

**Table 1. Statistical comparison between mRNA relative expressions in swIAV H1N2 (I) single infections and co-inoculations of NPTr cells with PRRSV-1 (P). The mean values and the standard deviations of the relative expression are shown for every condition. *P* values are presented in the last column. Comparisons were made using one-way ANOVA test and Tukey's post-test.**

	Messenger RNA	mRNA relative expression $\pm$ SD				I24 vs. I24_P24
		Control	P24	I24	I24_P24	
Pattern recognition receptors	<b>RIG-I</b>	1.94 $\pm$ 0.1	2.04 $\pm$ 0.3	14.83 $\pm$ 2.5	2.48 $\pm$ 0.9	<0.0001**
	<b>MDA5</b>	2.09 $\pm$ 0.3	1.71 $\pm$ 0.2	4.50 $\pm$ 0.7	1.97 $\pm$ 0.7	0.0009**
	TLR2	3.72 $\pm$ 1.6	4.49 $\pm$ 2.4	6.99 $\pm$ 5.8	3.15 $\pm$ 3.1	ns
	TLR3	2.78 $\pm$ 0.4	2.23 $\pm$ 0.3	1.92 $\pm$ 0.3	1.62 $\pm$ 0.4	ns
	TLR4	2.45 $\pm$ 2.0	4.26 $\pm$ 4.9	3.15 $\pm$ 4.8	3.51 $\pm$ 3.8	ns
	TLR6	6.80 $\pm$ 2.0	6.02 $\pm$ 1.4	3.42 $\pm$ 0.6	3.22 $\pm$ 1.4	ns
	TLR7	2.65 $\pm$ 0.9	2.01 $\pm$ 0.6	2.01 $\pm$ 0.6	1.92 $\pm$ 0.8	ns
	TLR8	4.90 $\pm$ 5.2	9.41 $\pm$ 12.6	15.46 $\pm$ 22.1	27.56 $\pm$ 40.2	ns
	TLR9	9.83 $\pm$ 15.9	23.21 $\pm$ 16.8	19.31 $\pm$ 9.5	20.49 $\pm$ 20.7	ns
	TLR10	4.20 $\pm$ 1.2	2.68 $\pm$ 1.5	1.50 $\pm$ 0.3	3.63 $\pm$ 2.9	ns
Interferons	IFN $\alpha$	3.56 $\pm$ 1.1	4.25 $\pm$ 1.8	3.88 $\pm$ 0.8	5.45 $\pm$ 4.5	ns
	<b>IFN<math>\beta</math></b>	21.88 $\pm$ 17.4	42.25 $\pm$ 19.7	3911.05 $\pm$ 726.6	673.17 $\pm$ 195.4	0.0011**
	IFN $\lambda$ 1	2.27 $\pm$ 0.9	2.75 $\pm$ 1.1	5.31 $\pm$ 1.0	3.53 $\pm$ 1.5	ns
Interferon stimulated genes	<b>PKR</b>	1.87 $\pm$ 0.2	2.23 $\pm$ 2.0	4.74 $\pm$ 2.1	1.96 $\pm$ 0.9	0.0392*
	<b>OAS</b>	59.25 $\pm$ 6.9	74.35 $\pm$ 21.3	1677.44 $\pm$ 373.0	100.67 $\pm$ 69.9	0.0015**
	<b>MX1</b>	1.57 $\pm$ 0.2	1.49 $\pm$ 0.2	22.04 $\pm$ 4.6	2.75 $\pm$ 0.8	0.0031**
	<b>MX2</b>	6.46 $\pm$ 1.4	6.96 $\pm$ 1.4	61.01 $\pm$ 11.0	6.44 $\pm$ 3.4	0.0001**
	ISG12	47.60 $\pm$ 15.2	66.88 $\pm$ 18.3	111.00 $\pm$ 60.1	48.99 $\pm$ 43.9	ns
	<b>ISG15</b>	2648.03 $\pm$ 1365.5	5241.87 $\pm$ 1400.4	209624.87 $\pm$ 54923.2	22576.62 $\pm$ 1243.8	0.0003**

Ns: not significant, SD: Standard deviation, \*\**P*<0.01 and \**P*<0.05, Genes showing significant differences are represented in bold.

**Table 2. Statistical comparisons between mRNA relative expressions in swIAV H1N2 (I) single infections and co-inoculations of NPTr cells with PRRSV-1 (P) with 1 and 6 hours' delay. The mean values and the standard deviations of the relative expression are shown for every condition. *P* values are presented in the last four columns. Comparisons were made using one-way ANOVA test and Tukey's post-test.**

	Messenger	mRNA relative expression $\pm$ SD									I23 vs.	I18 vs.	I24 vs.	I24 vs.
	RNA	Control	P24	I18	I23	I24	P24_I23	P24_I18	I24_P23	I24_P18	P24_I23	P24_I18	I24_P23	I24_P18
Pattern recognition receptors	<b>RIG-I</b>	1.94 $\pm$ 0.1	2.04 $\pm$ 0.3	16.79 $\pm$ 2.87	19.89 $\pm$ 5.82	14.83 $\pm$ 2.5	6.13 $\pm$ 3.62	9.18 $\pm$ 2.96	21.36 $\pm$ 8.4	28.02 $\pm$ 5.4	0.0079**	ns	ns	0.0486*
	<b>MDA5</b>	2.09 $\pm$ 0.3	1.71 $\pm$ 0.2	5.28 $\pm$ 0.23	5.75 $\pm$ 1.42	4.50 $\pm$ 0.7	3.31 $\pm$ 0.88	3.78 $\pm$ 1.13	5.75 $\pm$ 1.9	8.44 $\pm$ 1.3	ns	ns	ns	ns
	TLR2	3.72 $\pm$ 1.6	4.49 $\pm$ 2.4	8.72 $\pm$ 3.3	6.51 $\pm$ 3.82	6.99 $\pm$ 5.8	7.77 $\pm$ 3.95	7.45 $\pm$ 5.65	6.76 $\pm$ 2.5	8.08 $\pm$ 5.7	ns	ns	ns	ns
	TLR3	2.78 $\pm$ 0.4	2.23 $\pm$ 0.3	2.63 $\pm$ 0.24	2.13 $\pm$ 0.54	1.92 $\pm$ 0.3	2.62 $\pm$ 0.57	2.94 $\pm$ 0.6	2.31 $\pm$ 0.2	2.31 $\pm$ 0.4	ns	ns	ns	ns
	TLR4	2.45 $\pm$ 2.0	4.26 $\pm$ 4.9	1.57 $\pm$ 2.44	2.08 $\pm$ 1.41	3.15 $\pm$ 4.8	4.26 $\pm$ 6.36	4.79 $\pm$ 3.44	6.43 $\pm$ 4.5	1.53 $\pm$ 1.6	ns	ns	ns	ns
	<b>TLR6</b>	6.80 $\pm$ 2.0	6.02 $\pm$ 1.4	3.03 $\pm$ 1.17	3.52 $\pm$ 0.29	3.42 $\pm$ 0.6	7.6 $\pm$ 1.89	7.05 $\pm$ 1.8	4.27 $\pm$ 0.6	4.47 $\pm$ 1.5	0.0013**	0.0004**	ns	ns
	TLR7	2.65 $\pm$ 0.9	2.01 $\pm$ 0.6	2.54 $\pm$ 0.46	2.01 $\pm$ 0.6	2.01 $\pm$ 0.6	2.01 $\pm$ 0.6	2.01 $\pm$ 0.6	2.80 $\pm$ 0.3	2.76 $\pm$ 0.4	ns	ns	ns	ns
	TLR8	4.90 $\pm$ 5.2	9.41 $\pm$ 12.6	9.35 $\pm$ 6.56	10.96 $\pm$ 9.64	15.46 $\pm$ 22.1	86.97 $\pm$ 62.99	20.39 $\pm$ 21.46	14.43 $\pm$ 20.1	4.43 $\pm$ 8.8	ns	ns	ns	ns
	TLR9	9.83 $\pm$ 15.9	23.21 $\pm$ 16.8	36.25 $\pm$ 13.4	28.91 $\pm$ 13.8	19.31 $\pm$ 9.5	21.34 $\pm$ 8.78	19.87 $\pm$ 10.09	9.12 $\pm$ 5.9	18.07 $\pm$ 12.0	ns	ns	ns	ns
	<b>TLR10</b>	4.20 $\pm$ 1.2	2.68 $\pm$ 1.5	2.03 $\pm$ 1.01	2.28 $\pm$ 0.65	1.50 $\pm$ 0.3	4.77 $\pm$ 1.81	5.15 $\pm$ 2.01	2.73 $\pm$ 0.6	2.20 $\pm$ 1.6	0.0448*	0.0062**	ns	ns
Interferons	<b>IFN<math>\alpha</math></b>	3.56 $\pm$ 1.1	4.25 $\pm$ 1.8	3.62 $\pm$ 0.89	2.97 $\pm$ 0.41	3.88 $\pm$ 0.8	5.82 $\pm$ 1.69	4.47 $\pm$ 2.05	2.77 $\pm$ 0.5	2.62 $\pm$ 0.7	0.0317*	ns	ns	ns
	<b>IFN<math>\beta</math></b>	21.88 $\pm$ 17.4	42.25 $\pm$ 19.7	4974.1 $\pm$ 858.5	7334.6 $\pm$ 2013.14	3911.05 $\pm$ 726.6	1897.06 $\pm$ 1072.05	3384.59 $\pm$ 216.18	5237.35 $\pm$ 1460.98	161.37 $\pm$ 1662.9	0.006**	ns	ns	0.0097**
	IFN $\lambda$ 1	2.27 $\pm$ 0.9	2.75 $\pm$ 1.1	5.97 $\pm$ 1.92	6.12 $\pm$ 1.94	5.31 $\pm$ 1.0	4.33 $\pm$ 1.10	5.78 $\pm$ 1.71	5.68 $\pm$ 1.5	8.71 $\pm$ 2.2	ns	ns	ns	ns
Interferon stimulated genes	<b>PKR</b>	1.87 $\pm$ 0.2	2.23 $\pm$ 2.0	6.52 $\pm$ 0.69	7.72 $\pm$ 0.68	4.74 $\pm$ 2.1	3.10 $\pm$ 1.45	4.84 $\pm$ 0.98	5.91 $\pm$ 2.2	6.24 $\pm$ 3.6	0.0026*	ns	ns	ns
	<b>OAS</b>	59.25 $\pm$ 6.9	74.35 $\pm$ 21.3	2302.61 $\pm$ 442.6	2409.17 $\pm$ 625.62	1677.44 $\pm$ 373.0	293.18 $\pm$ 169.09	640.35 $\pm$ 132.64	2034.66 $\pm$ 508.0	4931.54 $\pm$ 1228.9	0.0004**	0.0046**	ns	0.0067**
	<b>MX1</b>	1.57 $\pm$ 0.2	1.49 $\pm$ 0.2	27 $\pm$ 2.89	32.27 $\pm$ 7.22	22.04 $\pm$ 4.6	7.28 $\pm$ 3.57	12.12 $\pm$ 1.95	32.67 $\pm$ 7.8	53.08 $\pm$ 11.8	0.0054**	ns	ns	ns
	<b>MX2</b>	6.46 $\pm$ 1.4	6.96 $\pm$ 1.4	76.60 $\pm$ 9.57	104.36 $\pm$ 24.31	61.01 $\pm$ 11.0	17.34 $\pm$ 8.96	34.70 $\pm$ 6.05	92.21 $\pm$ 28.5	159.12 $\pm$ 37.5	0.0002**	0.0436*	ns	0.0229*
	<b>ISG12</b>	47.6 $\pm$ 15.2	66.88 $\pm$ 18.3	138.32 $\pm$ 29.34	141.56 $\pm$ 26.67	111.00 $\pm$ 60.1	74.99 $\pm$ 49.32	78.26 $\pm$ 38.43	117.07 $\pm$ 26.1	147.15 $\pm$ 35.6	0.0292*	ns	ns	ns
	ISG15	2648.03 $\pm$ 1365.5	5241.87 $\pm$ 1400.4	244759.59 $\pm$ 144055.18	272094.50 $\pm$ 65321.64	209624.87 $\pm$ 54923.2	80336.62 $\pm$ 83086.94	98097.28 $\pm$ 20568.71	226895.23 $\pm$ 163975.2	682603.42 $\pm$ 230651.7	ns	ns	ns	ns

Ns: not significant, SD: Standard deviation, \*\**P*<0.01 and \**P*<0.05, Genes showing significant differences in one of the conditions at least are represented in bold.

**Table 3. Statistical comparisons between mRNA relative expressions in swIAV H1N2 (I) single infections and co-inoculations of NPTr cells with active (P) and inactivated PRRSV-1 (Pinac). The mean values and the standard deviations of the relative expression are shown for every condition. P values are presented in the last three columns. Comparisons were made using one-way ANOVA test and Tukey's post-test.**

N s : n o t s i n t e r f e r o n s t i m u l a t e d g e n e s	Messenger RNA	mRNA relative expression $\pm$ SD					I24 vs I24_P24	I24 vs I24_Pinac	I24_P24 vs I24_Pinac
		Control	P24	I24	I24_P24	I24_Pinac			
PRRS	<b>RIG-I</b>	2.79 $\pm$ 0.9	3.91 $\pm$ 0.5	105.93 $\pm$ 26.1	1.38 $\pm$ 0.2	4.70 $\pm$ 1.2	<0.0001 **	0.0004**	<0.0001**
	<b>MDA5</b>	2.32 $\pm$ 0.2	2.14 $\pm$ 0.2	13.87 $\pm$ 0.8	1.51 $\pm$ 0.3	2.69 $\pm$ 0.5	<0.0001 **	ns	<0.0001**
Interferons	<b>IFN<math>\beta</math></b>	9.39 $\pm$ 3.2	8.46 $\pm$ 3.9	665.89 $\pm$ 116.5	9.29 $\pm$ 9.3	26.78 $\pm$ 6.5	<0.0001 **	ns	0.0006 **
	<b>IFN <math>\lambda</math>1</b>	225.87 $\pm$ 49.1	29.85 $\pm$ 21.4	780.17 $\pm$ 228.9	27.64 $\pm$ 3.9	75.39 $\pm$ 62.8	<0.0001**	<0.0001**	ns
	<b>IFN<math>\lambda</math>3</b>	32.55 $\pm$ 37.9	166.08 $\pm$ 78.6	30523.76 $\pm$ 9265.3	277.79 $\pm$ 64.6	938.36 $\pm$ 372.4	<0.0001**	0.0074**	<0.0001**
Interferon stimulated genes	<b>PKR</b>	5.30 $\pm$ 0.8	3.92 $\pm$ 0.6	30.70 $\pm$ 3.5	1.15 $\pm$ 0.1	5.36 $\pm$ 0.8	<0.0001**	<0.0001**	<0.0001**
	<b>OAS</b>	1.57 $\pm$ 0.5	18.01 $\pm$ 3.2	434.40 $\pm$ 109.1	4.43 $\pm$ 0.9	23.18 $\pm$ 8.2	<0.0001**	<0.0001**	<0.0001**
	<b>MX1</b>	2.54 $\pm$ 0.6	4.42 $\pm$ 0.8	164.11 $\pm$ 28.5	1.45 $\pm$ 0.3	8.74 $\pm$ 2.3	<0.0001**	0.0070**	<0.0001**
	<b>MX2</b>	6.62 $\pm$ 1.2	10.64 $\pm$ 2.9	527.58 $\pm$ 87.1	1.67 $\pm$ 0.4	15.54 $\pm$ 3.8	<0.0001**	0.0001 **	<0.0001**
	<b>ISG12</b>	2.78 $\pm$ 0.3	1.79 $\pm$ 0.2	6.32 $\pm$ 0.7	1.50 $\pm$ 0.2	2.90 $\pm$ 0.4	<0.0001**	0.0180*	<0.0001**
	<b>ISG15</b>	1.64 $\pm$ 0.3	7.35 $\pm$ 1.5	250.15 $\pm$ 118.5	8.57 $\pm$ 1.6	17.95 $\pm$ 5.8	<0.0001**	ns	0.001**

Ns: not significant, SD: Standard deviation, \*\* $P$ <0.01 \* $P$ <0.05, Genes showing significant differences in one of the conditions at least are represented in bold.

**Table 4. Statistical comparisons between mRNA relative expressions in swIAV H1N2 (I) single infections and multiple infections of Precision-Cut Lung Slices (PCLS) with active (P) and inactivated PRRSV-1 (Pinac). The mean values and the standard deviations of the relative expression are shown for every condition. *P* values are presented in the last three columns. Comparisons were made using one-way ANOVA test and Tukey's post-test.**

	Messenger RNA	mRNA relative expression ± SD					I24	I24	I24_P24
		Control	P24	I24	I24_P24	I24_Pinac	vs I24_P24	vs I24_Pinac	vs I24_Pinac
PRRS	<b>RIGI</b>	20.23± 29.5	24.55 ± 12.5	21647.0 ± 5685.1	31.14 ± 22.7	49.87 ± 22.4	<0.0001 **	0.0057**	ns
	<b>MDA5</b>	69.12 ± 97.6	39.05 ± 30.4	2634.07 ± 7029.9	21.61 ± 12.1	75.96 ± 54.8	<0.0001 **	ns	ns
Interferons	<b>IFNβ</b>	1.37 ± 1.5	1485.37 ± 1068.1	615.66 ± 1558.2	457.14 ± 274.2	44.01 ± 28.6	ns	ns	0.0027 **
Interferon stimulated genes	<b>PKR</b>	23.99 ± 34.3	16.43 ± 10.9	837.37 ± 2222.9	11.81 ± 7.4	26.83 ± 15.9	0.0001**	ns	ns
	<b>OAS</b>	15.61 ± 24.8	32.86 ± 33.1	785.82 ± 1158.7	21.19 ± 28.4	51.40 ± 65.6	0.0271*	ns	ns
	<b>MX1</b>	58.92 ± 14.1	104.76 ± 82.8	14702.68 ± 38494.2	283.59 ± 214.5	477.83 ± 168.3	0.0007**	ns	ns
	<b>MX2</b>	11.75 ± 10.1	10.45 ± 11.9	2258.53 ± 5784.8	22.17 ± 20.8	52.90 ± 23.3	<0.0001**	ns	ns
	<b>ISG12</b>	16.77 ± 19.1	73.45 ± 60.9	5583.01 ± 10106.2	869.02 ± 530.3	571.86 ± 265.8	ns	ns	ns
	<b>ISG15</b>	76.74 ± 78.6	204.13 ± 338.9	17267.75 ± 26798.8	182.57 ± 107.4	2508.50 ± 3556.5	0.0055**	ns	ns

t significant, SD: Standard deviation, \*\**P*<0.01 \**P*<0.05, Genes showing significant differences in one of the conditions at least are represented in bold.