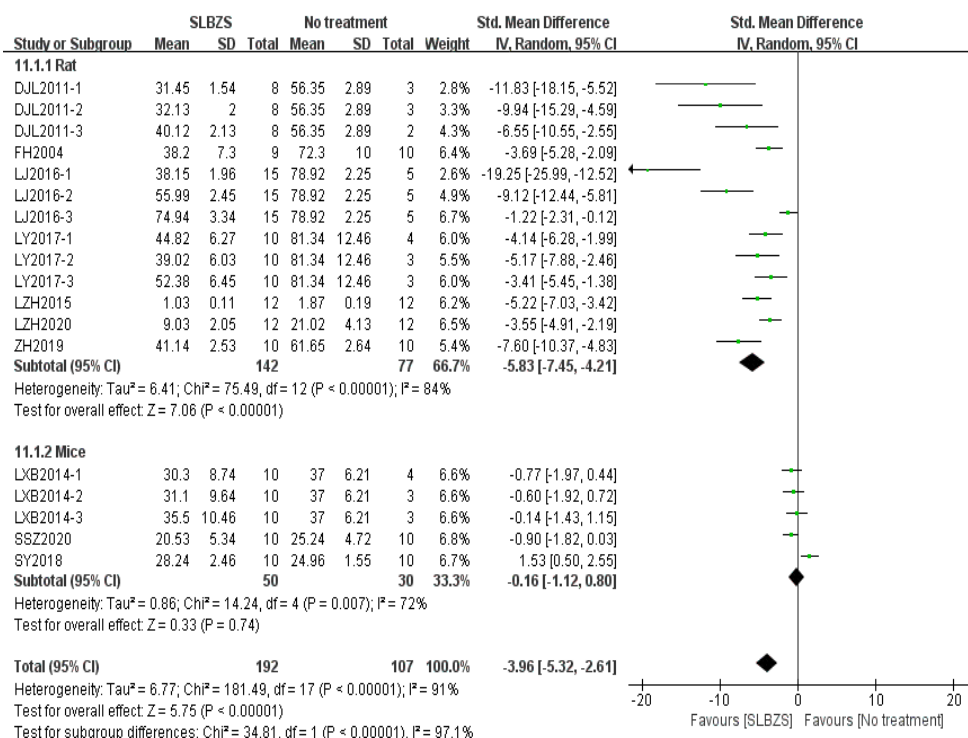
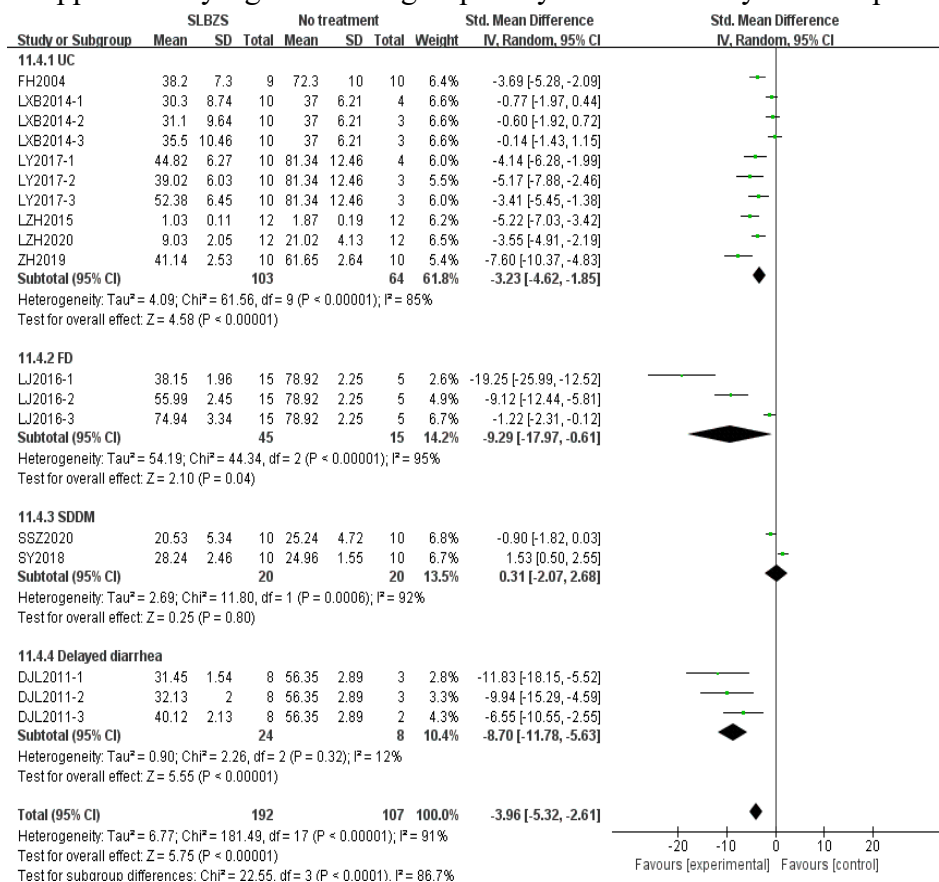
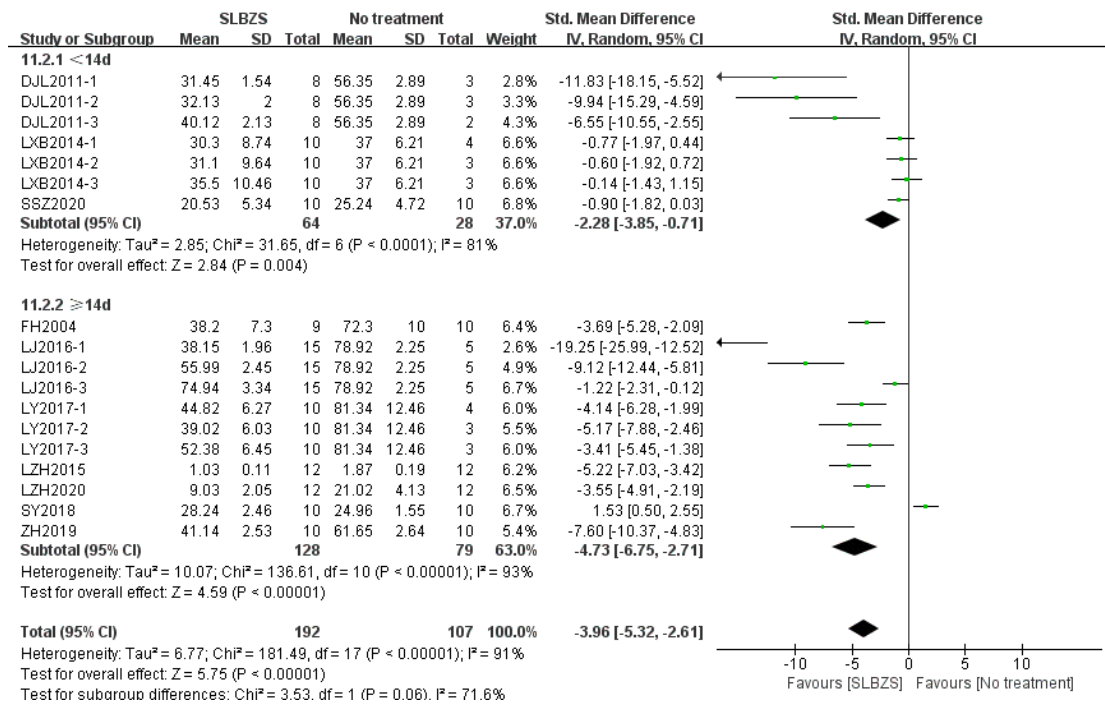
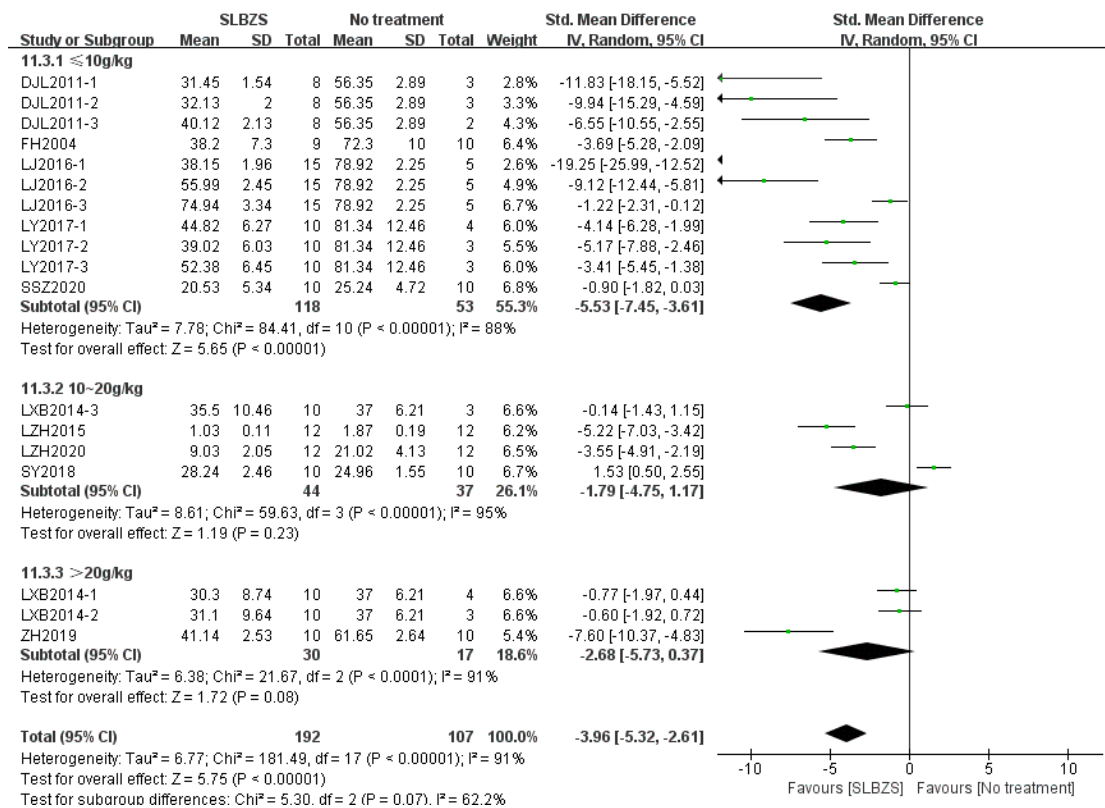
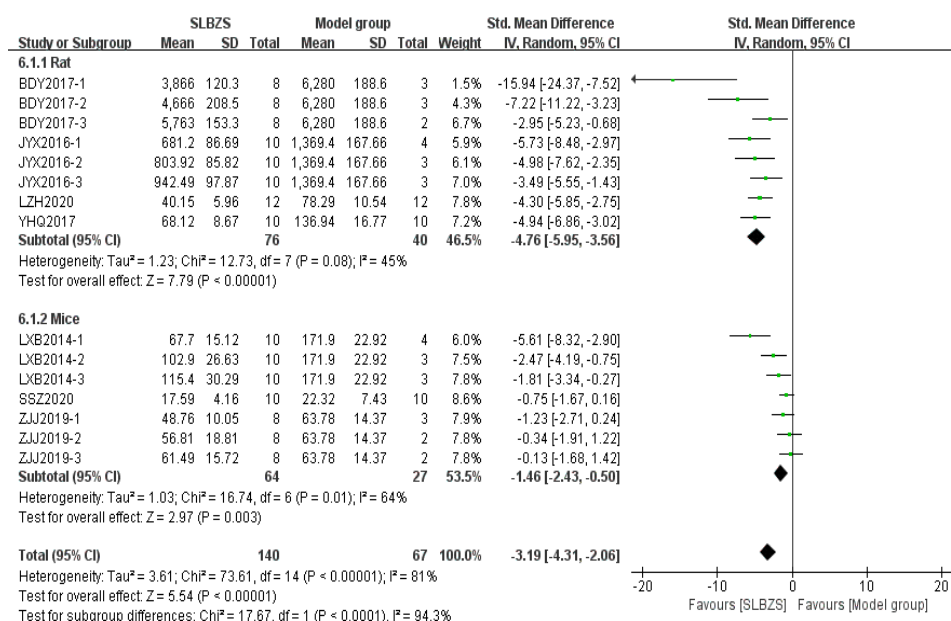
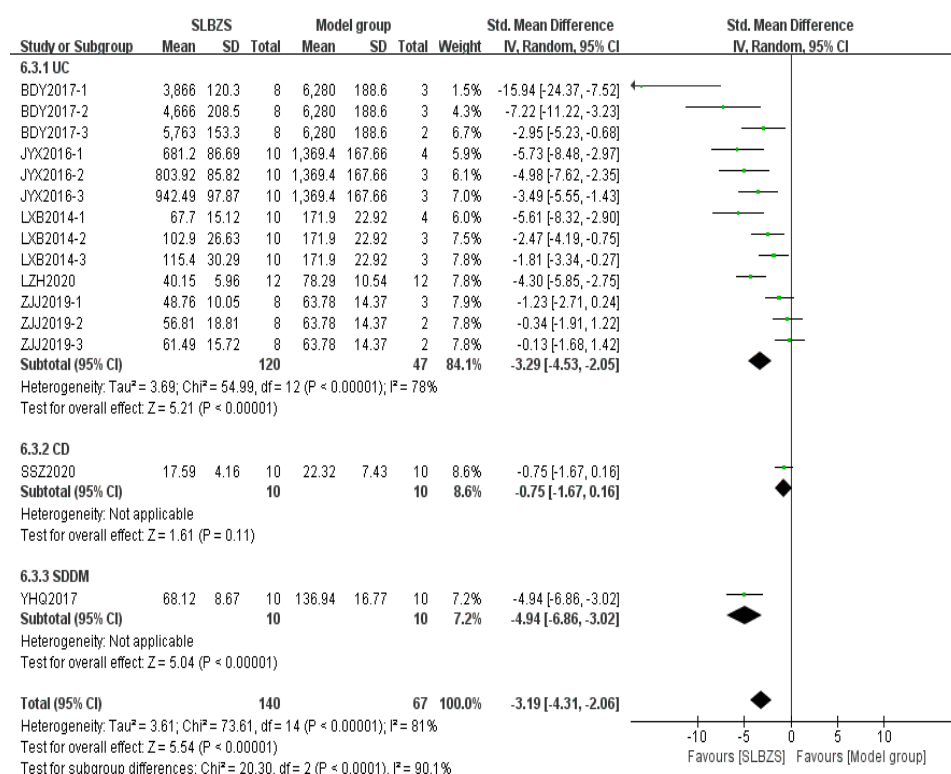
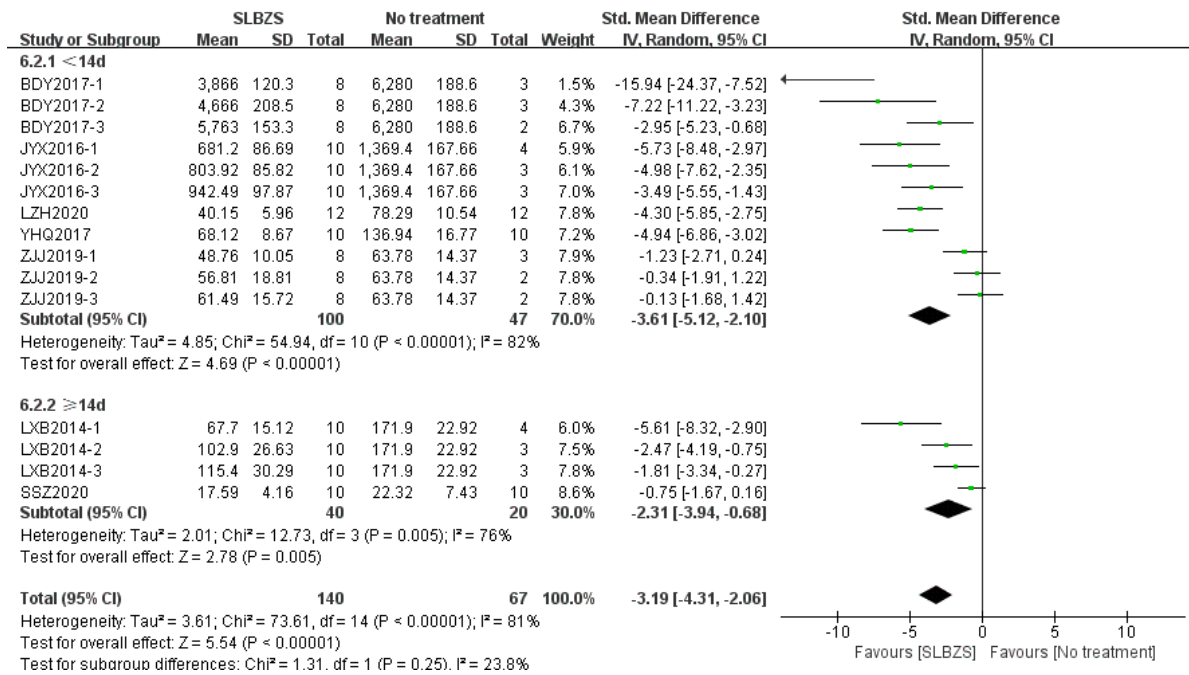
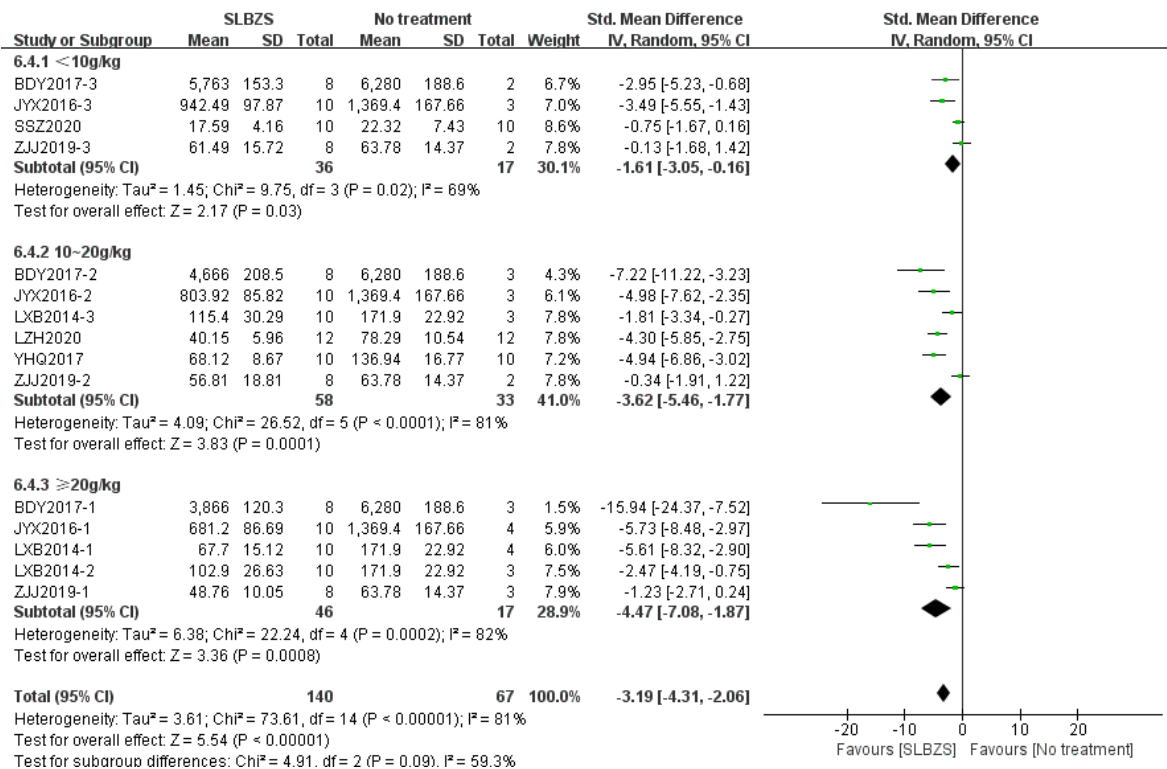


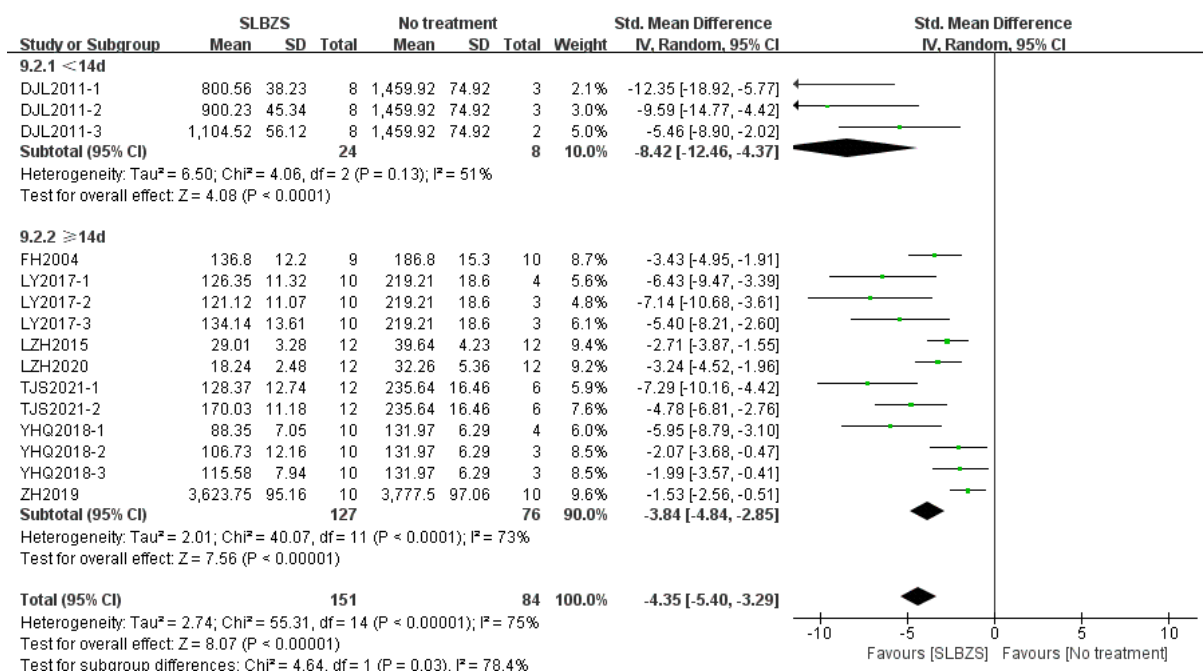
## Supplementary Figure

Supplementary figure S1 Subgroup analysis of TNF- $\alpha$  by animal speciesSupplementary figure S2 Subgroup analysis of TNF- $\alpha$  by disease model

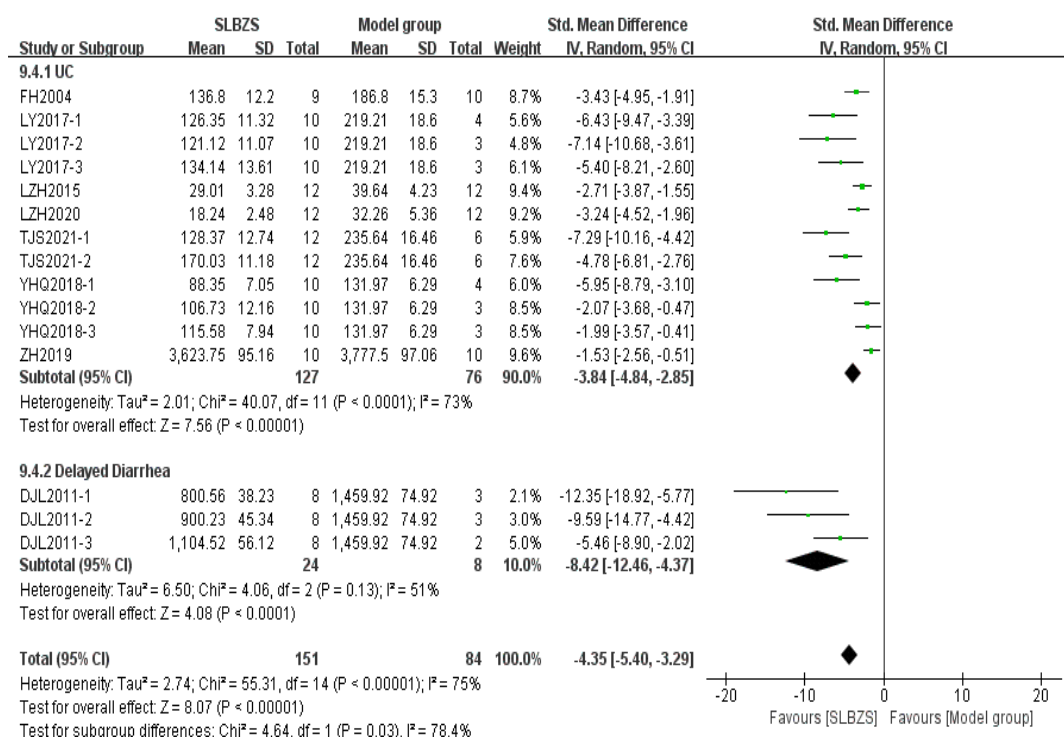
Supplementary figure S3 Subgroup analysis of TNF- $\alpha$  by different durationSupplementary figure S4 Subgroup analysis of TNF- $\alpha$  by different doses

Supplementary figure S5 Subgroup analysis of IL-1 $\beta$  by animal speciesSupplementary figure S6 Subgroup analysis of IL-1 $\beta$  by disease model

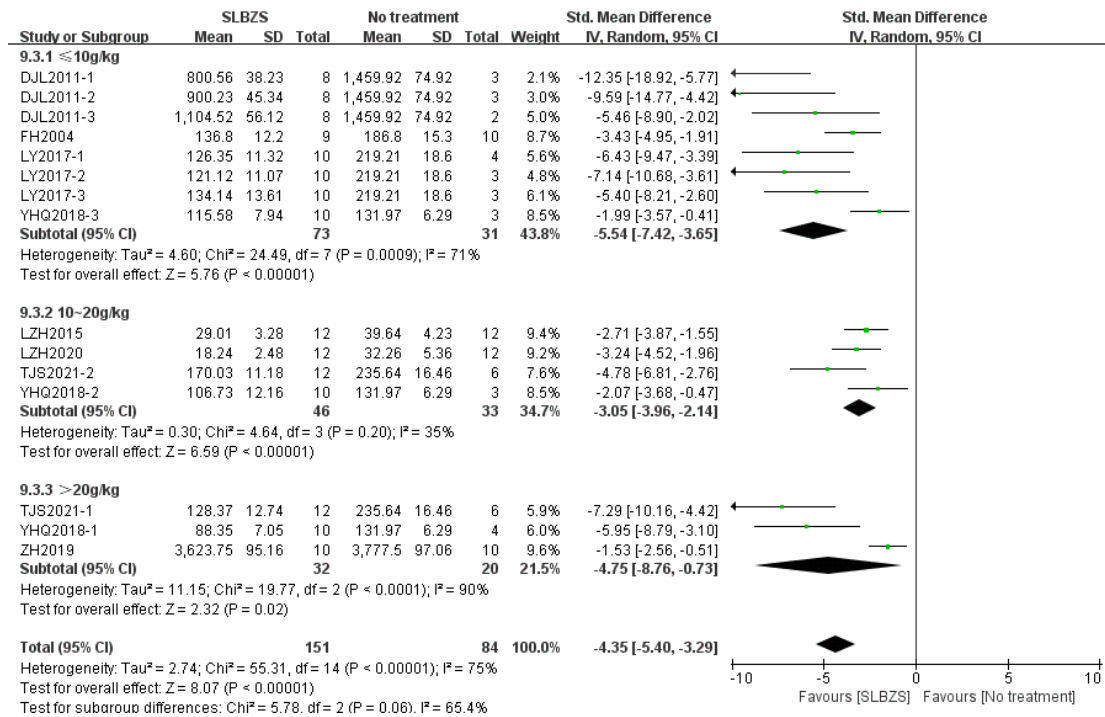
Supplementary figure S7 Subgroup analysis of IL-1 $\beta$  by in different durationSupplementary figure S8 Subgroup analysis of IL-1 $\beta$  by different doses



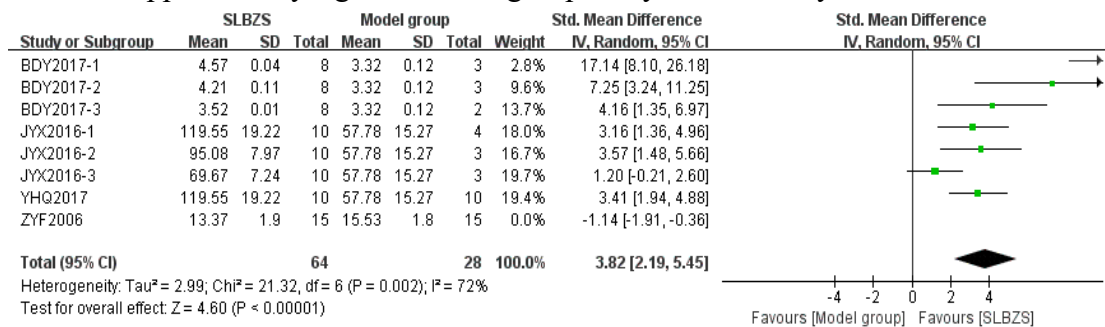
Supplementary figure S9 Subgroup analysis of IL-6 by disease model



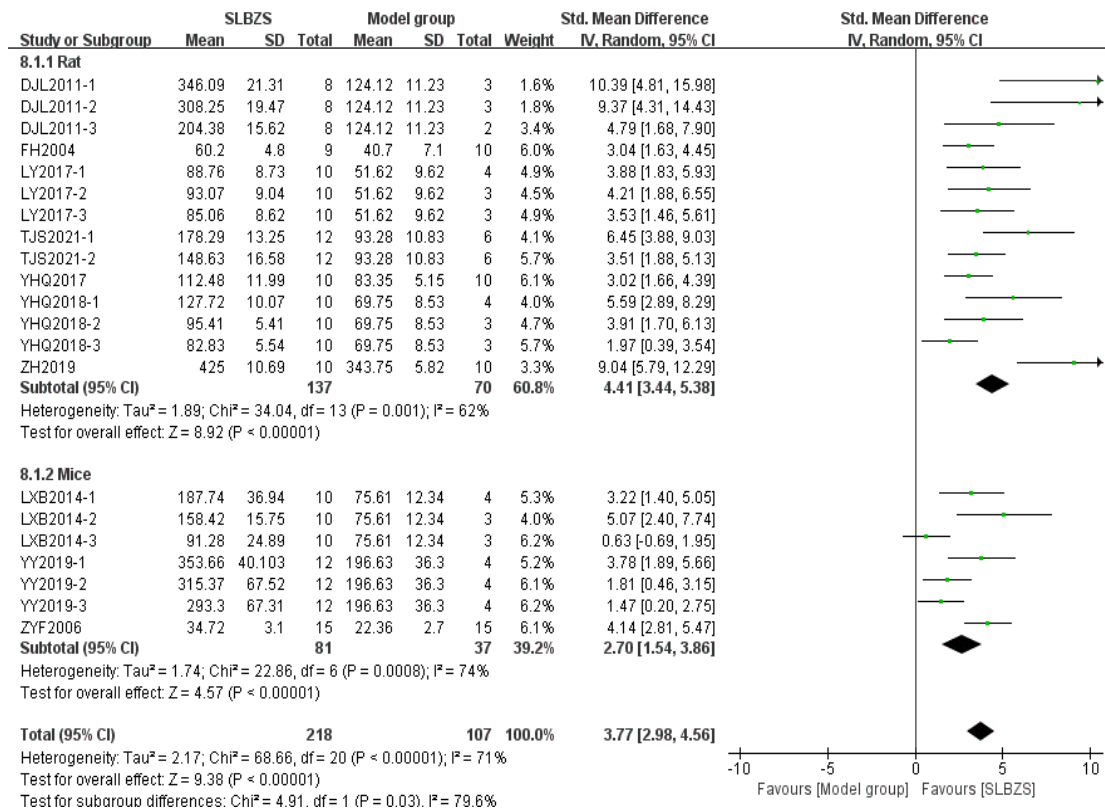
Supplementary figure S10 Subgroup analysis of IL-6 by different duration



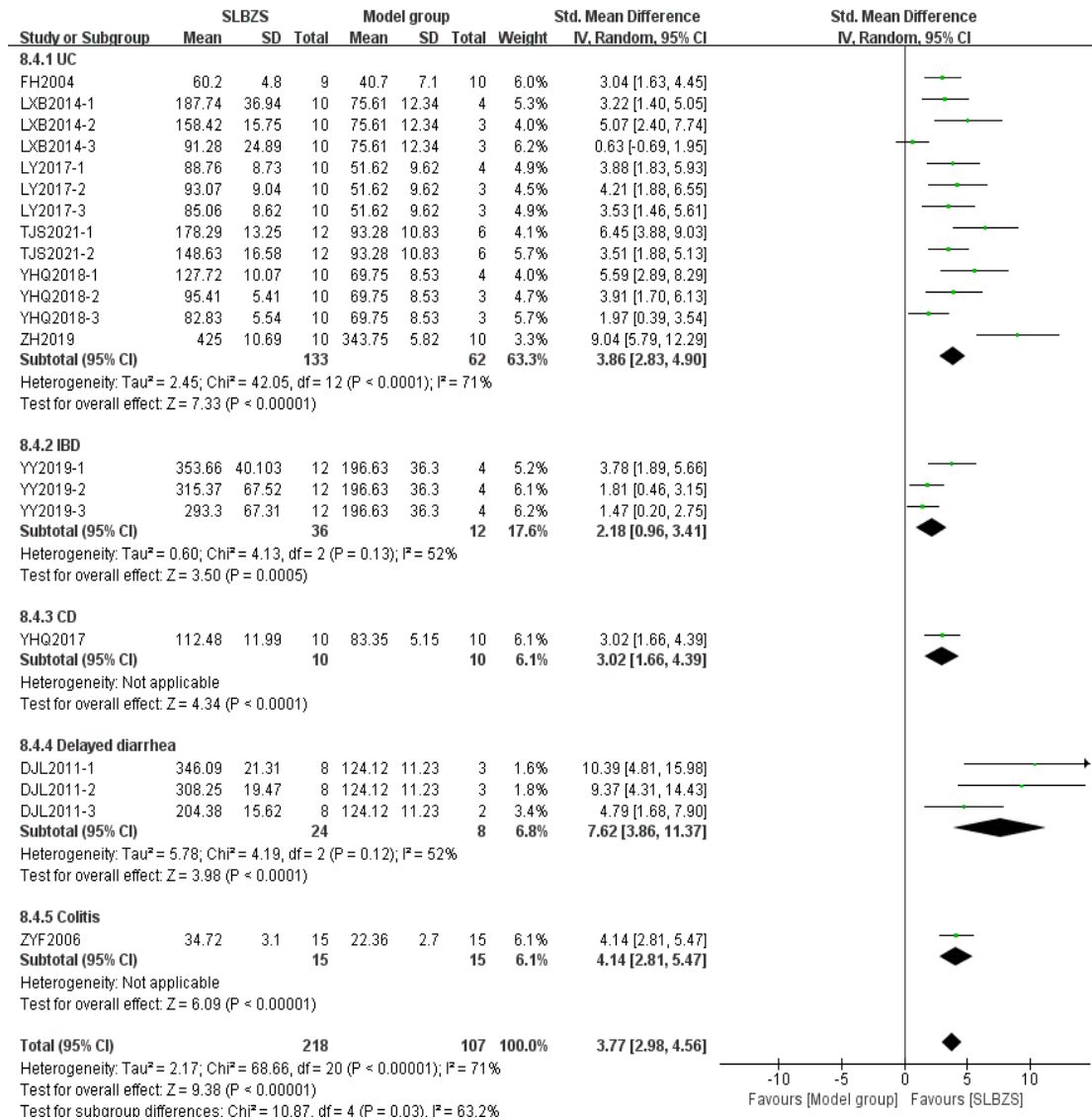
Supplementary figure S11 Subgroup analysis of IL-6 by different doses



Supplementary figure S12 The results of IL-4.

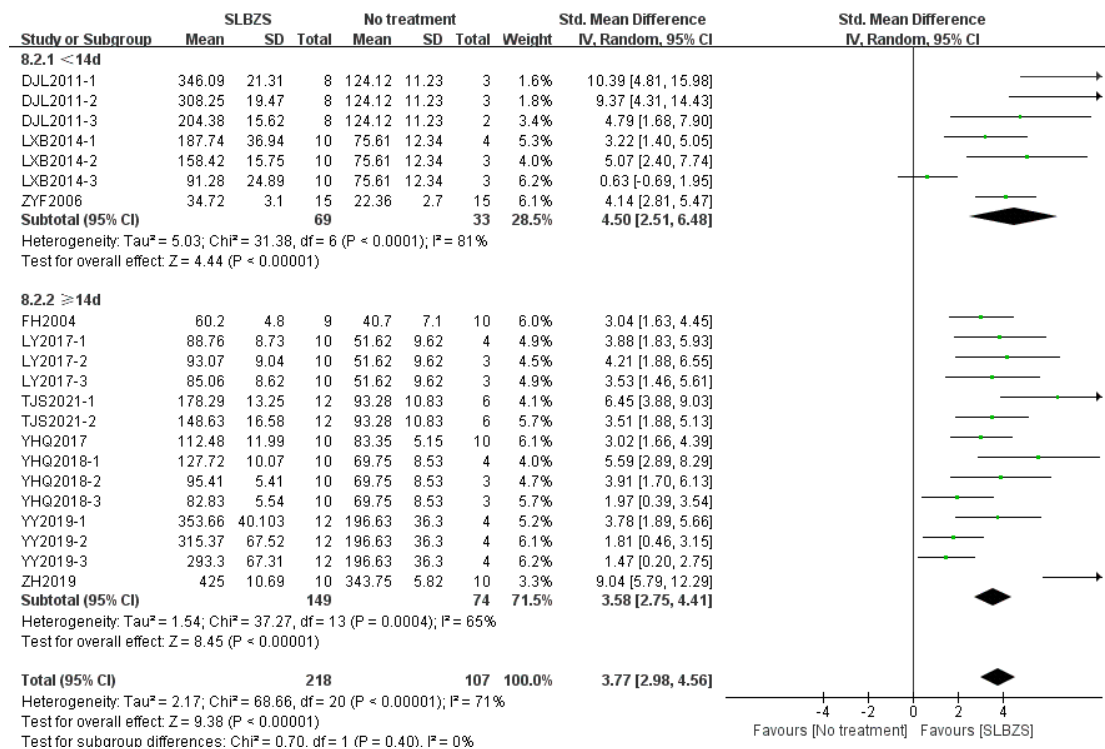


Supplementary figure S13 Subgroup analysis of IL-10 by animal species.

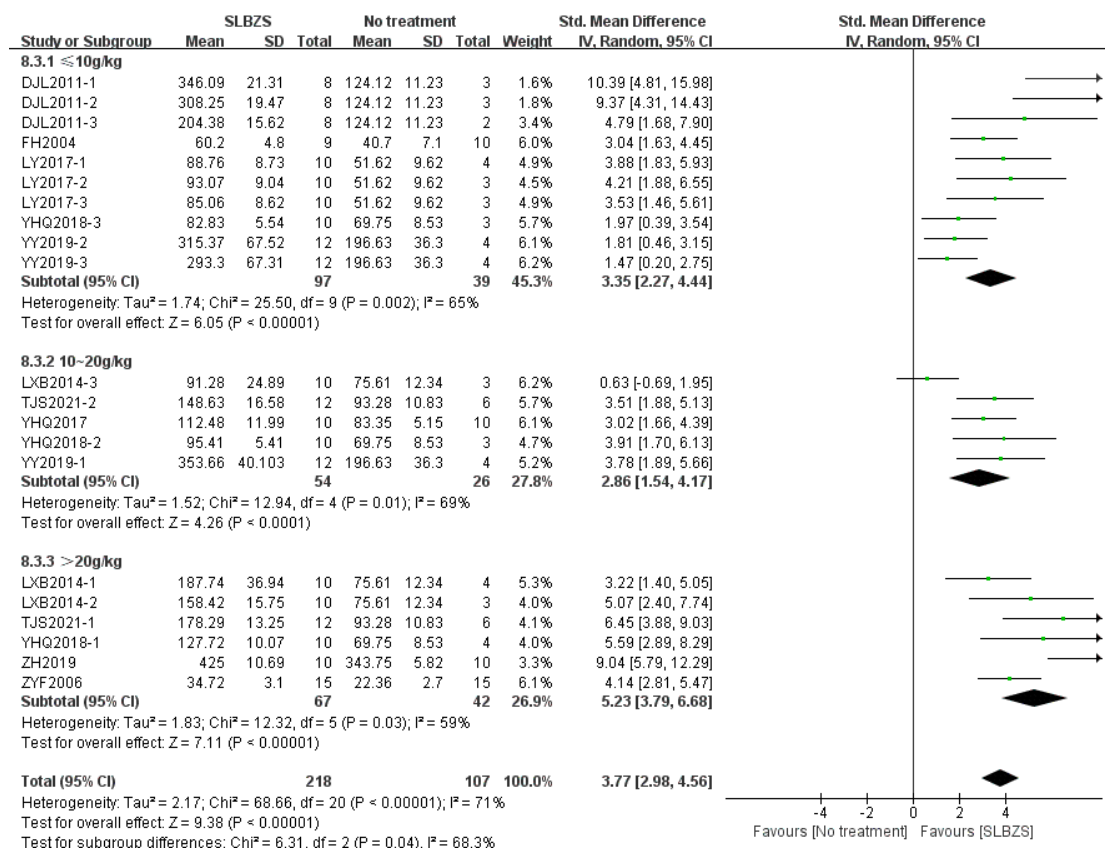


Supplementary figure S14 Subgroup analysis of IL-10 by disease model.





Supplementary figure S15 Subgroup analysis of IL-10 b y different duration



Supplementary figure S16 Subgroup analysis of IL-10 b y different doses

## Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	3.364	2.972	3.757	16.798	0.000	21
Random	4.080	3.249	4.912	9.618	0.000	

Test for heterogeneity: Q= 80.191 on 20 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 2.583

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration	estimate	Tn	# to trim	diff
1	4.080	128	1	231
2	3.921	139	2	22
3	3.773	148	3	18
4	3.533	166	5	36
5	3.249	177	6	22
6	3.149	183	7	12
7	3.070	185	7	4
8	3.070	185	7	0

## Filled

Meta-analysis (exponential form)

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	19.106	13.167	27.725	15.530	0.000	28
Random	22.591	9.383	54.391	6.954	0.000	

Test for heterogeneity: Q= 132.316 on 27 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 4.019

## Supplementary figure S17 The trim and fill Analysis results