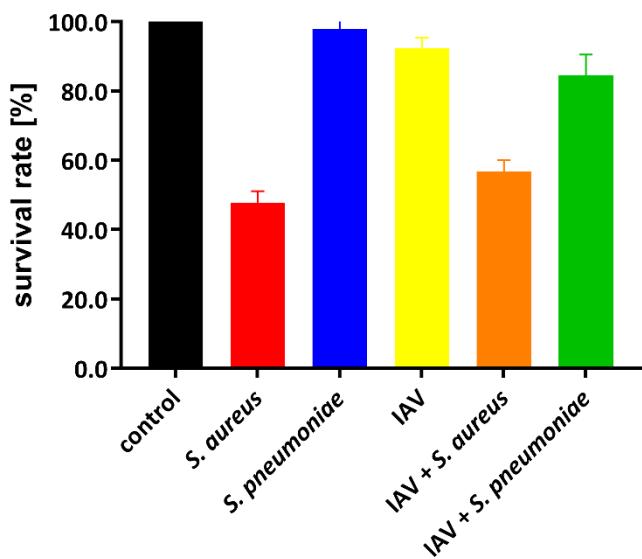
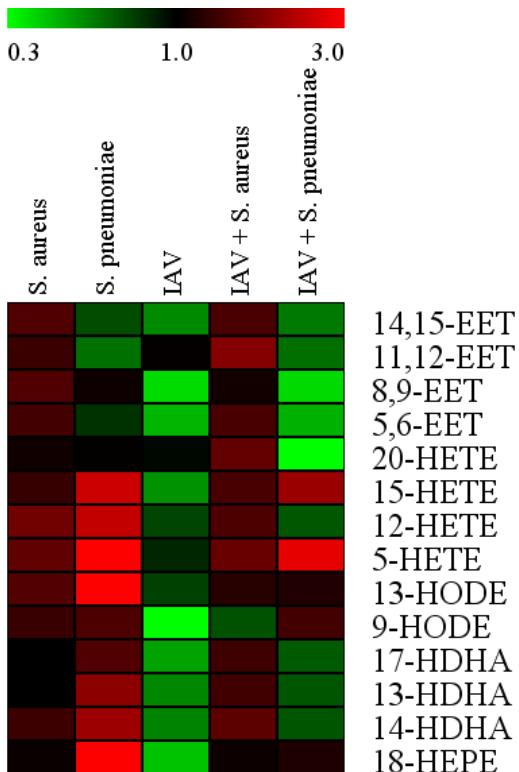


*Supplemental material*


**Figure S1.** Survival rate of 16HBE cells under indicated infection conditions. 16HBE cells were infected ( $n=4$ ) as described in the method section. 6 h post bacterial infections the vital cells were detached and counted. Cell counts were normalized to the uninfected controls ( $n=15$ ) and are displayed as percentage of the uninfected control.



**Figure S2.** Heatmap displaying fold changes [infection ( $n=4$ )/control ( $n=15$ )] of measured lipid mediators. Decreased levels are shown in green and increased amounts in red.

**Table S1.** Optimized MRM parameters for analyzed lipid mediators with qualifier<sup>1</sup> and quantifier<sup>2</sup> ion. Grey lipid mediators were not detected.

compound	precursor ion	product ion	fragmentor voltage [V]	collision energy [V]	cell voltage [V]	accelerator voltage [V]	retention time [min]
14,15-EET <sup>1</sup>	319.2	219.1	100	8	4		18.25
14,15-EET <sup>2</sup>	319.2	175.1	100	10	1		18.25
11,12-EET <sup>1</sup>	319.2	179.0	100	8	1		18.50
11,12-EET <sup>2</sup>	319.2	167.2	100	12	2		18.50
8,9-EET <sup>1</sup>	319.2	154.9	100	8	1		18.40
8,9-EET <sup>2</sup>	319.2	151.0	100	10	1		18.40
5,6-EET <sup>1</sup>	319.2	191.0	100	2	1		18.60
5,6-EET <sup>2</sup>	319.2	99.0	100	16	1		18.60
5,15-DiHETE <sup>1</sup>	335.3	255.3	100	12	3		15.50
5,15-DiHETE <sup>2</sup>	335.3	173.2	100	12	6		15.50
20-HETE <sup>1</sup>	319.2	288.9	140	12	2		16.90
20-HETE <sup>2</sup>	319.2	237.0	140	10	3		16.90
15-HETE <sup>1</sup>	319.2	219.2	120	4	4		17.45
15-HETE <sup>2</sup>	319.2	120.9	120	12	3		17.45
12-HETE <sup>1</sup>	319.2	163.0	120	12	1		17.70
12-HETE <sup>2</sup>	319.2	135.2	120	12	3		17.70
5-HETE <sup>1</sup>	319.2	203.3	100	12	5		17.80
13-HOTrE <sup>1</sup>	293.2	224.0	100	10	4		16.80
13-HOTrE <sup>2</sup>	293.2	210.8	100	6	4		16.80
13-HODE <sup>1</sup>	295.2	195.1	100	14	1		17.25
13-HODE <sup>2</sup>	295.2	277.2	100	10	2		17.25
9-HODE <sup>1</sup>	295.2	171.0	100	10	1		17.30
9-HODE <sup>2</sup>	295.2	123.1	100	14	3		17.30
17-HDHA <sup>1</sup>	343.2	245.1	100	8	3		17.50
17-HDHA <sup>2</sup>	343.2	201.1	100	10	4		17.50
14-HDHA <sup>1</sup>	343.2	234.1	100	10	4		17.60
14-HDHA <sup>2</sup>	343.2	161.2	100	8	1		17.60
13-HDHA <sup>1</sup>	343.2	193.1	80	10	3		17.65
13-HDHA <sup>2</sup>	343.2	221.0	80	12	5		17.65
18-HEPE <sup>1</sup>	317.2	215.0	80	10	4		16.75
18-HEPE <sup>2</sup>	317.2	259.0	80	6	3		16.75
15-HEPE <sup>1</sup>	317.2	255.3	100	4	2		17.00
15-HEPE <sup>2</sup>	317.2	219.2	100	4	4		17.00
Protectin DX <sup>1</sup>	359.2	206.1	100	12	4		15.70
Protectin DX <sup>2</sup>	359.2	153.1	100	12	1		15.70
Resolvin D5 <sup>1</sup>	359.2	199.2	80	10	5		15.65
Resolvin D5 <sup>2</sup>	359.2	141.0	80	10	2		15.65
Leukotriene B4	335.2	194.9	120	8	6		15.70
Leukotriene B4	335.2	58.9	120	6	3		15.70
Leukotriene E4	438.2	351.1	100	14	4		14.70
Leukotriene E4	438.2	333.0	100	12	5		14.70
12-HETE-d8	327.2	214.0	100	12	4		17.70
13-HODE-d4	299.3	198.2	100	14	6		17.25

**Table S2.** Calculated p-values from Mann Whitey test.

lipid mediator	group		reference	p value	adjusted p value
14,15-EET	<i>S. aureus</i>	vs.	control	0.0273	>0.9999
14,15-EET	<i>S. pneumoniae</i>	vs.	control	0.4107	>0.9999
14,15-EET	IAV	vs.	control	0.0366	>0.9999
14,15-EET	IAV + <i>S. aureus</i>	vs.	control	0.0062	0.279
14,15-EET	IAV + <i>S. pneumoniae</i>	vs.	control	0.1522	>0.9999
11,12-EET	<i>S. aureus</i>	vs.	control	0.0485	>0.9999
11,12-EET	<i>S. pneumoniae</i>	vs.	control	0.5304	>0.9999
11,12-EET	IAV	vs.	control	0.4107	>0.9999
11,12-EET	IAV + <i>S. aureus</i>	vs.	control	0.0093	0.4185
11,12-EET	IAV + <i>S. pneumoniae</i>	vs.	control	0.4107	>0.9999
8,9-EET	<i>S. aureus</i>	vs.	control	0.0093	0.4185
8,9-EET	<i>S. pneumoniae</i>	vs.	control	0.5304	>0.9999
8,9-EET	IAV	vs.	control	0.001	0.045
8,9-EET	IAV + <i>S. aureus</i>	vs.	control	0.5304	>0.9999
8,9-EET	IAV + <i>S. pneumoniae</i>	vs.	control	0.0062	0.279
5,6-EET	<i>S. aureus</i>	vs.	control	0.08	>0.9999
5,6-EET	<i>S. pneumoniae</i>	vs.	control	0.7363	>0.9999
5,6-EET	IAV	vs.	control	0.0196	0.882
5,6-EET	IAV + <i>S. aureus</i>	vs.	control	0.0624	>0.9999
5,6-EET	IAV + <i>S. pneumoniae</i>	vs.	control	0.0366	>0.9999
20-HETE	<i>S. aureus</i>	vs.	control	0.2208	>0.9999
20-HETE	<i>S. pneumoniae</i>	vs.	control	0.469	>0.9999
20-HETE	IAV	vs.	control	0.9613	>0.9999
20-HETE	IAV + <i>S. aureus</i>	vs.	control	0.08	>0.9999
20-HETE	IAV + <i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
15-HETE	<i>S. aureus</i>	vs.	control	0.0366	>0.9999
15-HETE	<i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
15-HETE	IAV	vs.	control	0.0196	0.882
15-HETE	IAV + <i>S. aureus</i>	vs.	control	0.0139	0.6255
15-HETE	IAV + <i>S. pneumoniae</i>	vs.	control	0.0021	0.0945
12-HETE	<i>S. aureus</i>	vs.	control	0.0005	0.0225
12-HETE	<i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
12-HETE	IAV	vs.	control	0.2208	>0.9999
12-HETE	IAV + <i>S. aureus</i>	vs.	control	0.0093	0.4185
12-HETE	IAV + <i>S. pneumoniae</i>	vs.	control	0.1847	>0.9999
5-HETE	<i>S. aureus</i>	vs.	control	0.0005	0.0225
5-HETE	<i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
5-HETE	IAV	vs.	control	0.4107	>0.9999
5-HETE	IAV + <i>S. aureus</i>	vs.	control	0.0005	0.0225
5-HETE	IAV + <i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
13-HODE	<i>S. aureus</i>	vs.	control	0.08	>0.9999
13-HODE	<i>S. pneumoniae</i>	vs.	control	0.0005	0.0225

13-HODE	IAV	vs.	control	0.5304	>0.9999
13-HODE	IAV + <i>S. aureus</i>	vs.	control	0.307	>0.9999
13-HODE	IAV + <i>S. pneumoniae</i>	vs.	control	0.2208	>0.9999
9-HODE	<i>S. aureus</i>	vs.	control	0.2208	>0.9999
9-HODE	<i>S. pneumoniae</i>	vs.	control	0.0093	0.4185
9-HODE	IAV	vs.	control	0.001	0.045
9-HODE	IAV + <i>S. aureus</i>	vs.	control	0.3571	>0.9999
9-HODE	IAV + <i>S. pneumoniae</i>	vs.	control	0.307	>0.9999
17-HDHA	<i>S. aureus</i>	vs.	control	0.3571	>0.9999
17-HDHA	<i>S. pneumoniae</i>	vs.	control	0.0062	0.279
17-HDHA	IAV	vs.	control	0.0036	0.162
17-HDHA	IAV + <i>S. aureus</i>	vs.	control	0.0093	0.4185
17-HDHA	IAV + <i>S. pneumoniae</i>	vs.	control	0.0273	>0.9999
13-HDHA	<i>S. aureus</i>	vs.	control	>0.9999	>0.9999
13-HDHA	<i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
13-HDHA	IAV	vs.	control	0.0273	>0.9999
13-HDHA	IAV + <i>S. aureus</i>	vs.	control	0.0366	>0.9999
13-HDHA	IAV + <i>S. pneumoniae</i>	vs.	control	0.1522	>0.9999
14-HDHA	<i>S. aureus</i>	vs.	control	0.156	>0.9999
14-HDHA	<i>S. pneumoniae</i>	vs.	control	0.0007	0.0315
14-HDHA	IAV	vs.	control	0.0464	>0.9999
14-HDHA	IAV + <i>S. aureus</i>	vs.	control	0.0118	0.531
14-HDHA	IAV + <i>S. pneumoniae</i>	vs.	control	0.1268	>0.9999
18-HEPE	<i>S. aureus</i>	vs.	control	0.9613	>0.9999
18-HEPE	<i>S. pneumoniae</i>	vs.	control	0.0005	0.0225
18-HEPE	IAV	vs.	control	0.0036	0.162
18-HEPE	IAV + <i>S. aureus</i>	vs.	control	0.5965	>0.9999
18-HEPE	IAV + <i>S. pneumoniae</i>	vs.	control	0.3571	>0.9999

**Table S3.** Spearman's rang correlation

	14,15-EET	11,12-EET	8,9-EET	5,6-EET	20-HETE	15-HETE	12-HETE	5-HETE	13-HODE	9-HODE	17-HDHA	13-HDHA	14-HDHA	18-HEPE
14.15-EET		0.831	0.803	0.912	0.421	0.045	0.562	0.181	0.376	0.082	0.310	0.411	0.500	0.159
11.12-EET	0.831		0.553	0.794	0.490	-0.111	0.444	0.050	0.268	-0.288	0.075	0.248	0.317	-0.131
8.9-EET	0.803	0.553		0.894	0.485	0.133	0.714	0.223	0.395	0.222	0.496	0.627	0.717	0.418
5,6-EET	0.912	0.794	0.894		0.574	0.100	0.675	0.180	0.381	0.054	0.418	0.569	0.631	0.247
20-HETE	0.421	0.490	0.485	0.574		0.115	0.645	0.145	0.291	-0.203	0.530	0.642	0.638	0.199
15-HETE	0.045	-0.111	0.133	0.100	0.115		0.441	0.863	0.436	0.638	0.559	0.468	0.520	0.630
12-HETE	0.562	0.444	0.714	0.675	0.645	0.441		0.599	0.684	0.210	0.575	0.808	0.917	0.584
5-HETE	0.181	0.050	0.223	0.180	0.145	0.863	0.599		0.678	0.535	0.459	0.534	0.608	0.676
13-HODE	0.376	0.268	0.395	0.381	0.291	0.436	0.684	0.678		0.285	0.235	0.563	0.550	0.445
9-HODE	0.082	-0.288	0.222	0.054	-0.203	0.638	0.210	0.535	0.285		0.414	0.241	0.308	0.566
17-HDHA	0.310	0.075	0.496	0.418	0.530	0.559	0.575	0.459	0.235	0.414		0.830	0.795	0.715
13-HDHA	0.411	0.248	0.627	0.569	0.642	0.468	0.808	0.534	0.563	0.241	0.830		0.905	0.799
14-HDHA	0.500	0.317	0.717	0.631	0.638	0.520	0.917	0.608	0.550	0.308	0.795	0.905		0.727
18-HEPE	0.159	-0.131	0.418	0.247	0.199	0.630	0.584	0.676	0.445	0.566	0.715	0.799	0.727	