

# Effects of suckling piglets learning feeding behavior from the sow on their welfare and jejenum morphological development

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## Supplementary material

Table S1. Baseline characteristics of sows and litters in the SL and SF groups.

Parameter	SL group (n=6)	SF group (n=6)	P-value
Sow parity	2.5 ± 0	2.5 ± 0	1
Number of live piglets per litter	11.33 ± 1.21	11.40 ± 1.34	>0.05
Average birth weight per piglet (kg)	1.31 ± 0.12	1.180 ± 0.08	>0.05
Sex ratio (male/female)	1.04 ± 0.11	0.96 ± 0.09	>0.05

Table S2. Nutrient composition and content of feed<sup>1</sup>

Nutrition	suckling piglet feed	suckling sow feed	weaning piglet feed
	content (%)		
Crude protein	≥ 18.0	≥ 17.0	≥ 16.5
Coarse fiber	≤ 4.0	≤ 7.0	≤ 6.0
Crude ash	≤ 7.0	≤ 9.0	≤ 7.0
Moisture	≤ 14.0	≤ 14.0	≤ 14.0
Total phosphorus	≥ 0.5	≥ 0.5	≥ 0.45
Sodium chloride	0.3-1.49	0.3-1.2	0.3-1.2
Calcium	0.4-1.5	0.7-1.3	0.5-1.2
Lysine	≥ 1.35	≥ 1.1	≥ 1.2

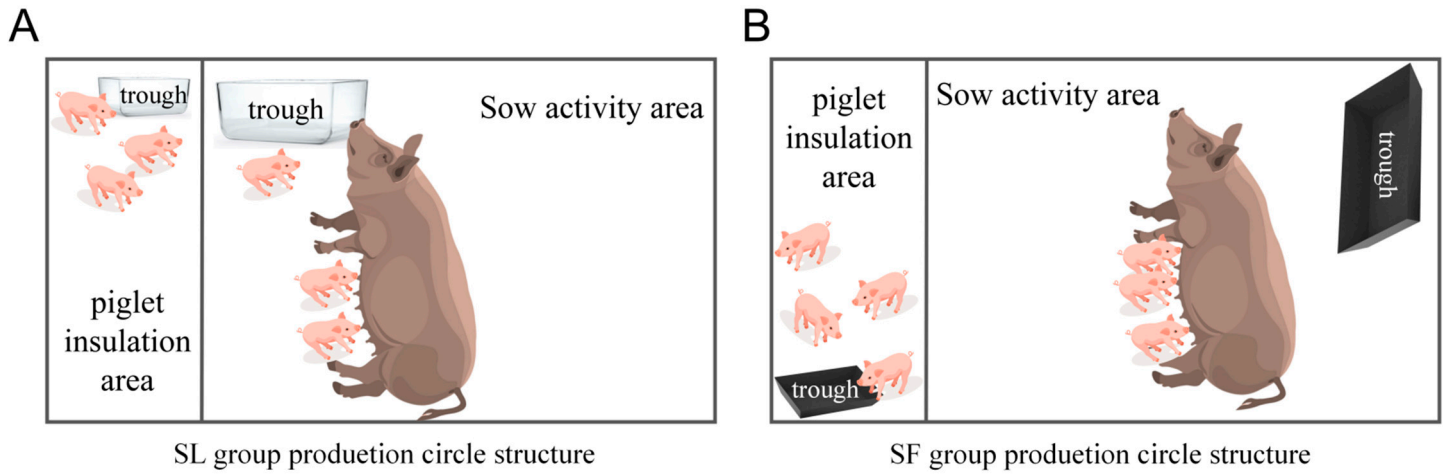
<sup>1</sup> The feed used in the tests were purchased from Wellhope Foods Co., Ltd.

### 3. Piglet behavioural categories and definitions.

Behavioural categories	Definitions
Manipulating feed within trough	Rooting, exploring, chewing or swallowing feed in troughs
Manipulating spilled feed of trough	Rooting, exploring, chewing or swallowing feed that falls to the ground from the trough

## Figure captions

**Figure S1:**



**Figure S1:** Production circle structure. A: SL group production circle structure. B: SF group production circle structure. SL = Sow-Learning group; SF = Separate-Feeding group.