**IL6**

**Grafico P1-IL6-24h**

In panel A is reported the unpaired mean comparison of IL6 between Asaia WSP vs AsaiaphM4 as control group at 24h: The difference

between the sample mean IL6 in AsaiaWSP ( 5722 pg/ml ) and AsaiapHM4 ( 4145 pg/ml) was 1580 pg/ml, with a

bootstraped 95% confidence interval from 755 to 2380 pg/ml; the bootstraped

Welch two-sample t-test P value was 0,0012 .

In panel B is reported the unpaired mean comparison of IL6 Asaia WSP L vs AsaiaphM4 L as control group at 24h: The difference

between the sample mean IL6 in AsaiaWSP L (3479 pg/ml ) and AsaiapHM4 (2714 pg/ml) was 765 pg/ml, with a

bootstraped 95% confidence interval from -604 to 2020 pg/ml; the bootstraped

Welch two-sample t-test P value was 0.288. "

**Grafico P1-IL6-48h**

In panel A is reported the unpaired mean comparison of IL6 between Asaia WSP vs AsaiaphM4 as control group at 48h: The difference

between the sample mean IL6 in AsaiaWSP ( 4247 pg/ml ) and AsaiapHM4 (1810 pg/ml) was 2440 pg/ml, with a

bootstraped 95% confidence interval from 1060 to 3840 pg/ml; the bootstraped

Welch two-sample t-test P value was 0.015.

In panel B is reported the unpaired mean comparison of IL6 Asaia WSP L vs AsaiaphM4 L as control group at 48h: The difference

between the sample mean IL6 in AsaiaWSP L ( 4180 pg/ml) and AsaiapHM4 L (2589 pg/ml ) was 1590 pg/ml, with a

bootstraped 95% confidence interval from -498 to 3930 pg/ml; the bootstraped

Welch two-sample t-test P value was 0.289. "

**TNF**

**Grafico P1-TNF-24h**

In panel A is reported the unpaired mean comparison of TNF between Asaia WSP vs AsaiaphM4 as control group at 24h: The difference

between the sample mean TNF in AsaiaWSP (1143 pg/ml ) and AsaiapHM4 (860 pg/ml) was 283 pg/ml, with a

bootstraped 95% confidence interval from -216 to 781 pg/ml; the bootstraped Welch two-sample t-test P value was 0.256

In panel B is reported the unpaired mean comparison of TNF Asaia WSP L vs AsaiaphM4 L as control group at 24h: The difference

between the sample mean TNF in AsaiaWSP L (1179 pg/ml ) and AsaiapHM4 L (673 pg/ml) was 504 pg/ml, with a

bootstraped 95% confidence interval from -215 to 1350 pg/ml; the bootstraped Welch two-sample t-test P value was 0.168. "

**Grafico P1-TNF-48h**

In panel A is reported the unpaired mean comparison of TNF between Asaia WSP vs AsaiaphM4 as control group at 48h: The difference

between the sample mean TNF in AsaiaWSP (161 pg/ml ) and AsaiapHM4 (152 pg/ml) was 8.95 pg/ml, with a

bootstraped 95% confidence interval from -77.20 to 74.60 pg/ml; the bootstraped Welch two-sample t-test P value was 0.887

In panel B is reported the unpaired mean comparison of TNF Asaia WSP L vs AsaiaphM4 L as control group at 48h: The difference

between the sample mean TNF in AsaiaWSP L (221 pg/ml ) and AsaiapHM4 L (176 pg/ml ) was 44.90 pg/ml, with a

bootstraped 95% confidence interval from -59.5 to 173.00 pg/ml; the bootstraped Welch two-sample t-test P value was 0.443. "

**IL1 Beta**

**Grafico P1-IL1b-24h**

In panel A is reported the unpaired mean comparison of IL1 beta between Asaia WSP vs AsaiaphM4 as control group at 24h: The difference

between the sample mean IL1beta in AsaiaWSP (359 pg/ml) and AsaiapHM4 (308 pg/ml) was 50.1 pg/ml, with a

bootstraped 95% confidence interval from -13 to 104 pg/ml; the bootstraped Welch two-sample t-test P value was 0.127.

In panel B is reported the unpaired mean comparison of IL1 beta Asaia WSP L vs AsaiaphM4 L as control group at 24h: The difference

between the sample mean IL1 beta in AsaiaWSP L 304 pg/ml ) and AsaiapHM4 (293 pg/ml) was 11.2 pg/ml, with a

bootstraped 95% confidence interval from -14.7 to 37.3 pg/ml; the bootstraped Welch two-sample t-test P value was 0.399. "

**IL12p40**

**Grafico P1-IL12p40-24h**

In panel A is reported the unpaired mean comparison of IL12p40 between Asaia WSP vs AsaiaphM4 as control group at 24h: The difference

between the sample mean IL12p40 in AsaiaWSP (9310 pg/ml) and AsaiapHM4 (6652 pg/ml) was 2660 pg/ml, with a

bootstraped 95% confidence interval from -1150 to 6650 pg/ml; the bootstraped Welch two-sample t-test P value was 0.184

In panel B is reported the unpaired mean comparison of IL12p40 Asaia WSP L vs AsaiaphM4 L as control group at 24h: The difference

between the sample mean IL12p40 in AsaiaWSP L (7977 pg/ml) and AsaiapHM4 (6430 pg/ml) was 1550 pg/ml, with a

bootstraped 95% confidence interval from -2080 to 5270 pg/ml; the bootstraped Welch two-sample t-test P value was 0.410 "

**ROS**

**Grafico P1-ROS-24h**

In panel A is reported the unpaired mean comparison of ROS between Asaia WSP vs AsaiaphM4 as control group at 24h: The difference

between the sample mean ROS in AsaiaWSP (11454 pg/ml) and AsaiapHM4 (5237 pg/ml) was 6220 pg/ml, with a

bootstraped 95% confidence interval from 3140 to 9210 pg/ml; the bootstraped Welch two-sample t-test P value was 0.0006.

In panel B is reported the unpaired mean comparison of ROS Asaia WSP L vs AsaiaphM4 L as control group at 24h: The difference

between the sample mean ROS in AsaiaWSP L (9660v pg/ml) and AsaiapHM4 (8289 pg/ml) was 1370 pg/ml, with a

bootstraped 95% confidence interval from -2020 to 5350 pg/ml; the bootstraped Welch two-sample t-test P value was 0.453

**NITRITI**

**Grafico P1-NO-24h**

In panel A is reported the unpaired mean comparison of NO between Asaia WSP vs AsaiaphM4 as control group at 24h: The difference

between the sample mean NO in AsaiaWSP (73.30 μM) and AsaiapHM4 (71.21μM ) was 2.08 μM ml, with a

bootstraped 95% confidence interval from -17.8 to 21,3 μM; the bootstraped Welch two-sample t-test P value was 0.838

In panel B is reported the unpaired mean comparison of NO between Asaia WSP L vs AsaiaphM4 L as control group at 24h: The difference

between the sample mean NO in AsaiaWSP L (80.98 μM) and AsaiapHM4 L (82,14 μM ) was –1.16 μM, with a

bootstraped 95% confidence interval from -21.9 to 18 pg/ml; the bootstraped Welch two-sample t-test P value was 0.598 "

**Grafico P1-NO-48h**

In panel A is reported the unpaired mean comparison of NO between Asaia WSP vs AsaiaphM4 as control group at 48h: The difference

between the sample mean NO in AsaiaWSP (132.71 μM) and AsaiapHM4 (80.46 μM) was 52.2 μM , with a

bootstraped 95% confidence interval from 31.5 to 70.3 μM; the bootstraped Welch two-sample t-test P value was 0.0002.

In panel B is reported the unpaired mean comparison of ROS Asaia WSP L vs AsaiaphM4 L as control group at 48h: The difference

between the sample mean NO in AsaiaWSP L (131.70 μM) and AsaiapHM4 L (112.09 μM) was 19.6 μM, with a

bootstraped 95% confidence interval from -8.71 to 44.4 μM; the bootstraped Welch two-sample t-test P value was 0.318. "

**N.parassiti per macrofagi**

"In this figure is reported the unpaired mean comparison of number of Leishmania/macrophages between different Treatment Group vs Leishmania as control group at 24h:

1) The difference between the sample mean of parasites in AsaiapHM4 (1.12) and Med (1.44) was -0.32, with a

bootstraped 95% confidence interval from -0.52 to -0.13; the bootstraped Welch two-sample t-test P value was < 2.2e-16

2) The difference between the sample mean of parasites in AsaiaWSP (0.63) and Med (1.44) was -0.81 , with a

bootstraped 95% confidence interval from -0.97 to -0.64; the bootstraped Welch two-sample t-test P value was 0.002.

3) The difference between the sample mean of parasites in Leishmania (0.33) and Med (1.44) was -1.11, with a

bootstraped 95% confidence interval from -1.27 to -0.96; the bootstraped Welch two-sample t-test P value was < 2.2e-16. "