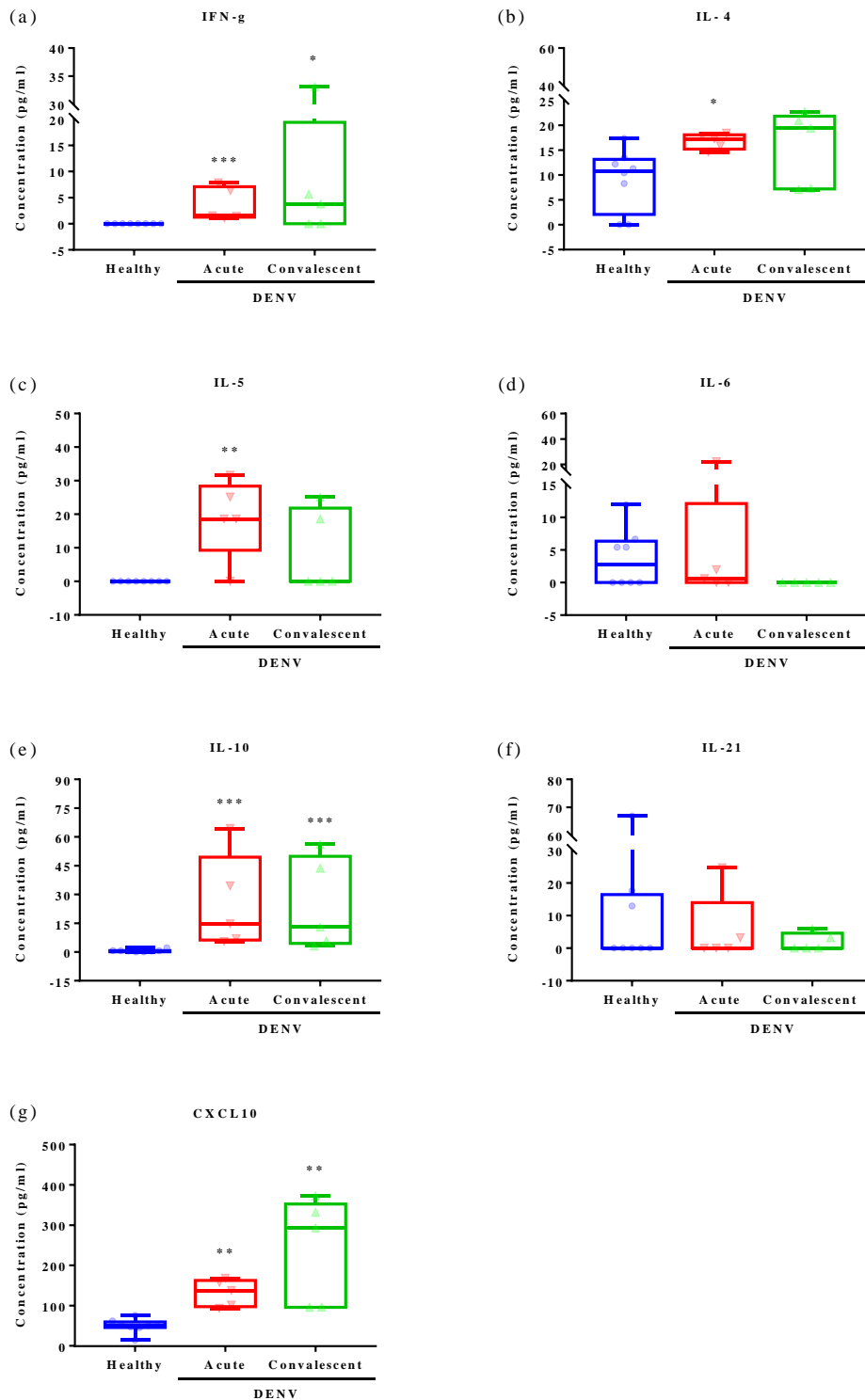
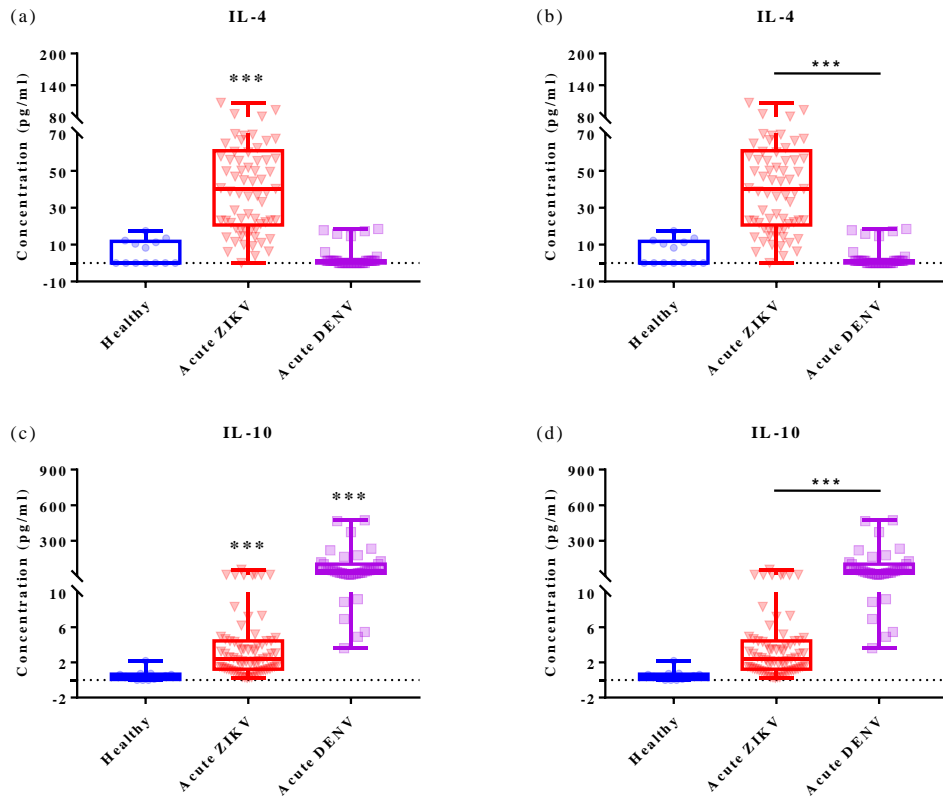


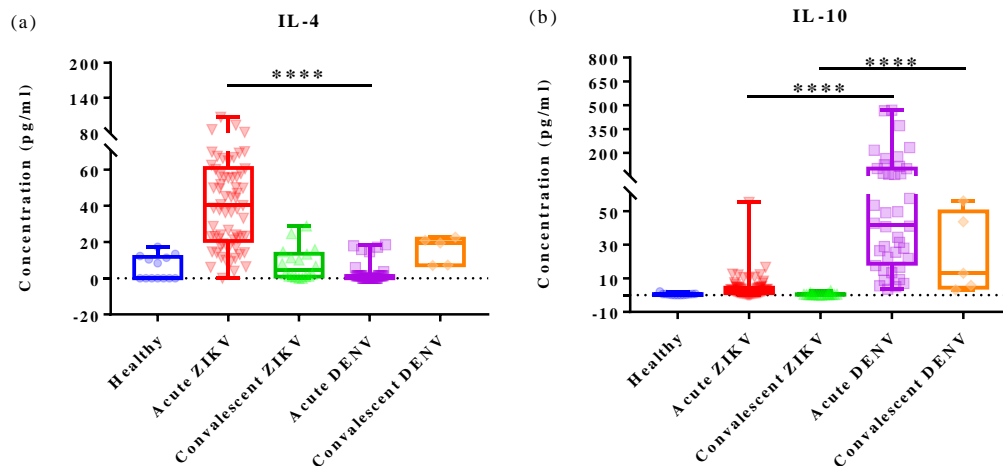
**Figure S1.** Levels of immune mediators in the acute and convalescent phases of ZIKV infection in comparison to healthy donors. All significant correlations are presented with the degree of significance indicated (\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , \*\*\*\*  $p < 0.0001$ ).



**Figure S2.** Levels of immune mediators in the acute and convalescent phase of DENV infection in comparison to healthy donors. All significant correlations are presented with the degree of significance indicated (\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , \*\*\*\*  $p < 0.0001$ ).



**Figure S3.** Levels of IL-4 and IL-10 in acute ZIKV cases ( $n = 70$ ) and acute DENV cases ( $n = 40$ ) in comparison to healthy donors ( $n = 13$ ). (Note: \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , \*\*\*\*  $p < 0.0001$ )



**Figure S4.** Differences in the levels of IL-4 and IL-10 in the acute and convalescent phases of ZIKV cases (acute,  $n = 70$ ; convalescent,  $n = 18$ ) compared with DENV cases (acute,  $n = 40$ ; convalescent,  $n = 5$ ). All significant correlations are presented with the degree of significance indicated (\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , \*\*\*\*  $p < 0.0001$ ).



**Table S1.** Changes in levels of IL-4 and IL-10 in the acute phase of infection among ZIKV-infected and DENV-infected cases compared to healthy donors.

Type of serum samples	Cytokine Concentration (pg/ml)	
	IL-4	IL-10
<b>Acute ZIKV</b> (n = 70)	41.85 ± 24.85/2.97 40.44 (0-106.30) 35.93, 47.78	4.26 ± 7.06/0.84 2.44 (0.24-55.16) 2.58, 5.95
<b>Acute DENV</b> (n = 40)	2.82 ± 5.49/0.87 1.29 (0-18.42) 1.06, 4.57	86.79 ± 116.20/18.37 42.02 (3.61-470.40) 49.63, 123.90
<b>Healthy donor</b> (n = 13)	0 ± 6.63/1.84 0 (0-17.39) 1.62, 9.63	0.48 ± 0.58/0.16 0.40 (0-2.18) 0.13, 0.83

**Note:** Data are the values (in pg per ml) of mean ± SD (standard deviation)/SEM (standard error of the mean), median (minimum–maximum), and 95% CI (confidence interval), respectively. The results were analyzed by Mann–Whitney U test.

**Table S2.** Differences in the levels of IL-4 and IL-10 in the acute phase of infection among ZIKV-infected patients, DENV-infected patients, and healthy donors.

Type of serum samples	Type of Cytokine <sup>a</sup>	
	IL-4	IL-10
<b>Acute ZIKV</b> vs <b>Healthy donor</b>	< 0.001; ***	< 0.001; ***
<b>Acute DENV</b> vs <b>Healthy donor</b>	0.735; <i>ns</i>	< 0.001; ***
<b>Acute ZIKV</b> vs <b>Acute DENV</b>	< 0.001; ***	< 0.001; ***

<sup>a</sup>All significant correlations are presented with the degree of significance indicated (\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , \*\*\*\*  $p < 0.0001$ , *ns* = not significant); the results are analyzed by Mann–Whitney U test.



**Table S3.** Changes in levels of IL-4 and IL-10 in the acute and convalescent phases of infection among ZIKV-infected and DENV-infected cases compared to healthy donors.

Type of serum samples	Cytokine Concentration (pg/ml)	
	IL-4	IL-10
<b>Acute ZIKV</b> (n = 70)	41.85 ± 24.85/2.97 40.44 (0-106.30) 35.93, 47.78	4.26 ± 7.06/0.84 2.44 (0.24-55.16) 2.58, 5.95
<b>Convalescent ZIKV</b> (n = 18)	7.90 ± 8.77/2.07 4.41 (0-28.81) 3.54, 12.26	0.54 ± 0.63/0.15 0.35 (0-2.64) 0.23, 0.85
<b>Acute DENV</b> (n = 40)	2.82 ± 5.49/0.87 1.29 (0-18.42) 1.06, 4.57	86.79 ± 116.20/18.37 42.02 (3.61-470.40) 49.63, 123.90
<b>Convalescent DENV</b> (n = 5)	15.50 ± 7.66/3.43 19.43 (7.08-22.72) 5.99, 25.02	24.35 ± 23.99/10.73 13.08 (3.13-56.09) -5.43, 54.14
<b>Healthy donor</b> (n = 13)	0 ± 6.63/1.84 0 (0-17.39) 1.62, 9.63	0.48 ± 0.58/0.16 0.40 (0-2.18) 0.13, 0.83

**Note:** Data are the values (in pg per ml) of mean ± SD (standard deviation)/SEM (standard error of the mean), median (minimum–maximum), and 95% CI (confidence interval), respectively. The results were analyzed by Mann–Whitney U test.

**Table S4.** Differences in the levels of IL-4 and IL-10 in the acute and convalescent phases of infection among ZIKV-infected patients and DENV-infected patients.

Type of serum samples	Type of Cytokine <sup>a</sup>	
	IL-4	IL-10
<b>Acute ZIKV vs Acute DENV</b>	< 0.0001; ****	< 0.0001; ****
<b>Convalescent ZIKV vs Convalescent DENV</b>	0.0909; <i>ns</i>	< 0.0001; ****

<sup>a</sup>All significant correlations are presented with the degree of significance indicated (\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , \*\*\*\*  $p < 0.0001$ , *ns* = not significant); the results were analyzed by Mann–Whitney U test.