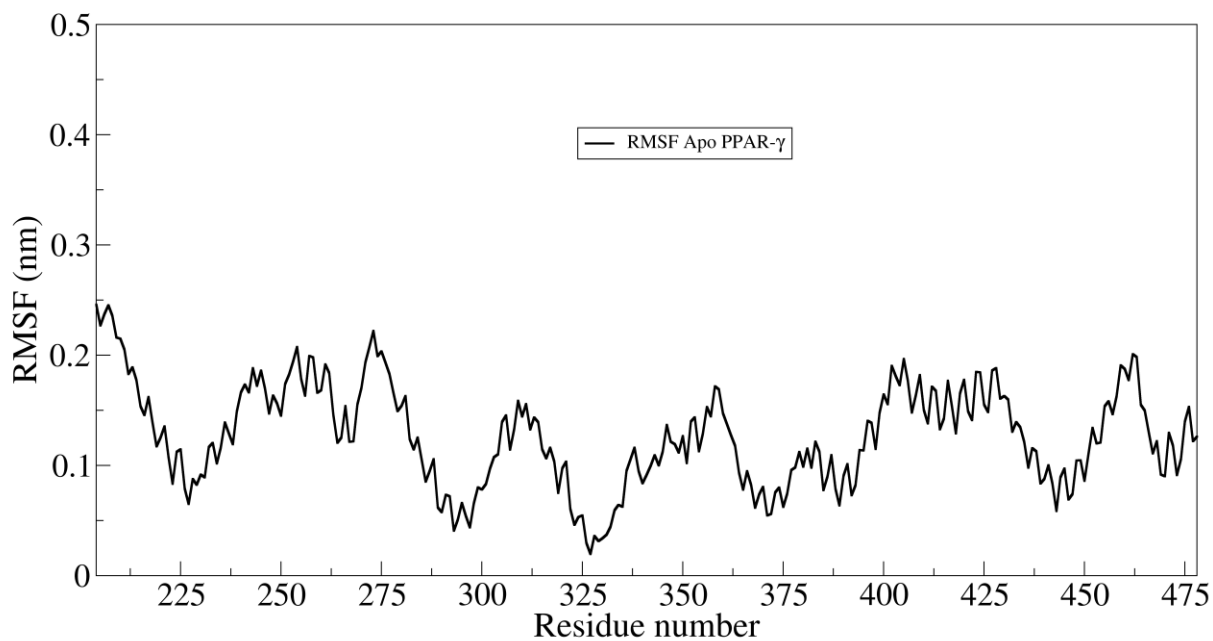


**Figure S1. RMSD in apo-PPAR- $\gamma$  backbone atoms**



**Figure S2. RMSF in apo-PPAR- $\gamma$  residues**

**Disease activity index:**

The graph displays the Disease Activity Index (Y-axis, 0 to 4) against time points (X-axis). The Control group remains at 0. The DSS group shows a sharp increase after week 6, reaching approximately 3.8 by week 9. The DSS+G and DSS+L groups show moderate increases, reaching approximately 1.7 and 1.5 respectively by week 9. The DSS+G-L group shows a slight increase, reaching approximately 1.2 by week 9.

Group	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
Control	0	0	0	0	0	0	0	0	0	0
DSS	0	0	0	0	0	0	0.2	0.5	1.2	3.8***
DSS+G	0	0	0	0	0	0	0.2	0.5	1.2	1.7
DSS+L	0	0	0	0	0	0	0.2	0.5	1.0	1.5
DSS+G-L	0	0	0	0	0	0	0.2	0.5	1.0	1.2

Legend:

- Control vs DSS \*\*\*  $p < 0.001$
- DSS vs Ctrl100 \*  $p < 0.05$
- DSS vs Ctrl200 \*\*  $p < 0.01$
- DSS vs SALZ \*  $p < 0.05$

[illegible]

Control	DSS	DSS+Cin100	DSS+Cin200	DSS+SAZ
0.18099	0.6875361	0.409246878	0.269060634	0.440078567
0.217134	0.7751654	0.505105028	0.281463098	0.320335986
0.145844	0.40128	0.318879346	0.271425951	0.31045862
0.181323	0.6213272	0.544410417	0.273983228	0.356957724
0.084242	0.5548352	0.115381017	0.124235949	0.143784573
0.15223	0.611789	0.322581	0.1955623	0.2988452
0.175996	0.4778923	0.2899652	0.2447893	0.3614789
0.200459	0.5422589	0.78125	0.174122	0.29665478
Table Anal	DSS-Cin-MPO activity			
Data sets	A-E			
ANOVA summary				
F	16.19			
P value	<0.0001			
P value su	****			
Significant	Yes			
R squared	0.6492			
ANOVA ta	SS	DF	MS	F (DFn, DFd) P value
Treatment	0.8576	4	0.2144	F (4, 35) = 16.19 P<0.0001
Residual (v	0.4634	35	0.01324	
Total	1.321	39		
Data summary				
Number of	5			
Number of	40			
Number of	1			
Number of	10			
Alpha	0.05			
Tukey's m	Mean Diff.	95.00% CI of diff.	Below threshold?	Summary Adjusted P Value
Control vs.	-0.4167	-0.5821 to -0.2513	Yes	**** <0.0001 A-B
Control vs.	-0.2436	-0.4090 to -0.0781	Yes	** 0.0014 A-C
Control vs.	-0.06205	-0.2275 to 0.1034	No	ns 0.8162 A-D
Control vs.	-0.1488	-0.3142 to 0.0166	No	ns 0.095 A-E
DSS vs. D	0.1732	0.007742 to 0.338	Yes	* 0.0364 B-C
DSS vs. D	0.3547	0.1893 to 0.5201	Yes	**** <0.0001 B-D
DSS vs. D	0.2679	0.1025 to 0.4334	Yes	*** 0.0004 B-E
DSS+Cin1	0.1815	0.01611 to 0.3468	Yes	* 0.0256 C-D
DSS+Cin1	0.09478	-0.07064 to 0.2601	No	ns 0.4785 C-E
DSS+Cin2	-0.08674	-0.2522 to 0.0786	No	ns 0.5645 D-E
Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff. n1 n2 q DF
Control vs.	0.1673	0.584	-0.4167	0.05753 8 8 10.24 35
Control vs.	0.1673	0.4109	-0.2436	0.05753 8 8 5.987 35
Control vs.	0.1673	0.2293	-0.06205	0.05753 8 8 1.525 35
Control vs.	0.1673	0.3161	-0.1488	0.05753 8 8 3.657 35
DSS vs. D	0.584	0.4109	0.1732	0.05753 8 8 4.256 35
DSS vs. D	0.584	0.2293	0.3547	0.05753 8 8 8.718 35
DSS vs. D	0.584	0.3161	0.2679	0.05753 8 8 6.586 35
DSS+Cin1	0.4109	0.2293	0.1815	0.05753 8 8 4.462 35
DSS+Cin1	0.4109	0.3161	0.09478	0.05753 8 8 2.33 35
DSS+Cin2	0.2293	0.3161	-0.08674	0.05753 8 8 2.132 35

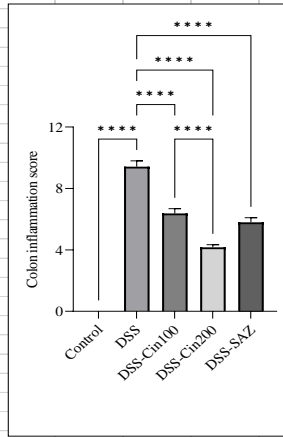
Group	MPO U/(mg of tissue)
Control	~0.18
DSS	~0.58
DSS+Cin100	~0.40
DSS+Cin200	~0.22
DSS+SAZ	~0.31

## Histology inflammation score:

Control	DSS	DSS-Cin100	DSS-Cin200	DSS-SAZ
0	8	8	5	10
0	10	6	5	6
0	12	9	4	7
0	8	6	4	8
0	9	5	4	4
0	10	7	4	5
0	11	5	4	6
0	12	10	4	4
0	7	4	5	5
0	8	6	4	6
0	6	7	5	5
0	10	8	3	4
0	10	4	4	7
0	11	5	3	8
0	12	6	3	5
0	10	6	4	4
0	9	7	4	5
0	7	5	5	6
0	8	7	5	5
0	6	8	3	5
0	9	6	4	6
0	10	7	6	5
0	11	6	3	6
0	12	5	5	7

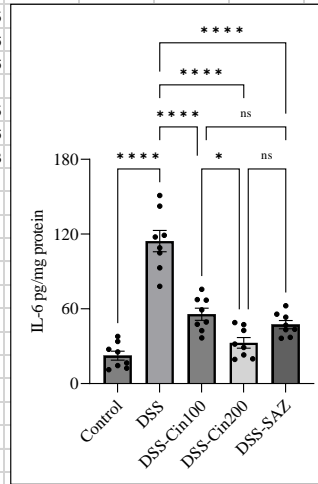
  

Table Anal Histology-Colon inflammation score				
Data sets A-E				
ANOVA summary				
F	167			
P value	<0.0001			
P value su	****			
Significant	Yes			
R squared	0.8531			
ANOVA ta SS				
Treatment	1143	DF	MS	F (DFn, DFd) P value
Residual (v	196.8		115	F (4, 115) = 11 P<0.0001
Total	1339		119	
Data summary				
Number of	5			
Number of	120			
Number of				
Number of	1			
Number of	10			
Alpha	0.05			
Tukey's m				
Mean Diff.	95.00% CI of diff.	Below threshold	Summary	Adjusted P Value
Control vs.	-9.417 -10.46 to -8.370	Yes	****	<0.0001 A-B
Control vs.	-6.375 -7.421 to -5.329	Yes	****	<0.0001 A-C
Control vs.	-4.167 -5.213 to -3.120	Yes	****	<0.0001 A-D
Control vs.	-5.792 -6.838 to -4.745	Yes	****	<0.0001 A-E
DSS vs. D	3.042 1.995 to 4.088	Yes	****	<0.0001 B-C
DSS vs. D	5.25 4.204 to 6.296	Yes	****	<0.0001 B-D
DSS vs. D	3.625 2.579 to 4.671	Yes	****	<0.0001 B-E
DSS-Cin100	2.208 1.162 to 3.255	Yes	****	<0.0001 C-D
DSS-Cin100	0.5833 -0.4632 to 1.630	No	ns	0.5357 C-E
DSS-Cin200	-1.625 -2.671 to -0.5785	Yes	***	0.0003 D-E
Test detail				
Mean 1	Mean 2	Mean Diff.	SE of diff.	n1 n2 q DF
Control vs.	0 9.417	-9.417	0.3776	24 24 35.27 115
Control vs.	0 6.375	-6.375	0.3776	24 24 23.88 115
Control vs.	0 4.167	-4.167	0.3776	24 24 15.61 115
Control vs.	0 5.792	-5.792	0.3776	24 24 21.69 115
DSS vs. D	9.417 6.375	3.042	0.3776	24 24 11.39 115
DSS vs. D	9.417 4.167	5.25	0.3776	24 24 19.66 115
DSS vs. D	9.417 5.792	3.625	0.3776	24 24 13.58 115
DSS-Cin100	6.375 4.167	2.208	0.3776	24 24 8.271 115
DSS-Cin100	6.375 5.792	0.5833	0.3776	24 24 2.185 115
DSS-Cin200	4.167 5.792	-1.625	0.3776	24 24 6.086 115



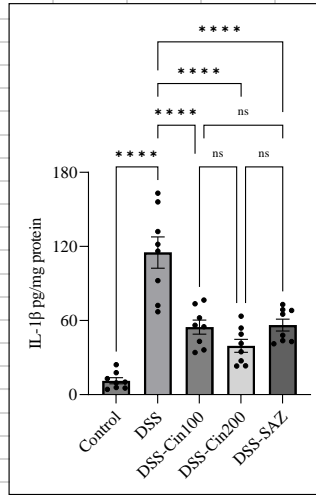
## DSS-Cin-IL6-ELISA:

Control	DSS	DSS-Cin100	DSS-Cin200	DSS-SAZ
25.38312	151.0334	36.61762	31.70833	37.1001
33.89248	92.93752	42.48178	47.27477	36.35765
27.53361	117.7063	67.44186	42.72671	43.51486
37.84943	142.4505	59.17841	22.97464	55.73486
14.50358	78.00801	75.62007	19.87972	53.37971
16.62886	108.9013	66.9317	28.97226	43.32065
11.12404	119.0233	49.3776	48.91726	62.4056
12.33457	104.9249	47.62304	19.45899	46.82283
Table Anal	DSS-Cin-IL6-ELISA			
Data sets	A-E			
ANOVA summary				
F	46.56			
P value	<0.0001			
P value su	****			
Significant	Yes			
R squared	0.8418			
ANOVA ta	SS	DF	MS	F (DFn, Df P value
Treatment	41129	4	10282	F (4, 35) = P<0.0001
Residual (v	7729	35	220.8	
Total	48858	39		
Data summary				
Number of	5			
Number of	40			
Number of	1			
Number of	10			
Alpha	0.05			
Tukey's m	Mean Diff.	95.00% CI of diff	Below threshold?	Summary Adjusted P Value
Control vs.	-91.97	-113.3 to -70.61	Yes	**** <0.0001 A-B
Control vs.	-33.25	-54.61 to -11.89	Yes	*** 0.0007 A-C
Control vs.	-10.33	-31.69 to 11.03	No	ns 0.6375 A-D
Control vs.	-24.92	-46.29 to -3.561	Yes	* 0.0155 A-E
DSS vs. D	58.71	37.35 to 80.08	Yes	**** <0.0001 B-C
DSS vs. D	81.63	60.27 to 103.0	Yes	**** <0.0001 B-D
DSS vs. D	67.04	45.68 to 88.41	Yes	**** <0.0001 B-E
DSS-C100	22.92	1.558 to 44.28	Yes	* 0.0304 C-D
DSS-C100	8.329	-13.03 to 29.69	No	ns 0.7944 C-E
DSS-C200	-14.59	-35.95 to 6.771	No	ns 0.3044 D-E
Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff. n1 n2 q DF
Control vs.	22.41	114.4	-91.97	7.43 8 8 17.5 35
Control vs.	22.41	55.66	-33.25	7.43 8 8 6.329 35
Control vs.	22.41	32.74	-10.33	7.43 8 8 1.967 35
Control vs.	22.41	47.33	-24.92	7.43 8 8 4.744 35
DSS vs. D	114.4	55.66	58.71	7.43 8 8 11.18 35
DSS vs. D	114.4	32.74	81.63	7.43 8 8 15.54 35
DSS vs. D	114.4	47.33	67.04	7.43 8 8 12.76 35
DSS-C100	55.66	32.74	22.92	7.43 8 8 4.363 35
DSS-C100	55.66	47.33	8.329	7.43 8 8 1.585 35
DSS-C200	32.74	47.33	-14.59	7.43 8 8 2.777 35



## DSS-Cin-IL-1 $\beta$ -ELISA:

Control	DSS	DSS-Cin100	DSS-Cin200	DSS-SAZ
4.22	121.67	54.99	23.14	48.12
5.82	132.11	76.63	48.99	68.22
5.29	116.11	62.19	27.42	41.22
24.192	72.21	34.17	53.9	72.92
17.73	92.27	73.62	23.28	68.72
10.11	67.08	43.18	41.43	43.67
12.9	156.03	36.18	63.49	42.9
9.53	163.12	56.22	34.65	65.11
Table Anal	DSS-Cin-IL1 $\beta$ -ELISA			
Data sets	A-E			
ANOVA summary				
F	28.9			
P value	<0.0001			
P value su	****			
Significant	Yes			
R squared	0.7676			
ANOVA ta	SS	DF	MS	F (DFn, Df) P value
Treatment	46126	4	11531	F (4, 35) = P<0.0001
Residual (v	13967	35	399.1	
Total	60093	39		
Data summary				
Number of	5			
Number of	40			
Number of	1			
Number of	10			
Alpha	0.05			
Tukey's m	Mean Diff.	95.00% CI of	Below thresh	Summary Adjusted P Value
Control vs.	-103.9	-132.6 to -75.	Yes	**** <0.0001 A-B
Control vs.	-43.42	-72.14 to -14.	Yes	** 0.001 A-C
Control vs.	-28.31	-57.03 to 0.4	No	ns 0.0549 A-D
Control vs.	-45.14	-73.85 to -16.	Yes	*** 0.0006 A-E
DSS vs. D	60.43	31.71 to 89.1	Yes	**** <0.0001 B-C
DSS vs. D	75.54	46.82 to 104.	Yes	**** <0.0001 B-D
DSS vs. D	58.72	30.00 to 87.4	Yes	**** <0.0001 B-E
DSS-C100	15.11	-13.61 to 43.	No	ns 0.5614 C-D
DSS-C100	-1.713	-30.43 to 27.	No	ns 0.9998 C-E
DSS-C200	-16.82	-45.54 to 11.	No	ns 0.4564 D-E
Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff. n1 n2 q DF
Control vs.	11.22	115.1	-103.9	9.988 8 8 14.7 35
Control vs.	11.22	54.65	-43.42	9.988 8 8 6.148 35
Control vs.	11.22	39.54	-28.31	9.988 8 8 4.009 35
Control vs.	11.22	56.36	-45.14	9.988 8 8 6.391 35
DSS vs. D	115.1	54.65	60.43	9.988 8 8 8.556 35
DSS vs. D	115.1	39.54	75.54	9.988 8 8 10.7 35
DSS vs. D	115.1	56.36	58.72	9.988 8 8 8.313 35
DSS-C100	54.65	39.54	15.11	9.988 8 8 2.139 35
DSS-C100	54.65	56.36	-1.713	9.988 8 8 0.2425 35
DSS-C200	39.54	56.36	-16.82	9.988 8 8 2.382 35



[illegible]

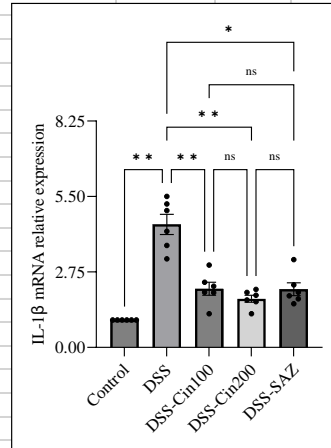


## DSS-Cin-IL17A-ELISA:

Control	DSS	DSS-Cin100	DSS-Cin200	DSS-SAZ				
115.2609	362.9922	140.8297	234.6595	285.0894				
114.3605	412.6884	385.7506	97.6083	194.3788				
138.0362	391.6265	236.4721	175.1243	214.019				
100.7928	489.5732	237.1874	179.1059	190.3755				
134.6219	396.937	201.8706	168.4805	177.6509				
105.0378	248.0007	288.6219	156.2287	253.4768				
119.003	448.7728	267.3442	143.889	210.227				
141.0028	379.266	192.2883	118.3427	178.992				

<b>Control</b>	<b>DSS</b>	<b>DSS-C100</b>	<b>DSS-C200</b>	<b>DSS-SAZ</b>					
1	5.122	4.3889	2.2278	3.1178					
1	6.367	3.0776	3.1187	3.2289					
1	7.377	3.5279	2.6533	1.1167					
1	5.299	2.3889	2.1189	1.9983					
1	4.889	3.1997	1.9822	3.7782					
1	7.299	2.9008	1.45	2.22899					
<b>Table Anal DSS-Cin-IL6-mRNA</b>									
Repeated measures ANOVA summary									
Assume s <sub>i</sub>	No								
F	32.55								
P value	<0.0001								
P value su	****								
Statistical	Yes								
Geisser-G	0.4638								
R squared	0.8669								
Was the matching effective?									
F	0.5607								
P value	0.7288								
P value su	ns								
Is there sig	No								
R squared	0.01832								
ANOVA ta	SS	DF	MS	F (DFn, DFd)	P value				
Treatment	84.85	4	21.21	F (1.855, 9.27) P<0.0001					
Individual (	1.827	5	0.3654	F (5, 20) = 0.51 P=0.7288					
Residual (r	13.03	20	0.6516						
Total	99.71	29							
Data summary									
Number of	5								
Number of	6								
Number of	0								
Number of	1								
Number of	10								
Alpha	0.05								
Tukey's m	Mean Diff.	95.00% CI of	Below threshold	Summary	Adjusted P Value				
Control vs.	-5.059	-6.882 to -3.2	Yes	***	0.0006 A-B				
Control vs.	-2.247	-3.351 to -1.1	Yes	**	0.0024 A-C				
Control vs.	-1.258	-2.198 to -0.3	Yes	*	0.0156 A-D				
Control vs.	-1.578	-3.174 to 0.0	No	ns	0.0521 A-E				
DSS vs. D	2.812	0.5647 to 5.0	Yes	*	0.0206 B-C				
DSS vs. D	3.8	1.814 to 5.78	Yes	**	0.0032 B-D				
DSS vs. D	3.481	0.3563 to 6.6	Yes	*	0.033 B-E				
DSS-C100	0.9888	-0.3276 to 2.3	No	ns	0.1336 C-D				
DSS-C100	0.6692	-1.080 to 2.4	No	ns	0.5854 C-E				
DSS-C200	-0.3196	-2.172 to 1.5	No	ns	0.9498 D-E				
Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF	
Control vs.	1	6.059	-5.059	0.4544	6	6	15.74	5	9
Control vs.	1	3.247	-2.247	0.2751	6	6	11.55	5	9
Control vs.	1	2.258	-1.258	0.2343	6	6	7.598	5	9
Control vs.	1	2.578	-1.578	0.3979	6	6	5.609	5	9
DSS vs. D	6.059	3.247	2.812	0.5601	6	6	7.099	5	9
DSS vs. D									

### DSS-Cin-IL-1 $\beta$ -mRNA:

[illegible]

### DSS-Cin-TNF $\alpha$ -mRNA:

[illegible]

Control	DSS	DSS-Cin100	DSS-Cin200	DSS-SAZ
1	4.226	3.2298	1.88276	2.3778
1	5.3387	2.3778	1.66773	3.27783
1	6.3889	2.8836	2.00938	3.99287
1	4.3387	3.9987	2.2276	1.9997
1	3.9982	2.2356	1.47728	1.366
1	4.9983	1.9927	1.3889	1.667

IL-17A Relative mRNA expression

Group	Mean Expression	Significance vs DSS
Control	~1.0	-
DSS	~5.0	-
DSS-Cin100	~3.0	*
DSS-Cin200	~1.5	*
DSS-SAZ	~2.5	ns

Table Anal DSS-Cin-IL17-mRNA	
Repeated measures ANOVA summary	
Assume s No	
F	33.61
P value	0.0002
P value su	***
Statistical Yes	
Geisser-G	0.4023
R squared	0.8705

Was the matching effective?	
F	2.514
P value	0.0638
P value su	ns
Is there sig	No
R squared	0.07528

ANOVA ta	SS	DF	MS	F (DFn, DFd)	P value
Treatment	51	4	12.75	F (1.609, 8.0)	P=0.0002
Individual (	4.77	5	0.9539	F (5, 20) = 2	P=0.0638
Residual (r	7.588	20	0.3794		
Total	63.36	29			

Data summary	
Number of	5
Number of	6
Number of	0

Number of	1
Number of	10
Alpha	0.05

Tukey's m	Mean Diff.	95.00% CI of dif	Below threshold?	Summary	Adjusted P Value
Control vs.	-3.881	-5.346 to -2.417	Yes	***	0.0007 A-B
Control vs.	-1.786	-3.007 to -0.566	Yes	*	0.0106 A-C
Control vs.	-0.7756	-1.304 to -0.247	Yes	*	0.0105 A-D
Control vs.	-1.447	-3.095 to 0.200	No	ns	0.08 A-E
DSS vs. D	2.095	0.02800 to 4.16	Yes	*	0.0475 B-C
DSS vs. D	3.106	1.621 to 4.590	Yes	**	0.0021 B-D
DSS vs. D	2.435	1.588 to 3.282	Yes	***	0.0005 B-E
DSS-Cin10	1.011	0.2676 to 1.754	Yes	*	0.0146 C-D
DSS-Cin10	0.3395	-1.589 to 2.268	No	ns	0.9464 C-E
DSS-Cin20	-0.6713	-2.174 to 0.831	No	ns	0.4649 D-E

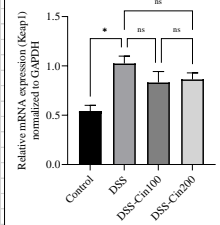
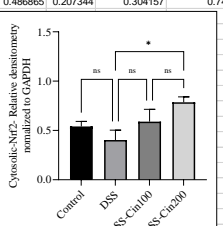
  

Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Control vs.	1	4.881	-3.881	0.3651	6	6	15.03	5
Control vs.	1	2.786	-1.786	0.3042	6	6	8.305	5
Control vs.	1	1.776	-0.7756	0.1317	6	6	8.327	5
Control vs.	1	2.447	-1.447	0.4108	6	6	4.981	5
DSS vs. D	4.881	2.786	2.095	0.5153	6	6	5.75	5
DSS vs. D	4.881	1.776	3.106	0.3701	6	6	11.87	5
DSS vs. D	4.881	2.447	2.435	0.2111	6	6	16.31	5
DSS-Cin10	2.786	1.776	1.011	0.1853	6	6	7.716	5
DSS-Cin10	2.786	2.447	0.3395	0.4807	6	6	0.9987	5
DSS-Cin20	1.776	2.447	-0.6713	0.3746	6	6	2.534	5

### DSS-Cin-COX2 protein and mRNA:

[illegible]

**DSS-Cin-Keap1, Nrf2 protein:**

Control	DSS	DSS-Cin100	DSS-Cin200		Control	DSS	DSS-Cin100	DSS-Cin200	
0.658177	1.16595	0.918419	0.972059		0.44442	0.269811	0.755048	1.858767	
0.489079	0.994904	0.609635	0.873918		0.436189	0.568749	0.867555	1.66965	
0.481106	0.913083	0.966696	0.745264		0.357631	0.563747	0.784555	1.834917	
					0.473034	0.469346	0.767393	1.166955	
<b>Keap-1 Western</b>					<b>Nuclear Nr12</b>				
Table Anal DSS-Cin-Keap1					Table Anal DSS-Cin-Nuclear-Nr12				
Data sets A-D					Data sets A-D				
ANOVA summary					ANOVA summary				
F	6.259				F	3.212			
P value	0.0171				P value	0.0617			
P value su *					P value su ns				
Significant: Yes					Significant: No				
R squared	0.7012				R squared	0.4454			
									
ANOVA ta SS					ANOVA ta SS				
Treatment	0.3621	3	0.1207	F (DFn, DfP value	Treatment	0.3014	3	0.1005	F (3, 12) = P=0.0617
Residual (i	0.1543	8	0.01928	F (3, 8) = (P=0.0171	Residual (i	0.3754	12	0.03128	
Total	0.5164	11			Total	0.6768	15		
Data summary					Data summary				
Number of	4				Number of	4			
Number of	12				Number of	16			
Number of	1				Number of	1			
Number of	6				Number of	6			
Alpha	0.05				Alpha	0.05			
Tukey's m Mean Diff. 95.00% CI of diff. Below threshold?					Tukey's m Mean Diff. 95.00% CI of di Below threshold?				
Control vs.	-0.4819 -0.8450 to -0.1188	Yes		Summary	Adjusted P Value				
Control vs.	-0.2888 -0.6519 to 0.0743	No	ns		0.012 A-B				
Control vs.	-0.321 -0.6841 to 0.0421	No	ns		0.0845 A-D				
DSS vs. D	0.1931 -0.1700 to 0.5562	No	ns		0.3817 B-C				
DSS vs. D	0.1609 -0.2022 to 0.5240	No	ns		0.5227 B-D				
DSS-Cin1C	-0.0322 -0.3953 to 0.3309	No	ns		0.9914 C-D				
Test detail: Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF					Test detail: Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF				
Control vs.	0.5428	1.025	0.1134	3	3	6.01	8		
Control vs.	0.5428	0.8316	-0.2888	0.1134	3	3	3.602	8	
Control vs.	0.5428	0.8637	-0.321	0.1134	3	3	4.003	8	
DSS vs. D	1.025	0.8316	0.1931	0.1134	3	3	2.408	8	
DSS vs. D	1.025	0.8637	0.1609	0.1134	3	3	2.007	8	
DSS-Cin1C	0.8316	0.8637	-0.0322	0.1134	3	3	0.4016	8	
ANOVA ta SS					ANOVA ta SS				
Treatment	0.3014	3	0.1005	F (3, 12) = P=0.0617	Treatment	0.3014	3	0.1005	F (3, 12) = P=0.0617
Residual (i	0.3754	12	0.03128		Residual (i	0.3754	12	0.03128	
Total	0.6768	15			Total	0.6768	15		
Data summary					Data summary				
Number of	4				Number of	4			
Number of	16				Number of	16			
Number of	1				Number of	1			
Number of	6				Number of	6			
Alpha	0.05				Alpha	0.05			
Tukey's m Mean Diff. 95.00% CI of di Below threshold?					Tukey's m Mean Diff. 95.00% CI of di Below threshold?				
Control vs.	-0.1378 -0.2335 to 0.501	No	ns	Summary	Adjusted P Value				
Control vs.	-0.04791 -0.4192 to 0.321	No	ns		0.6954				
Control vs.	-0.2452 -0.6165 to 0.121	No	ns		0.98				
DSS vs. D	-0.1857 -0.5569 to 0.181	No	ns		0.2553				
DSS vs. D	-0.383 -0.7542 to -0.01	Yes	*		0.4756				
DSS-Cin1C	-0.1973 -0.5686 to 0.171	No	ns		0.0425				
Test detail: Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF					Test detail: Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF				
Control vs.	0.5409	0.4032	0.1378	0.1251	4	4	1.558	12	
Control vs.	0.5409	0.5888	-0.04791	0.1251	4	4	0.5417	12	
Control vs.	0.5409	0.7861	-0.2452	0.1251	4	4	2.773	12	
DSS vs. D	0.4032	0.5888	-0.1857	0.1251	4	4	2.099	12	
DSS vs. D	0.4032	0.7861	-0.383	0.1251	4	4	4.331	12	
DSS-Cin1C	0.5888	0.7861	-0.1973	0.1251	4	4	2.231	12	
ANOVA ta SS					ANOVA ta SS				
Treatment	0.3753	3	0.1251	F (3, 12) = P=0.0034	Treatment	0.3753	3	0.1251	F (3, 12) = P=0.0034
Residual (i	0.07367	3	0.02456	F (3, 9) = (P=0.5688	Residual (i	0.07367	3	0.02456	F (3, 9) = (P=0.5688
Total	0.449	6			Total	0.449	6		
Data summary					Data summary				
Number of	4				Number of	4			
Number of	4				Number of	4			
Number of	0				Number of	0			
Number of	1				Number of	1			
Alpha	0.05				Alpha	0.05			
Tukey's m Mean Diff. 95.00% CI Below thre					Tukey's m Mean Diff. 95.00% CI Below thre				
Control vs.	-0.04009 -0.4441 to No	ns		Summary	Adjusted P Value				
Control vs.	-0.3658 -0.5430 to Yes	**			0.9589 A-B				
Control vs.	-1.205 -2.063 to -0.346	*			0.0065 A-C				
DSS vs. D	-0.3257 -0.5971 to -0.0544	*			0.0198 A-D				
DSS vs. D	-0.3257 -0.5971 to -0.0544	*			0.0305 B-D				
DSS vs. D	-1.165 -2.061 to -0.269	*			0.0245 B-D				
DSS-Cin1C	-0.8389 -1.614 to -0.063	*			0.0245 C-D				
Test detail: Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF					Test detail: Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF				
Control vs.	0.4278	0.4679	-0.04009	0.08373	4	4	0.6772	3	
Control vs.	0.4278	0.7936	-0.3658	0.03672	4	4	14.09	3	
Control vs.	0.4278	1.633	-1.205	0.1779	4	4	9.575	3	
DSS vs. D	0.4679	0.7936	-0.3257	0.05623	4	4	8.192	3	
DSS vs. D	0.4679	1.633	-1.165	0.1856	4	4	8.872	3	
DSS-Cin1C	0.7936	1.633	-0.8389	0.1605	4	4	7.391	3	

**Table Anal DSS-Cin-HO1-Western**  
Data sets :A-D

Control	DSS	DSS-Cin100	DSS-Cin200
0.876514	0.588663	0.551396	0.90663
0.857208	0.519801	0.504068	0.688507
0.604483	0.356882	0.450949	0.674108
0.981146	0.330014	0.911198	0.866003

**Table Anal DSS-Cin-NQO1-mRNA**  
Data sets :A-D

Control	DSS	DSS-Cin100	DSS-Cin200
1	0.72	1.11	1.5002
1	0.66	0.9166	2.124
1	0.68	0.9	1.887
1	0.55	0.5874	2.11
1	0.61	1.1	1.89
1	0.45	0.792	1.8833

**Table Anal DSS-Cin-HO1-Western**  
Data sets :A-D

Control	DSS	DSS-Cin100	DSS-Cin200
1.011109	0.308428	0.582038	0.932501
0.85943	0.416965	0.474177	0.705512
0.867602	0.520347	0.631576	0.80086

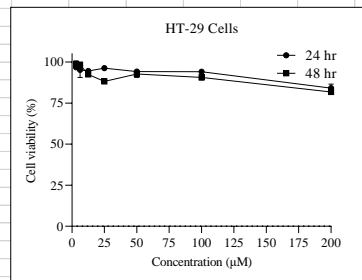
**Table Anal DSS-Cin-HO1-mRNA**  
Data sets :A-D

Control	DSS	DSS-Cin100	DSS-Cin200
1	0.84	1.882	2.9002
1	0.886	1.566	3.124
1	0.5667	1.277	2.288
1	0.75	1.2209	3.7566
1	0.9553	2.366	3.15
1	0.66	0.8276	2.7833

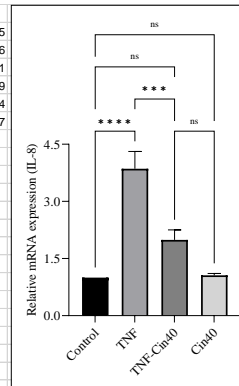


[illegible]

### HT-29-Cell viability, IL8 & CXCL-1 mRNA:



	Control	TNF	TNF-Cin40	Cin40
IL8-mRNA	1	3.6	1.819	1.195
	1	4.599	2.183	1.016
	1	3.031	1.292	0.91
	1	5.751	2.7981	1.19
	1	2.99	2.579	0.964
	1	3.18	1.256	1.077

Table Anal HT-29-IL8-mRNA

Data sets : A-D
-----------------

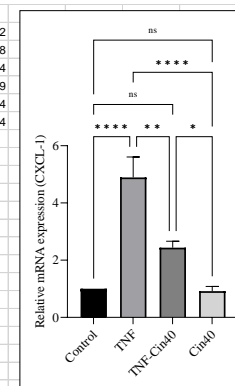
ANOVA summary	
F	25.86
P value	<0.0001
P value su	****
Significant	Yes
R squared	0.795

Number of	1
Number of	6
Alpha	0.05

Tukey's m	Mean Diff.	95.00% CI Below thre	Summary	Adjusted P Value
Control vs.	-2.859	-3.897 to 0	****	<0.0001 A-B
Control vs.	-0.9879	-2.026 to 0	ns	0.0658 A-C
Control vs.	-0.05867	-1.097 to 0	ns	0.9985 A-D
TNF vs. Th	1.871	0.8323 to 2	***	0.0003 B-C
TNF vs. Th	2.8	1.761 to 3	****	<0.0001 B-D
TNF-Cin40	0.9292	-0.1092 to No	ns	0.0897 C-D

Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Control vs. TNF	1	3.859	-2.859	0.371	6	6	10.9	20
Control vs. TNF + C	1	1.988	-0.9879	0.371	6	6	3.766	20
Control vs. TNF + C + I	1	1.059	-0.05867	0.371	6	6	0.2236	20
TNF vs. TNF + C	3.859	1.988	1.871	0.371	6	6	7.131	20
TNF vs. TNF + C + I	3.859	1.059	2.8	0.371	6	6	10.67	20
TNF + C vs. TNF + C + I	1.988	1.059	0.9292	0.371	6	6	3.542	20

	Control	TNF	TNF-Cin40	Cin40
RN	1	3.099	2.044	1.542
	1	4.578	1.901	0.48
	1	3.149	2.53	0.484
	1	7.751	1.984	0.89
	1	5.778	3.187	1.004
	1	4.993	2.976	1.1124

Table Anal HT-29-CXCL1

Data sets	A-D
-----------	-----

ANOVA summary	
F	23.42
P value	<0.0001
P value su	****
Significant	Yes
R squared	0.7784

ANOVA	SS	DF	MS	F (DFn, Df P value
Treatment	61.99	3	20.66	F (3, 20) = P<0.0001
Residual (v	17.64	20	0.8822	
Total	79.63	23		

	Data summary	
	Number of	
	Number of	

Number of	
Number of	
Alpha	

Tukey's m	Mean Diff.	95.00% CI	Below thr	Summary	Adjusted P Value
Control vs.	-3.891	-5.409 to -2.385	Yes	****	<0.0001 A-B
Control vs.	-1.437	-2.955 to 0	No	ns	0.0675 A-B
Control vs.	0.08127	-1.437 to 1	No	ns	0.9988 A-D
TNF vs. TN	2.454	0.9365 to 3.973	Yes	**	0.0011 B-C
TNF vs. Ci	3.973	2.455 to 5.495	Yes	****	<0.0001 B-D
TNF-Cin40	1.518	0.004302 to 3.031	Yes	*	0.0499 C-D

Test detail	Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Control vs. TNF	1	4.891	-3.891	0.5423	6	6	10.15	20
Control vs. TNF-Cin40	1	2.437	-1.437	0.5423	6	6	3.747	20
Control vs. TNF vs. TN	1	0.9187	0.08127	0.5423	6	6	0.2119	20
TNF vs. TN	4.891	2.437	2.454	0.5423	6	6	6.429	20
TNF vs. Ci	4.891	0.9187	3.973	0.5423	6	6	10.36	20
TNF-Cin40	2.437	0.9187	1.518	0.5423	6	6	3.959	20

## HT-29 PPAR $\gamma$ protein expression, SiRNA treated IL8, CXCL1 mRNA:

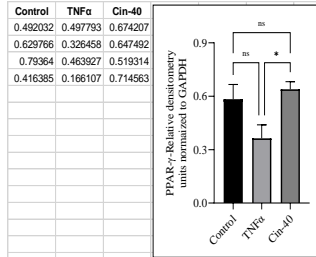


Table Anal HT-29-Cin-PPAR $\gamma$ -Western Blot  
Data sets: A-C

ANOVA summary	
F	4.422
P value	0.046
P value su *	
Significant: Yes	
R squared	0.4956

ANOVA ta SS	DF	MS	F (DFn, DfP value)
Treatment	0.1694	2	0.08471 F (2, 9) = 4P=0.0460
Residual (i)	0.1724	9	0.01915
Total	0.3418	11	

Data summary	
Number of:	3
Number of:	12
Number of:	1
Number of:	3
Alpha	0.05

Tukey's m Mean Diff. 95.00% CI Below thre Summary Adjusted P Value	
Control vs.:	0.2194 -0.05385 to No ns 0.117 A-B
Control vs.:	-0.05594 -0.3292 to No ns 0.8362 A-C
TNFα vs. C	-0.2753 -0.5486 to Yes * 0.0484 B-C

Test detail Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Control vs.:	0.583	0.3636	0.2194	0.09786	4	4	3.17
Control vs.:	0.583	0.6389	-0.05594	0.09786	4	4	0.8083
TNFα vs. C	0.3636	0.6389	-0.2753	0.09786	4	4	3.979

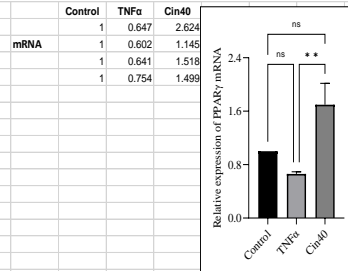


Table Anal HT-29-TNF-Cin-PPAR $\gamma$ -mRNA  
Data sets: A-C

ANOVA summary	
F	8.04
P value	0.0099
P value su **	
Significant: Yes	
R squared	0.6411

ANOVA ta SS	DF	MS	F (DFn, DfP value)
Treatment	2.23	2	1.115 F (2, 9) = 4P=0.0099
Residual (i)	1.248	9	0.1387
Total	3.478	11	

Data summary	
Number of:	3
Number of:	12
Number of:	1
Number of:	3
Alpha	0.05

Tukey's m Mean Diff. 95.00% CI Below thre Summary Adjusted P Value	
Control vs.:	0.339 -0.3962 to No ns 0.4363 A-B
Control vs.:	-0.6965 -1.432 to 0 No ns 0.0629 A-C
TNFα vs. C	-1.036 -1.771 to -4 Yes ** 0.0087 B-C

Test detail Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Control vs.:	1	0.661	0.339	0.2633	4	4	1.821
Control vs.:	1	1.697	-0.6965	0.2633	4	4	3.741
TNFα vs. C	0.661	1.697	-1.036	0.2633	4	4	5.562

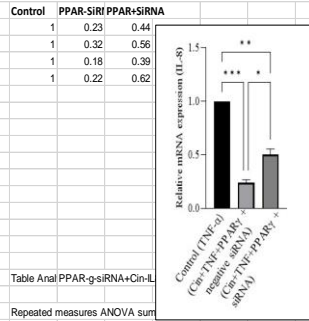


Table Anal PPAR- $\gamma$ -siRNA+Cin-IL  
Data sets: A-C

ANOVA summary	
F	156.3
P value	<0.0001
P value su ***	
Significant: Yes	
R squared	0.9812

ANOVA ta SS	DF	MS	F (DFn, DfP value)
Treatment	1.199	2	0.5994 F (1, 48, 4P<0.0001
Individual (i)	0.02113	3	0.007044 F (3, 6) = 4P=0.2411
Residual (i)	0.02302	6	0.003836
Total	1.243	11	

Data summary	
Number of:	3
Number of:	4
Number of:	0

Number of:	1
Number of:	3
Alpha	0.05

Tukey's m Mean Diff. 95.00% CI Below thre Summary Adjusted P Value	
Control(TN	0.7625 0.6390 to (Yes *** 0.0002 A-B
Control(TN	0.4975 0.2761 to (Yes ** 0.0053 A-C
Column B	-0.265 -0.4554 to Yes * 0.0205 B-C

Test detail Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Control(TN	1	0.2375	0.7625	0.02955	4	4	36.5
Control(TN	1	0.5025	0.4975	0.05297	4	4	13.28
Column B	0.2375	0.5025	-0.265	0.04555	4	4	8.227

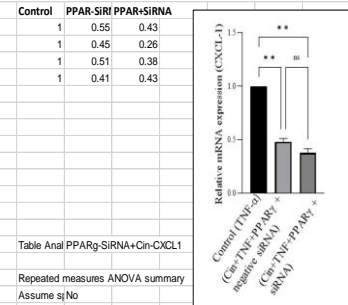


Table Anal PPAR- $\gamma$ -siRNA+Cin-CXCL1

ANOVA summary	
Assume s/No	
F	147.7
P value	<0.0001
P value su ****	
Statistical: Yes	
Geisser-Gi	0.8688
R squared	0.9801

ANOVA ta SS	DF	MS	F (DFn, DfP value)
Treatment	0.8961	2	0.448 F (1, 738, 4P<0.0001
Individual (i)	0.0127	3	0.004233 F (3, 6) = 4P=0.3323
Residual (i)	0.0182	6	0.003033
Total	0.927	11	

Data summary	
Number of:	3
Number of:	4
Number of:	0

Number of:	1
Number of:	3
Alpha	0.05

Tukey's m Mean Diff. 95.00% CI Below thre Summary Adjusted P Value	
Column A	0.52 0.3901 to (Yes ** 0.001 A-B
Column A	0.625 0.4574 to (Yes ** 0.0012 A-C
Column B	0.105 -0.08071 to No ns 0.1887 B-C

Test detail Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Column A	1	0.48	0.52	0.03109	4	4	23.65
Column A	1	0.375	0.625	0.0401	4	4	22.04
Column B	0.48	0.375	0.105	0.04444	4	4	3.341

### HT-29 SiRNA treated PPAR $\gamma$ protein and mRNA expression:

Control	PARg-siRNA
0.658262	0.175008
0.737216	0.363874
0.693641	0.214742
0.725567	0.288437

Relative expression of PPAR- $\gamma$  mRNA compared to vehicle

Control (PPAR- $\gamma$  -ve siRNA)

PPAR- $\gamma$ -siRNA

Column B	Data Set-B
vs.	vs.
Column A	Data Set-A

Unpaired t test	
P value	<0.0001
P value su	****
Significant	Yes
One- or tw	Two-tailed
t, df	t=9.780, df=6
How big is the difference?	
Mean of cc	0.7037
Mean of cc	0.2605
Difference	-0.4432 $\pm$ 0.04531
95% confic	-0.5540 to -0.3323
R squared	0.941
F test to compare variances	
F, DFn, Df	5.540, 3, 3
P value	0.1934
P value su ns	
Significant	No
Data analyzed	
Sample siz	4
Sample siz	4

Control	PARg-siRNA
1	0.23
1	0.14
1	0.117
1	0.192

Relative mRNA expression (PPAR- $\gamma$ )

Control

PPAR-g-siRNA

Column B	PPARg-siRNA
vs.	vs.
Column A	Control

Unpaired t test	
P value	<0.0001
P value su	****
Significant	Yes
One- or tw	Two-tailed
Welch-cor	t=32.58, df=3.000
How big is the difference?	
Mean of cc	1
Mean of cc	0.1698
Difference	-0.8303 $\pm$ 0.02548
95% confic	-0.9113 to -0.7492
R squared	0.9972
F test to compare variances	
F, DFn, Df	Infinity, 3, 3
P value	<0.0001
P value su	****
Significant	Yes
Data analyzed	
Sample siz	4
Sample siz	4

## PPAR $\gamma$ Promoter assay (12 h & 24 h):

No vector control	PPRE	PPRE-Cin40	PPRE-GW1929	PPRE-GW9662						No vector control	PPRE	PPRE-Cin40	PPRE-GW1929	PPRE-GW9662						
551	618	2520	1558	613						551	1745	4845	3958	1663						
240	769	1915	1420	951						478	1468	3944	4121	1781						
360	713	2103	3344	729						729	1135	6471	5022	1803						
272	744	1833	1961	986						523	968	3625	4195	2155						
29	542	1559	1164	705						64	770	3924	4020	1473						
633	852	1874	1527	616						676	1121	5958	4536	2138						

Table Anal HT-29-PPAR $\gamma$ -Promoter assay-12hr  
Data sets: A-E

ANOVA summary

F 19.6

P value <0.0001

P value su \*\*\*\*

Significant Yes

R squared 0.7582

Brown-Forsythe test

F (DFn, Df) 1.192 (4, 25)

P value 0.3388

P value su ns

Are SDs si No

Bartlett's test

Bartlett's s 21.7

P value 0.0002

P value su \*\*\*

Are SDs si Yes

ANOVA ta SS DF MS F (DFn, Df) P value

Treatment 12679913 4 3169978 F (4, 25) = 19.60 P<0.0001

Residual (v 4043694 25 161748

Total 16723607 29

Data summary

Number of 5

Number of 30

Number of 1

Number of 10

Alpha 0.05

Table Anal HT-29-PPAR $\gamma$ -promoter assay 24 hr

Repeated measures ANOVA summary

Assume si No

F 78.32

P value <0.0001

P value su \*\*\*\*

Statistical Yes

Geisser-Gi 0.3431

R squared 0.94

Was the matching effective?

F 2.477

P value 0.0668

P value su ns

Is there sig No

R squared 0.03583

ANOVA ta SS DF MS F (DFn, Df) P value

Treatment 87878622 4 21969656 F (1.373, 6) P<0.0001

Individual ( 3474088 5 694818 F (5, 20) = P=0.0668

Residual ( 5610517 20 280526

Total 96963227 29

Data summary

Number of 5

Number of 6

Number of 0

Number of 1

Number of 10

Alpha 0.05

Tukey's m Mean Diff. 95.00% CI Below threshold Summary Adjusted P Value

No vector ( -697.7 -1238 to -1 Yes \* 0.0182 A-B

No vector ( -4291 -5988 to -2 Yes \*\*\* 0.0009 A-C

No vector ( -3805 -4305 to -3 Yes \*\*\*\* <0.0001 A-D

No vector ( -1332 -1682 to -9 Yes \*\*\* 0.0001 A-E

PPRE vs. -3593 -5551 to -1 Yes \*\* 0.0039 B-C

PPRE vs. -3108 -4075 to -2 Yes \*\*\* 0.0003 B-D

PPRE vs. -634.3 -1393 to 1 No ns 0.0947 B-E

PPRE-Cin 485.8 -952.7 to 1 No ns 0.6758 C-D

PPRE-Cin 2959 1046 to 48 Yes \*\* 0.0083 C-E

PPRE-GW 2473 1816 to 31 Yes \*\*\* 0.0001 D-E

Test detail Mean 1 Mean 2 Mean Diff. SE of diff. n1 n2 q DF

No vector ( 503.5 1201 -697.7 134.7 6 6 7.323 5

No vector ( 503.5 4795 -4291 423 6 6 14.35 5

No vector ( 503.5 4309 -3805 124.7 6 6 43.16 5

No vector ( 503.5 1836 -1332 87.3 6 6 21.58 5

PPRE vs. 1201 4795 -3593 488 6 6 10.41 5

PPRE vs. 1201 4309 -3108 241.1 6 6 18.23 5

PPRE vs. 1201 1836 -634.3 189.2 6 6 4.741 5

PPRE-Cin 4795 4309 485.8 358.8 6 6 1.916 5

PPRE-Cin 4795 1836 2959 476.8 6 6 8.776 5

PPRE-GW 4309 1836 2473 163.8 6 6 21.36 5