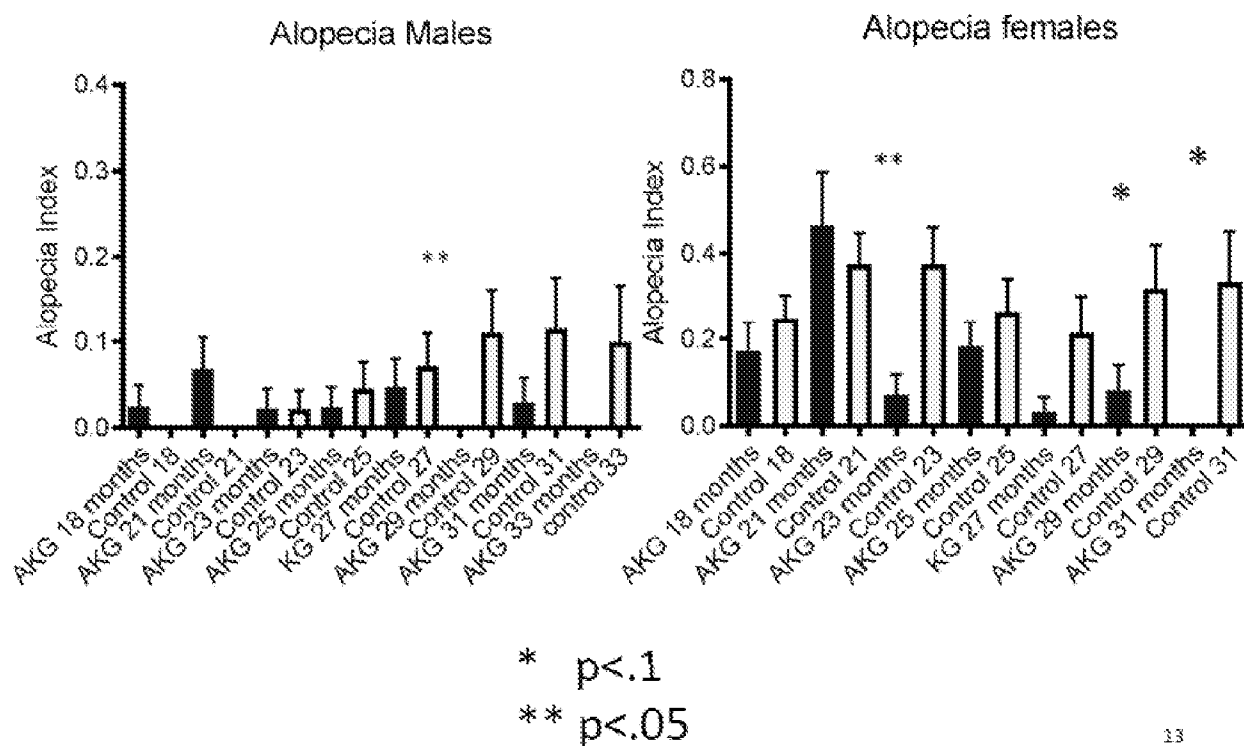
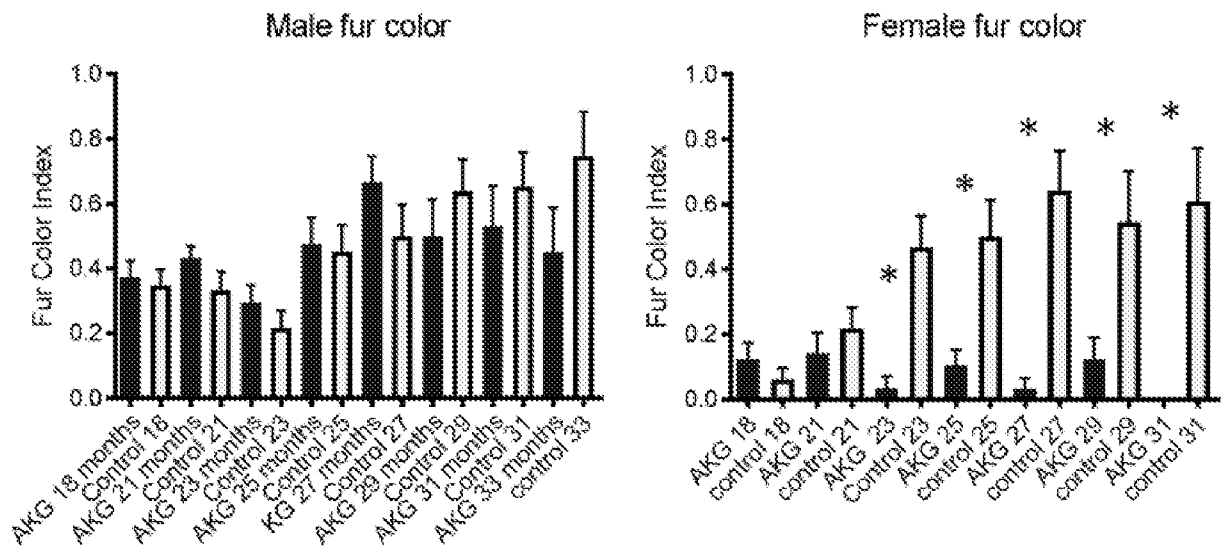
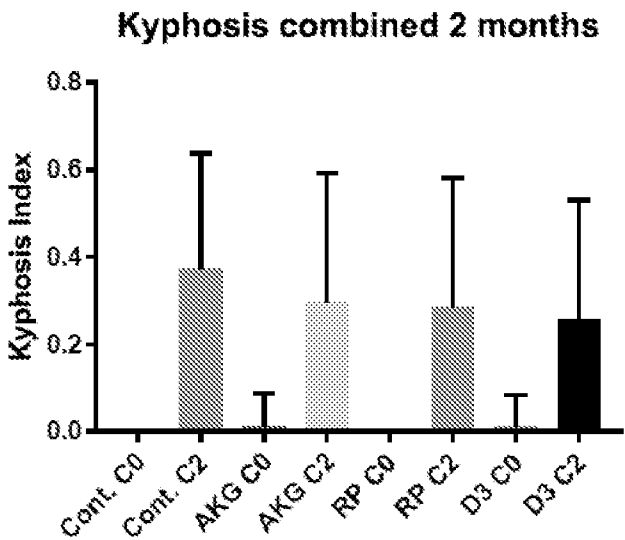


Fig. 32



* p<.05

Fig. 33



P values	Control	AKG	RP	D3
Control				
AKG	.21			
RP	.15	.85		
D3	.04	.50	.63	

Fig. 34

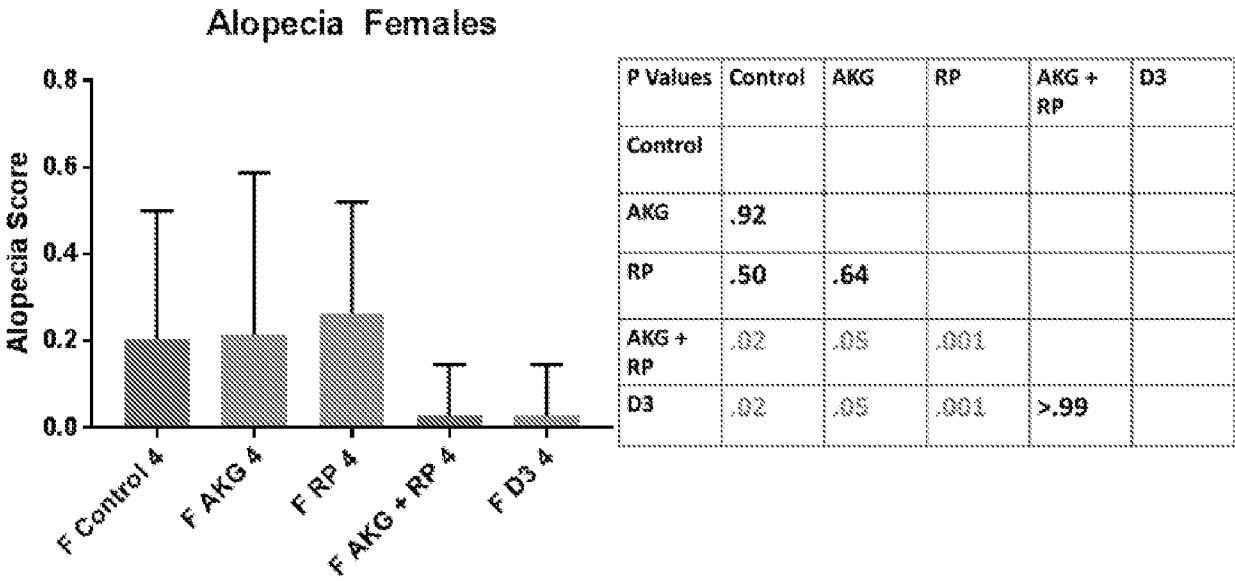


Fig. 35

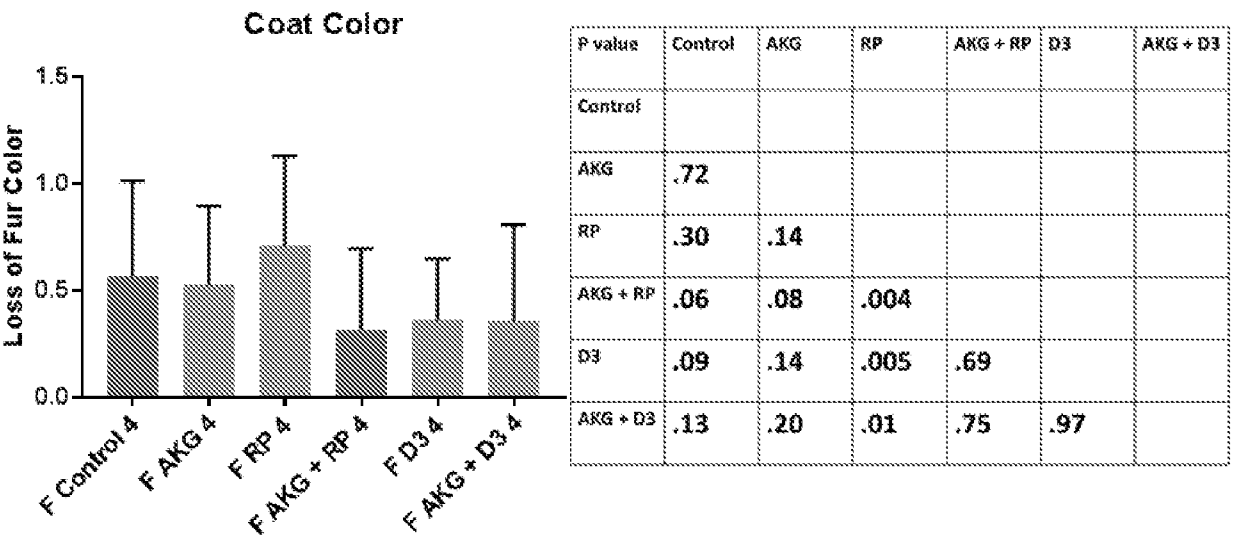


Fig. 36

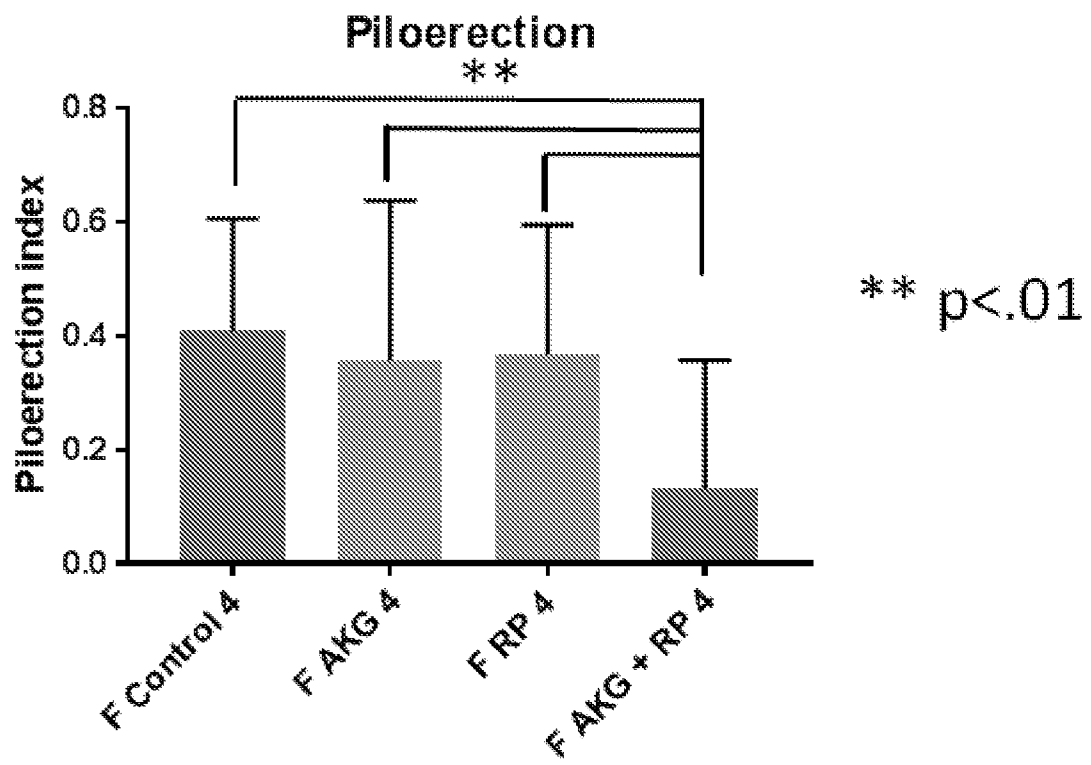


Fig. 37