**Supplemental** table 4**: Descriptive statistics of figure 4 and 6. A)** Gene and **B)** protein expression of adenosine A2B receptor were evaluated in intestine, liver, and lung tissue after zymosan stimulation and after zymosan administration and sevoflurane treatment. **C)** Hypoxia-inducible factor 1α gene and **D)** protein expression were detected in intestine, liver, and lung tissue of wild-type animals at indicated conditions. **E)** Effects of sevoflurane on formyl-methionyl-leucyl-phenylalanine-induced neutrophil transmigration were evaluated at indicated conditions. **F)** Neutrophil migratory behavior under adenosine A2B receptor upregulation and **G)** depletion were determined by transmigration through human epithelial cells. **H)** Effects of sevoflurane on human neutrophils during transmigration through small intestinal submucosal scaffolds were evaluated at indicated conditions. **I)** Concentration of cAMP were detected by ELISA. **J)** The effects of hypoxia-inducible factor 1α depletion by siRNA and of the **K)** control siRNA on neutrophil migration were assessed at indicated conditions. All statistic data presented as the mean ± SD or as the median and 25%/75% percentile. Statistical analyses were performed by one-way ANOVA + Bonferroni test and two-group analyses by unpaired *t*-tests or Mann-Whitney tests.

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| **Table 4A adenosine A2B receptor gene expression** | **Normalized gene expression** | ***P* values; n counts** |
| Intestine: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.2 ± 0.3vs. 1.0 ± 0.8 | P<0.001n=30/30 |
| Liver: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | median [25%,75%]: 0.0 [0.0, 0.5] vs. 1.6 [1.5, 1.9] | P<0.001n=30/23 |
| Lung: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.2 ± 0.3vs. 0.8 ± 0.7 | P=0.001n=30/24 |

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| **Table 4B adenosine A2B receptor protein expression** | **Protein expression/control** | ***P* values; n counts** |
| Intestine: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.7 ± 0.1vs. 1.1 ± 0.0 | P=0.016n=2/2 |
| Liver: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.4 ± 0.1vs. 0.8 ± 0.0 | P=0.011n=2/2 |
| Lung: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.7 ± 0.0vs. 1.0 ± 0.1 | P=0.038n=2/2 |

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| **Table 4C hypoxia-inducible factor 1α gene expression** | **Normalized gene expression** | ***P* values; n counts** |
| Intestine: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | median [25%,75%]: 0.6 [0.5, 0.6] vs. 1.8 [1.0, 3.5] | P=0.001n=10/7 |
| Liver: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.2 ± 0.1vs. 1.6 ± 1.4 | P=0.005n=10/7 |
| Lung: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.7 ± 0.4vs. 2.1 ± 1.0 | P<0.001n=11/9 |

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| **Table 4D hypoxia-inducible factor 1α protein expression** | **Protein expression/control** | ***P* values; n counts** |
| Intestine: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.5 ± 0.1vs. 0.9 ± 0.1 | P=0.019n=3/2 |
| Liver: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.5 ± 0.3vs. 2.8 ± 1.3 | P=0.014n=4/3 |
| Lung: wild-type with zymosanvs. wild-type with zymosan and sevoflurane | mean ± SD: 0.2 ± 0.1vs. 1.0 ± 0.6 | P=0.026n=4/4 |

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| **Table 4E Effects of sevoflurane on neutrophil migration** | **Neutrophil migration** | ***P* values; n counts** |
| Neutrophils without formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine | mean ± SD: 0.0 ± 0.0vs. 0.9 ± 0.1 | P<0.001n=4/6 |
| Neutrophils with formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine and sevoflurane | mean ± SD: 0.9 ± 0.1vs. 0.4 ± 0.1 | P<0.001n=6/4 |
| Neutrophils with formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine and sevoflurane and PSB115 | mean ± SD: 0.9 ± 0.1vs. 0.8 ± 0.2 | P=nsn=6/4 |

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| **Table 4F Effects of Adora2b plasmid on neutrophil migration** | **Neutrophil migration** | ***P* values; n counts** |
| Neutrophil without formyl-methionyl-leucyl-phenylalaninevs. neutrophil with formyl-methionyl-leucyl-phenylalanine | mean ± SD: 0.0 ± 0.0vs. 1.3 ± 0.2 | P<0.001n=4/4 |
| Neutrophil with formyl-methionyl-leucyl-phenylalanine vs. neutrophils with formyl-methionyl-leucyl-phenylalanine and Adora2b plasmid | mean ± SD: 1.3 ± 0.2vs. 0.5 ± 0.3 | P<0.001n=4/6 |

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| **Table 4G Effects of Adora2b siRNA on neutrophil migration** | **Neutrophil migration** | ***P* values; n counts** |
| Neutrophils without formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine | Median [25%, 75%]: 0.0 ± 0.0vs. 1.1 ± 0.2 | P=0.046n=6/10 |
| Neutrophils with formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine and adenosine A2B receptor siRNA | Median [25%, 75%]: 1.1 ± 0.2vs. 1.8 ± 0.2 | P=0.040n=10/6 |

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| **Table 4H Effects of sevoflurane on neutrophil migration through the matrix** | **Neutrophil migration** | ***P* values; n counts** |
| Neutrophils without formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine | mean ± SD: 0.2 ± 0.1vs. 1.5 ± 0.5 | P=0.015n=2/4 |
| Neutrophils with formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine and adenosine A2B receptor plasmid | mean ± SD: 1.5 ± 0.5vs. 0.2 ± 0.4 | P=0.009n=4/4 |

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| **Table 4I Cyclic adenosine monophosphate concentration** | **[pmol/ml]** | ***P* value; n counts** |
| Epithelial cells without formyl-methionyl-leucyl-phenylalaninevs. epithelial cells with formyl-methionyl-leucyl-phenylalanine | mean ± SD: 1.1 ± 0.3vs. 1.7 ± 0.5 | P=0.018n=6/6 |

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| **Table 4J Effects of hypoxia-inducible factor 1α siRNA on neutrophil migration** | **Neutrophil migration** | ***P* values; n counts** |
| Neutrophils without formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine | Median [25%, 75%]: 0.2 [0.0, 0.3]vs. 1.5 [1.0, 2.0] | P=0.045n=4/6 |
| Neutrophils with formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine and hypoxia-inducible factor 1α siRNA | Median [25%, 75%]: 1.5 [1.0, 2.0]vs. 1.1 [1.0, 1.3] | P=0.880n=6/4 |

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| **Table 4K Effects of hypoxia-inducible factor 1α control siRNA on neutrophil migration** | **Neutrophil migration** | ***P* values; n counts** |
| Neutrophils without formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine | Median [25%, 75%]: 0.0 [0.00, 0.1]vs. 1.3 [1.2, 1.4] | P=0.001n=4/6 |
| Neutrophils with formyl-methionyl-leucyl-phenylalaninevs. neutrophils with formyl-methionyl-leucyl-phenylalanine and hypoxia-inducible factor 1αsiRNA control | Median [25%, 75%]: 1.3 [1.2, 1.4]vs. 0.5 [0.4, 0.8] | P=0.041n=6/7 |