

## Supplementary Information

**Supplementary Table S1.** Ferret sera biochemistry at day 0, 4, and 14 post treatment onset of EGCG treatment for 5 days (d0-d4) with 125 mg/kg twice daily compared to reference ranges from Hein et al. [41].

Day	0						4						14						Ref.
Treatment	Placebo			EGCG			Placebo			EGCG			Placebo			EGCG			Range
Ferret	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
Enzymes (IU/L)																			
ALT	228	85	18	43	33	16	23	82	26	53	23	13	24	69	22	37	25	106	49.0–242.8
			3	1	3	7	6		1	4	9	2	4		1	8	1		
AST	168	13	12	13	19	12	15	11	12	17	10	11	85	58	78	11	81	79	40.1–142.7
		7	0	3	1	0	0	4	4	1	8	6				0			
ALP	10	8	35	52	und	52	29	21	39	69	30	25	29	23	37	70	33	28	13.3–141.6
GGT	1	1	5	4	1	1	2	1	4	4	2	1	1	1	1	4	3	1	0.2–14.0
Amylase	34	und	43	35	38	31	39	25	29	42	37	29	29	22	40	38	34	34	19.4–61.9
Lipase	58	54	48	39	74	34	30	33	32	33	40	30	30	41	34	32	37	32	73.2–351.1
CK	446	25	32	21	47	32	41	24	27	29	25	26	15	11	23	22	20	250	94.0–730.9
		2	4	1	2	1	7	4	6	5	0	1	1	4	2	9	1		
Substrates																			
Bilirubin (μM/L)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	1	1	1	1	1	0.0–3.3
Albumin (g/L)	33	34	33	32	38	31	29	33	33	32	30	34	27	30	29	33	29	33	28.0–43.9
Protein (g/L)	77	63	60	63	76	58	64	63	58	64	60	63	58	57	53	62	56	59	54.7–77.9
Cholesterol (mM/L)	5	5.7	8.7	8	4.5	5	5.2	5	6.1	9.3	4.9	5.1	5.8	4.9	9.5	8.8	3.8	5.4	2.4–7.1
Triglycerides (mM/L)	0.7	0.8	1.1	1	0.5	1.1	0.5	0.5	0.5	1	0.5	0.8	0.4	0.7	0.8	1.1	0.3	0.4	0.5–2.8

<b>Glucose</b> (mM/L)	4.2	3.6	4.2	3.4	4.1	3.7	5.7	5.2	7	4.9	5.4	8.1	6.4	5.5	7	5.6	6.4	7.2	3.0–8.5
<b>Urea (mM/L)</b>	10	11	12	12	10	11	9	10	10	13	12	6	9	12	10	14	11	7	4.8–16.9
<b>Creatinine</b> (μM/L)	54	59	56	55	58	51	37	45	39	43	57	19	47	50	34	32	43	34	23.0–76.7
<b>Electrolytes (mM/L)</b>																			
<b>Sodium</b>	150	151	152	151	147	148	148	149	151	149	149	147	148	152	151	149	149	150	140.1–169.7
<b>Potassium</b>	5.1	5.5	4.8	5.3	5.6	5	4.8	5.2	4.8	5	5.2	5	5.4	5.7	4.8	4.9	5.5	5	1.0–3.1
<b>Chloride</b>	119	119	116	117	114	121	118	120	116	116	115	114	118	121	116	119	118	118	108.0–119.9
<b>Calcium</b>	1.9	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.0	2.1	2.2	2.2	2.1	2.2	2.0–2.6
<b>Phosphate</b>	1.7	1.8	2.0	1.9	2.1	1.9	1.6	1.6	2.3	2.0	2.0	1.8	1.9	2.2	2.3	2.5	2.2	1.7	1.0–3.1
<b>Magnesium</b>	1.0	1.0	0.9	0.9	1.0	0.9	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9–1.6

ALT, Alanine transaminase; AST, Aspartate transaminase; ALP, Alkaline phosphatase; GGT, Gamma-glutamyl transferase; CK, Creatine kinase.

**Supplementary Table S2. Ferret nasal wash and tissue virus genome pyrosequencing resulting proportion of NA-H275Y oseltamivir resistance mutation.**

<b>Treatment</b>	<b>Ferret</b>	<b>Nasal wash D4</b>	<b>Lung left cranial</b>	<b>Lung right cranial</b>	<b>Soft palate</b>	<b>Nasal turbinate</b>
<b>Placebo</b>	<b>1</b>	<5%	<5%	5.8%	<5%	<5%
	<b>2</b>	<5%	<5%	<5%	<5%	<5%
	<b>3</b>	<5%	<5%	<5%	<5%	<5%
	<b>4</b>	<5%	<5%	<5%	<5%	<5%
<b>EGCG</b>	<b>5</b>	<5%	Undetected	Undetected	<5%	<5%
	<b>6</b>	<5%	<5%	<5%	<5%	<5%

	7	<5%	Undetected	<5%	Undetected	<5%
	8	<5%	<5%	<5%	<5%	<5%
OST	9	<5%	Undetected	Undetected	<5%	<5%
	10	<5%	<5%	<5%	Undetected	<5%
	11	<5%	<5%	<5%	8.4%	<5%
	12	<5%	<5%	Undetected	<5%	<5%
EGCG + OST	13	<5%	<5%	Undetected	<5%	<5%
	14	<5%	<5%	Undetected	<5%	<5%
	15	<5%	Undetected	Undetected	5.2%	<5%
	16	<5%	<5%	6.7%	<5%	<5%