

1. Title:

Resveratrol and curcumin improve intestinal mucosal integrity and decrease m⁶A RNA methylation in the intestine of weaning piglets.

2. Authorship:

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Supporting information
Table S1. Composition and nutrient levels of the basal diet

Ingredients	%
Corn	65.8
Soybean meal	24
Soybean oil	2.5
Fish meal	1.5
Limestone	0.85
CaHPO ₄	1
Salt	0.35
Premix ^a	4
Nutrient	
Digestive energy(MJ/kg) ^b	1525
Protein (%) ^b	18.5
Calcium (%) ^b	0.70
Phosphorus (%) ^b	0.55
Lysine (%) ^b	1.32
Crude fibre (%) ^b	3.25

^a Supplied per kilogram of diet: vitamin A, 2200 IU; vitamin D-3,220 IU; vitamin E, 16 IU; vitamin K-3, 0.5 mg; biotin, 0.05 mg; folic acid, 0.3 mg; pantothenic acid, 10 mg; niacin, 15 mg; vitamin B2, 3.6 mg; vitamin B1, 1.0 mg; vitamin B6, 1.5 mg; Cu, 6 mg; Fe, 100 mg; Zn 110 mg; Mn, 4 mg; Se, 0.3 mg; I, 0.14 mg

^b calculated value

Table S2. Primer sequence for qRT-PCR

Primers	Accession no.	Sequence	
		F	R
<i>β-ACTIN</i>	DQ845171.1	CGG CAT CCA CGA AAC TAC CT	ACT CCT GCT TGC TGA TCC AC
<i>OCN</i>	NM_001163647.2	CCT CCT CCC CTT TCG GAC TA	ACG CCT CCA AGT TAC CAC TG
<i>ZO-1</i>	AJ318101.1	GCC GCC TCC TGA GTT TGA TA	CTA TGG AGC TCA ACA CCC CG
<i>CLDN1</i>	NM_001244539.1	ACA CCA CTT TGC AAG CAA CC	ACT GGG GTC ATG GGG TCA TA
<i>SOD1</i>	NM_001190422.1	GTA CCA GTG CAG GTC CTC AC	TCC CAA TTA CAC CAC AGG CC
<i>GPXI</i>	NM214201 . 1	TCG GTG TAT GCC TTC TCT GC	CAA ACT GGT TGC ACG GGA AG
<i>HO-1</i>	NM_001004027.1	ATG CCC TGG AGG AGG AGA TT	CAG GGC CTT CTG AGC AAT CT
<i>METTL3</i>	XM_003128580.5	TGA GGC TCC TGG AAG CAA AG	TCT GTC AGG GTC CCA TAG GG
<i>METTL14</i>	XM_003129231.6	GTG GTT CTG GGG AGG GAT TG	GAA GTC CCC GTC TGT GCT AC
<i>FTO</i>	KM232950.1	CCC CAG AAA ATG CCG TAC CT	ACC AGG GGT CTC TAT GTC CC
<i>ALKBH5</i>	XM_021067995.1	CGT GTC CGT GTC CTT CTT CA	AGG ATG ATG ACA GCT CTG CG
<i>YTHDF2</i>	XM_005665152.3	CCA AGG GAT GGC AGC ACT AA	TTT GCC ACA GGA CCC TTG TT

β-ACTIN, beta-actin; *OCN*, occludin; *ZO-1*, zonula occluden-1; *CLDN1*, claudin 1; *SOD1*, superoxide Dismutase 1; *GPXI*, glutathione peroxidase 1; *HO-1*, Heme Oxygenase-1; *METTL3*, methyltransferase like 3; *METTL14*, methyltransferase like 14; *FTO*, fat mass and obesity associated protein; *ALKBH5*, alkB homolog 5; *YTHDF2*, YTH N6-methyladenosine RNA binding protein 2.

Table S3. Primer sequence for MeRIP-PCR

Primers	Accession no.	Sequence	
		F	R
<i>OCNL</i>	NM_001163647.2	TCG GGT TCG TTT CCA CTG AG	AGA CTT TAT TGC AGG GGC CC
<i>CLDN1</i>	NM_001244539.1	CCG TGT GGG AAC AAC CAG AA	GCC CTC TCC CCA CAT TCG
<i>ZO-1</i>	AJ318101.1	GCC GCC TCC TGA GTT TGA TA	CTA TGG AGC TCA ACA CCC CG
<i>HO-1</i>	NM_001004027.1	CAG CTG TTT CTG AGC CTC CA	GGA ACG AAG AGT GGC TCC AA

OCNL, occludin; *ZO-1*, zonula occluden-1; *CLDN1*, claudin 1; *HO-1*, Heme Oxygenase-1.