**Additional file 5** **Extent and kinetics of modulated mRNA concentrations after stimulating pbMEC in serum free medium with *E. coli* strain 1303, *S. aureus* strain 1027 or *S. uberis* strain 233.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| **Gene** | **Time** |  | **Pathogen** |  |
|  |  |  |  |  |
|  |  | ***E. coli***  **strain 1303** | ***S. aureus* strain 1027** | ***S. uberis***  **strain 233** |
|  |  |  |  |  |
| ***TNF*** | **1 h** | 14 ± 3.4 | 4.2 ± 0.6 | 0.9 ± 0.0 |
|  | **3 h** | **152** ± 15 | **57** ± 6.6 | 1.8 ± 0.2 |
|  | **24 h** | **84** ± 2.2 | **11** ± 0.7 | 2.3 ± 0.4 |
|  |  |  |  |  |
| ***IL1A*** | **1 h** | 4.6 ± 1.1 | 2.4 ± 0.3 | 2.1 ± 0.2 |
|  | **3 h** | **154** ± 17 | **43** ± 3.9 | 2.6 ± 0.1 |
|  | **24 h** | **25** ± 0.3 | 3.3 ± 0.1 | 1.6 ± 0.0 |
|  |  |  |  |  |
| ***IL1B*** | **1 h** | 2.3 ± 1.1 | 1.7 ± 0.8 | 1.7 ± 0.6 |
|  | **3 h** | **335** ± 74 | **83** ± 18 | 1.1 ± 0.2 |
|  | **24 h** | **290** ± 45 | 7.3 ± 0.2 | 1.4 ± 0.2 |
|  |  |  |  |  |
| ***IL6*** | **1 h** | 1.5 ± 0.3 | 0.8 ± 0.0 | 0.9 ± 0.0 |
|  | **3 h** | **98** ± 19 | 18 ± 2.3 | 1.3 ± 0.1 |
|  | **24 h** | **25** ± 0.5 | 3.3 ± 0.0 | 1.6 ± 0.1 |
|  |  |  |  |  |
| ***CXCL8*** | **1 h** | 5.1 ± 0.9 | 1.1 ± 0.3 | 1.2 ± 0.2 |
|  | **3 h** | **238** ± 25 | **69** ± 3.8 | 2.7 ± 0.1 |
|  | **24 h** | **46** ± 7.5 | 5.3 ± 0.5 | 1.6 ± 0.2 |
|  |  |  |  |  |
| ***CCL20*** | **1 h** | 7.8 ± 1.8 | 1.2 ± 0.1 | 0.8 ± 0.1 |
|  | **3 h** | **1675** ± 33 | **393** ± 2.6 | 2.2 ± 0.1 |
|  | **24 h** | **101** ± 10 | 8.0 ± 1.2 | 1.6 ± 0.2 |
|  |  |  |  |  |
| ***CCL5*** | **1 h** | 1.1 ± 0.1 | 1.0 ± 0.1 | 0.9 ± 0.0 |
|  | **3 h** | 7.1 ± 0.8 | 1.3 ± 0.0 | 0.9 ± 0.0 |
|  | **24 h** | **250** ± 4.8 | **28** ± 1.4 | 1.7 ± 0.1 |
|  |  |  |  |  |
| ***NOS2A*** | **1 h** | 1.2 ± 0.2 | 1.1 ± 0.1 | 0.8 ± 0.1 |
|  | **3 h** | **461** ± 1.3 | **115** ± 1.5 | 1.0 ± 0.0 |
|  | **24 h** | **116** ± 8.5 | 14 ± 2.6 | 1.7 ± 0.3 |
|  |  |  |  |  |
| ***LAP*** | **1 h** | 1.4 ± 0.1 | 0.7 ± 0.2 | 1.0 ± 0.1 |
|  | **3 h** | **2.9** ± 0.9 | 1.6 ± 0.3 | 0.9 ± 0.2 |
|  | **24 h** | **25** ± 1.0 | **3.5** ± 0.1 | 1.0 ± 0.1 |
|  |  |  |  |  |
| ***CYP1A1*** | **1 h** | 81 ± 14 | 88 ± 11 | **151** ± 15 |
|  | **3 h** | **1062** ± 159 | **1074** ± 140 | **1017** ± 120 |
|  | **24 h** | 2.8 ± 0.2 | 3.6 ± 0.8 | 2.8 ± 0.4 |
|  |  |  |  |  |

Values are means from two biological replica experiments (± SEM) of fold changes relative to unstimulated control; bold numbers represent significant regulation (Anova, Bonferroni post-tests).