

Additional Figure 3: Results on the analysis of IP-10 level as a contributor for the sleep-wake behaviour: A) Results for Wake during Light B) Wake during Dark, C) NREM during the Light Period, D) NREM during Dark, E) REM during Light and F) REM during Dark
None of the analysis revealed any influence of the cytokine level (IP) or the cytokine level at a specific day (IP:Day)

A

```
> fm1 <- aov(wake_Light ~ IP * Day, data = wake)
> summary(fm1)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
IP	1	183.9	183.86	1.051	0.332
Day	1	195.6	195.62	1.118	0.318
IP:Day	1	57.8	57.81	0.331	0.579
Residuals	9	1574.1	174.90		

B

```
> fm2 <- aov(wake_Dark ~ IP * Day, data = wake)
> summary(fm2)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
IP	1	227.3	227.25	1.173	0.307
Day	1	9.5	9.50	0.049	0.830
IP:Day	1	60.5	60.53	0.312	0.590
Residuals	9	1744.1	193.79		

C

```
> fm3 <- aov(NREM_Light ~ IP * Day, data = NREM)
> summary(fm3)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
IP	1	89.6	89.58	0.449	0.520
Day	1	10.8	10.82	0.054	0.821
IP:Day	1	0.3	0.35	0.002	0.968
Residuals	9	1795.6	199.51		

D

```
> fm4 <- aov(NREM_Dark ~ IP * Day, data = NREM)
> summary(fm4)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
IP	1	185.2	185.22	1.148	0.312
Day	1	1.2	1.19	0.007	0.933
IP:Day	1	12.0	12.04	0.075	0.791
Residuals	9	1451.4	161.27		

E

```
> fm5 <- aov(REM_Light ~ IP * Day, data = REM)
> summary(fm5)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
IP	1	16.8	16.77	0.130	0.727
Day	1	114.4	114.43	0.886	0.371
IP:Day	1	67.1	67.10	0.520	0.489
Residuals	9	1162.4	129.15		

F

```
> fm6 <- aov(REM_Dark ~ IP * Day, data = REM)
> summary(fm6)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
IP	1	2.15	2.147	0.132	0.725
Day	1	3.96	3.959	0.243	0.634
IP:Day	1	18.58	18.584	1.142	0.313
Residuals	9	146.51	16.279		