

**Table S1.** Number and type of ejaculates used per male in the study.

	<b>F1</b>	<b>F2</b>	<b>F3</b>	<b>Total</b>
<b>Boar 1</b>	3	3	2	8
<b>Boar 2</b>	3	3	3	9
<b>Boar 3</b>	2	2	4	9
<b>Boar 4</b>	4	3	2	9
<b>Boar 5</b>	2	3	3	8
<b>Boar 6</b>	3	3	3	9
<b>Total</b>	17	17	17	51

**Table S2.** Red blood cells and reticulocytes parameters analyzed in three groups of piglets derived from AI (F1, F2, F3). Data are represented as mean  $\pm$  SD (standard deviation).

	<b>F1</b>	<b>F2</b>	<b>F3</b>	<b>p-value</b>
	<b>(n= 25)</b>	<b>(n= 27)</b>	<b>(n= 29)</b>	
<b>HTC (%)</b>	34.85 $\pm$ 4.87	33.99 $\pm$ 4.13	35.40 $\pm$ 3.25	0.437
<b>RBC (x10<sup>6</sup> cells/<math>\mu</math>L)</b>	5.96 $\pm$ 0.62	5.77 $\pm$ 0.55	5.96 $\pm$ 0.45	0.360
<b>HB (g/dl)</b>	10.94 $\pm$ 1.61	10.71 $\pm$ 1.43	11.35 $\pm$ 1.15	0.230
<b>MCV (fL)</b>	58.32 $\pm$ 5.01	58.82 $\pm$ 5.02	59.43 $\pm$ 3.47	0.666
<b>MCH (pg)</b>	18.30 $\pm$ 2.01	18.51 $\pm$ 1.91	19.03 $\pm$ 1.22	0.281
<b>MCHC (pg)</b>	31.34 $\pm$ 1.27	31.41 $\pm$ 1.27	32.04 $\pm$ 1.10	0.71
<b>CHCM (g/dl)</b>	28.94 $\pm$ 1.35	28.87 $\pm$ 1.10	29.28 $\pm$ 1.23	0.418
<b>RDW (%)</b>	18.48 $\pm$ 3.78	18.57 $\pm$ 3.95	17.07 $\pm$ 1.96	0.171
<b>CH (pg)</b>	16.94 $\pm$ 1.92	17.02 $\pm$ 1.64	17.42 $\pm$ 1.16	0.493
<b>CHDW (g/dl)</b>	3.18 $\pm$ 0.39	3.27 $\pm$ 0.47	3.08 $\pm$ 0.29	0.208
<b>HDW (g/dl)</b>	2.38 $\pm$ 0.25	2.43 $\pm$ 0.35	2.44 $\pm$ 0.20	0.659
<b>RET (%)</b>	4.33 $\pm$ 2.60	4.36 $\pm$ 1.71	4.27 $\pm$ 1.61	0.985
<b>RET (x10<sup>6</sup> cells/<math>\mu</math>L)</b>	0.25 $\pm$ 0.12	0.24 $\pm$ 0.08	0.25 $\pm$ 0.09	0.986
<b>McvR (fL)</b>	52.43 $\pm$ 6.84	51.87 $\pm$ 6.73	53.28 $\pm$ 4.94	0.691
<b>CHr (pg)</b>	15.10 $\pm$ 1.85	15.17 $\pm$ 1.92	15.53 $\pm$ 1.39	0.616

**Table S3.** White blood cells parameters analyzed in the three groups of piglets derived from AI (F1, F2, F3). Data are represented as mean  $\pm$  SD (standard deviation).

	<b>F1</b>	<b>F2</b>	<b>F3</b>	<b>p-value</b>
	<b>(n= 25)</b>	<b>(n= 27)</b>	<b>(n= 29)</b>	
<b>WBC (%)</b>	9.81 $\pm$ 3.13	8.46 $\pm$ 2.81	9.26 $\pm$ 3.40	0.299

<b>NEU (%)</b>	34.20±12.05	31.91±12.40	29.32±8.29	0.269
<b>NEU (x10<sup>3</sup> cells/μL)</b>	3.58±2.21	2.89±1.75	2.81±1.51	0.255
<b>LYM (%)</b>	55.19±12.66	57.49±13.55	60.94±8.87	0.201
<b>LYM (x10<sup>3</sup> cells/μL)</b>	5.18±1.42	4.66±1.47	5.52±1.85	0.145
<b>MON (%)</b>	5.78±2.68	6.29±3.08	5.11±2.42	0.273
<b>MON (x10<sup>3</sup> cells/μL)</b>	0.58±0.34	0.54±0.34	0.49±0.31	0.635
<b>EOS (%)</b>	1.47±1.04	1.26±0.69	1.17±0.62	0.390
<b>EOS (x10<sup>3</sup> cells/μL)</b>	0.14±0.10	0.11±0.08	0.11±0.07	0.315
<b>BAS (%)</b>	1.20±0.68	1.18±0.63	1.21±0.55	0.982
<b>BAS (x10<sup>3</sup> cells/μL)</b>	0.11±0.06	0.09±0.045	0.11±0.09	0.443

**Table S4.** Platelet parameters analyzed in the three groups of piglets derived from AI (F1, F2, F3). Data are represented as mean ± SD (standard deviation).

	<b>F1</b> <b>(n= 25)</b>	<b>F2</b> <b>(n= 27)</b>	<b>F3</b> <b>(n= 29)</b>	<b>p-value</b>
<b>PLT (x10<sup>3</sup> cells/μL)</b>	249.64±159.19	226.25±146.10	200.06±111.72	0.429
<b>PCT (%)</b>	0.34±0.32	0.26±0.17	0.24±0.12	0.236
<b>MPV (fL)</b>	12.97±4.10	12.25±3.03	12.65±3.51	0.768
<b>PDW (%)</b>	84.00±8.59	80.76±19.52	86.70±14.44	0.338
<b>MPC (g/dl)</b>	21.70±2.31	20.72±2.31	20.66±2.32	0.198
<b>PCDW (g/dl)</b>	7.19±0.73	7.23±0.95	7.22±0.80	0.983
<b>MPM (pg)</b>	1.53±0.19	1.49±0.19	1.43±0.17	0.185
<b>PMDW (pg)</b>	0.88±0.13	0.87±0.13	0.84±0.13	0.487
<b>Large PLT (x10<sup>3</sup> cells/μL)</b>	51.68±77.39	30.62±32.59	29.20±19.56	0.178

**Table S5.** Biochemical serum parameters analyzed in the three groups of piglets derived from AI (F1, F2, F3). Data are represented as mean ± SD (standard deviation). Different letters (a, b) in the same row indicate a significant difference between experimental groups (p< 0.05).

	<b>F1</b> <b>(n= 25)</b>	<b>F2</b> <b>(n= 27)</b>	<b>F3</b> <b>(n= 29)</b>	<b>p-value</b>
<b>PROT (g/dl)</b>	1.92±0.73	1.55±0.47	2.20±0.66	0.284
<b>ALB (g/dl)</b>	3.00±0.33	2.96±0.30	2.92±0.36	0.691
<b>GLO (g/dl)</b>	2.21±0.62	2.39±0.36	2.16±0.60	0.262
<b>CR (mg/dl)</b>	1.06±0.20	1.00±0.32	1.02±0.16	0.637
<b>URE (mg/dl)</b>	19.61±9.8	17.02±6.64	15.76±9.30	0.266
<b>GLU (mg/dl)</b>	107.46±15.11	103.94±22.39	104.78±16.74	0.774

<b>CHOL</b> (mg/dl)	151.99±42.54	164.67±57.11	156.23±41.87	0.620
<b>TRI</b> (mg/dl)	69.40±24.27	77.96±32.04	71.62±20.71	0.467
<b>LIP</b> (UI/L)	23.56±13.02	27.10±13.74	20.20±12.74	0.153
<b>CK</b> (UI/L)	5298.55±14535.36	4628.94±10123.61	8169.97±17331.45	0.621
<b>ALP</b> (UI/L)	1020.19±490.33	1062.45±231.40	1083.40±453.97	0.848
<b>GGT</b> (UI/L)	208.38±122.30	241.54±143.57	206.82±84.65	0.480
<b>AST</b> (UI/L)	194.16±310.59	154.87±110.76	206.04±269.91	0.721
<b>ALT</b> (UI/L)	49.40±40.98	57.05±42.31	60.88±51.39	0.647
<b>TBIL</b> (mg/dl)	0.22±0.22	0.20±0.25	0.13±0.15	0.246
<b>Ca</b> (mg/dl)	11.41±0.76	11.11±0.51	11.35±0.47	0.159
<b>K</b> (mmol/L)	9.20±2.17	9.54±1.31	8.79±1.70	0.291
<b>Na</b> (mmol/L)	130.70±11.12	133.66±11.04	129.42±14.68	0.437
<b>Cl</b> (mmol/L)	98.19±9.25	100.73±8.57	96.98±12.43	0.391

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