

**Effect of feeding level during the prepubertal phase on mammary gland development  
in female goat kids**

Clemence Panzuti, Christine Duvaux-Ponter, Rupert M. Bruckmaier, and Frederic Dessauge

SUPPLEMENTARY FILE

Table 1: List of antibodies used for Western Blotting and immunofluorescence analyses.

<b>Antigen</b>	<b>Antibody</b>	<b>Manufacturer</b>	<b>Reference</b>	<b>Dilution (Application)</b>
CK18	Mouse (clone NCH38)	Sigma-Aldrich	C8541-.2ML	(WB)
CK19	Mouse (clone b170)	Leica Biosystems	NCL-CK19	(WB)
E-cadherin (CDH1)	Mouse (clone CY-90)	Dako	M3612	(WB)
PCNA	Monoclonal Mouse (clone PC10)	Dako	M0879	(WB)
Ki67	Rabbit polyclonal	Abcam	ab15580	1/100 (IF)
Isotype control	Goat Anti-rabbit IgG (H+L), F(ab') <sub>2</sub> Fragment	Cell Signaling Technology	#4413S	1/400

Figure S1: Experimental design

Figure S2: Section of parenchyma before puberty and at midgestation in goat kids fed a low (L), control (C) or high (H) level of concentrate between weaning (30 days of age) and 235 days of age. Hematoxylin and Eosin staining. magnification 5

**A:** Prepubertal goat from L group, **B:** Prepubertal goat from C group, **C:** Prepubertal goat from H group, **D:** Midgestation goat from L group, **E:** Midgestation goat from C group, **F:** Midgestation goat from H group

\*Secretion

Figure 3: Plasma level of prolactin (ng/ml) before puberty and at midgestation in goats fed a low (L), control (C) or high (H) level of concentrate between weaning (30 days of age) and 235 days of age.

<sup>a-b</sup> Averages within the same line with different superscripts are significantly different ( $P < 0.05$ ).

Figure 4: Proportion of cells Ki67<sup>+</sup> before puberty and at midgestation in goats fed a low (L), control (C) or high (H) level of concentrate between weaning (30 days of age) and 235 days of age.

**A:** Cells expressing Ki67 (red) in parenchyma of prepubertal goat; **B:** Proportion of Ki67 positive cells in parenchyma before puberty; **C:** Cells expressing Ki67 (red) in parenchyma of goat at midgestation; **D:** Proportion of Ki67 positive cells in parenchyma at midgestation

Figure 5: Plasma level of IGF-I (ng/ml) before puberty and at midgestation in goats fed a low (L), control (C) or high (H) level of concentrate between weaning (30 days of age) and 235 days of age.

<sup>a-b</sup> Averages within the same line with different superscripts are significantly different ( $P < 0.05$ ).

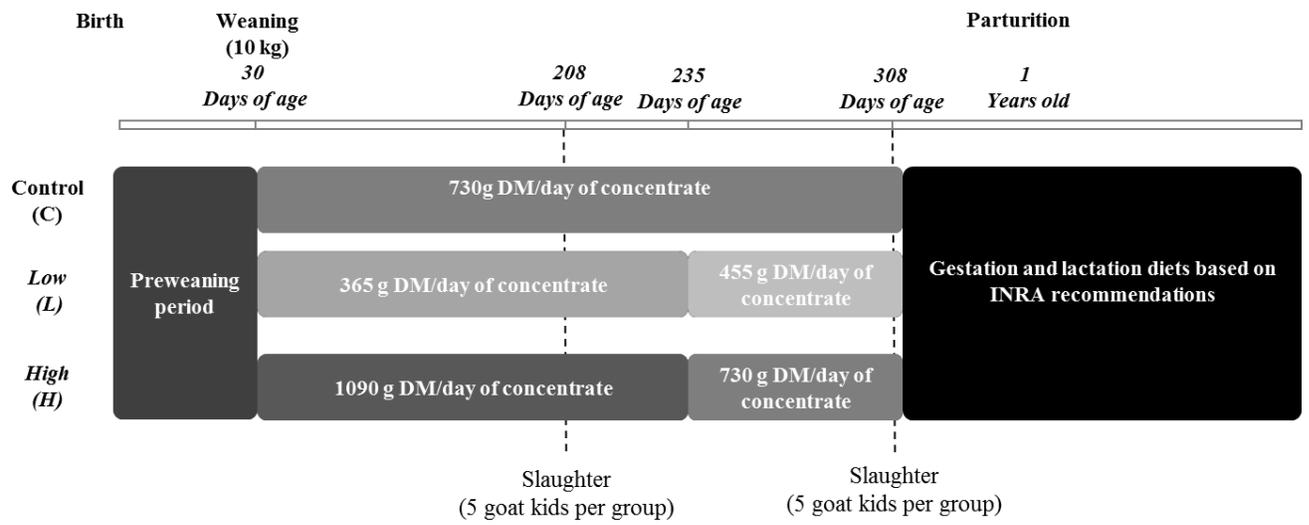


Figure S1

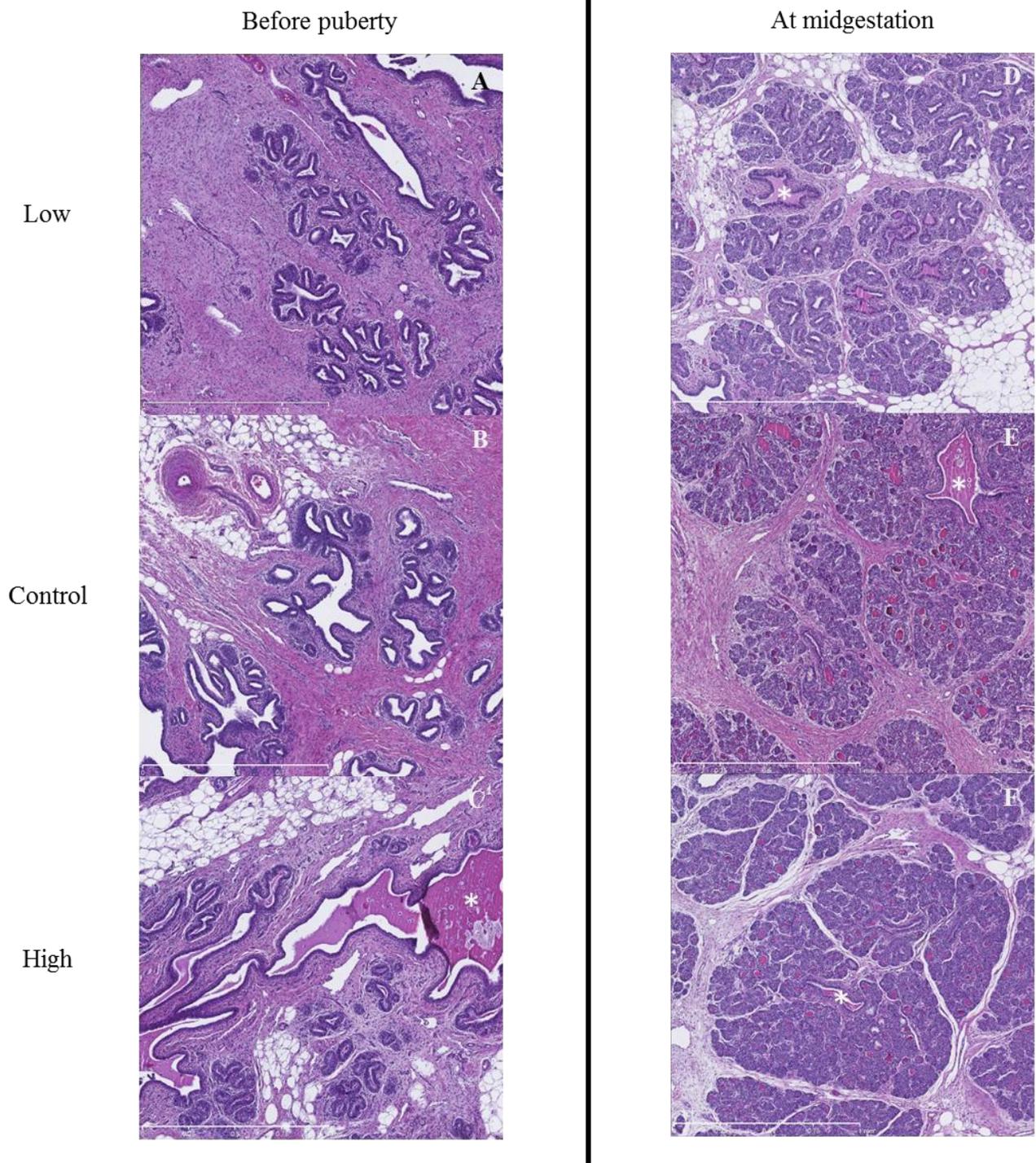


Figure S2

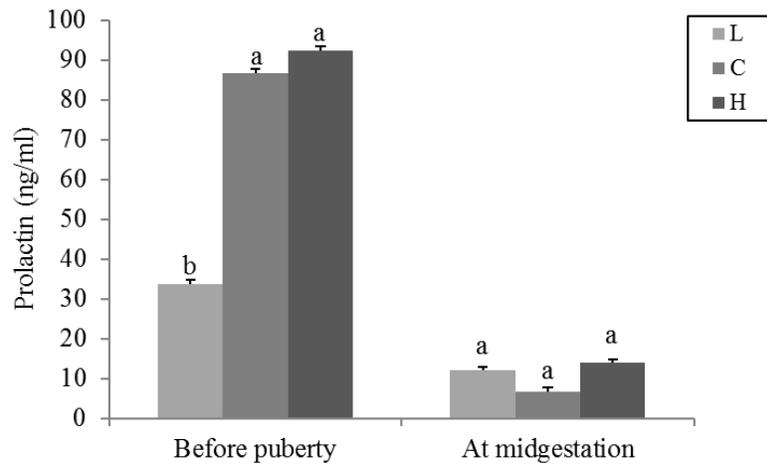


Figure S3

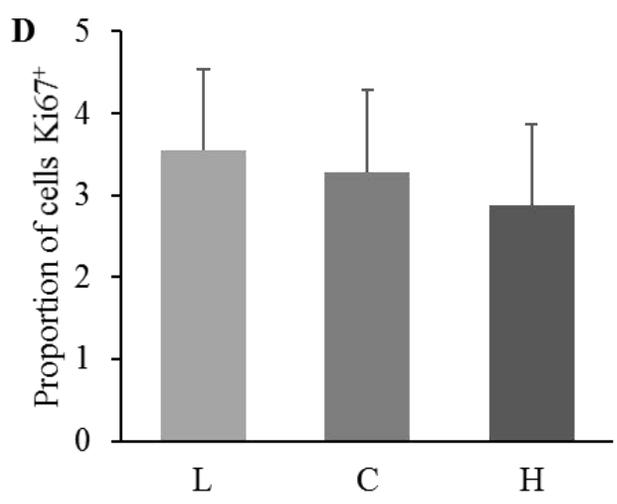
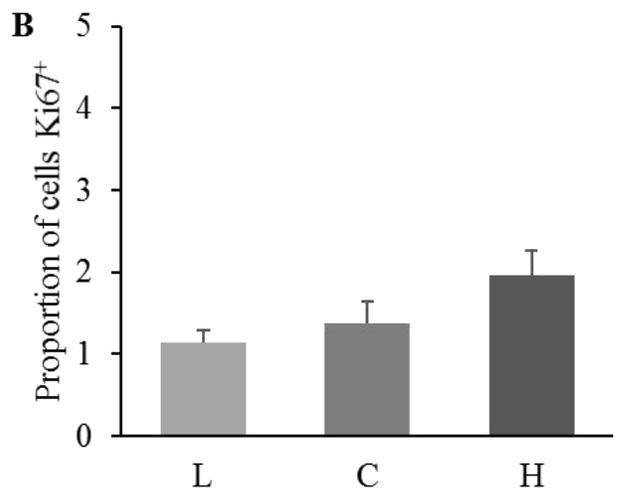
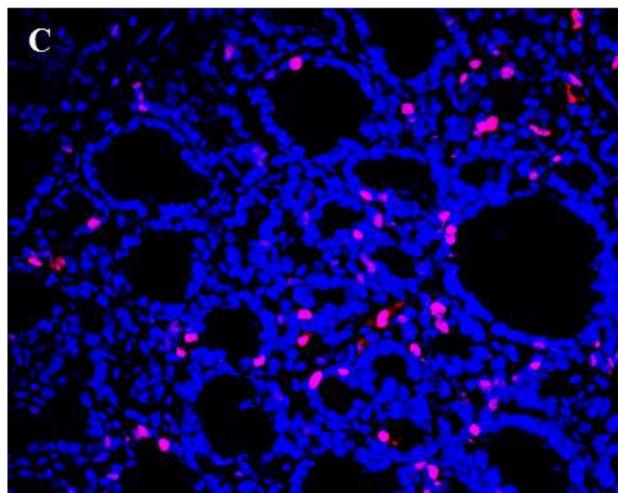
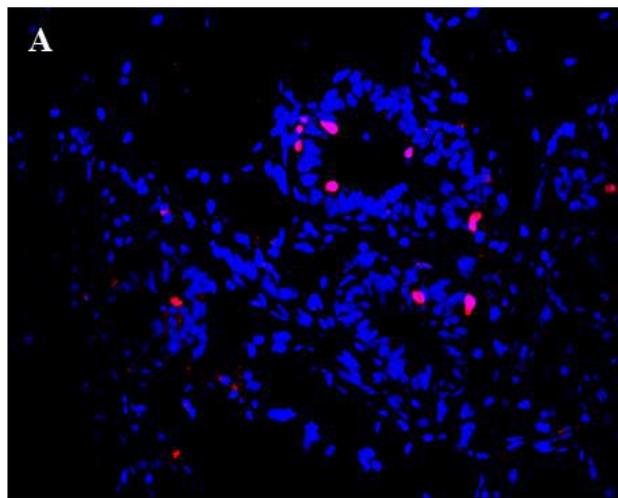


Figure S4

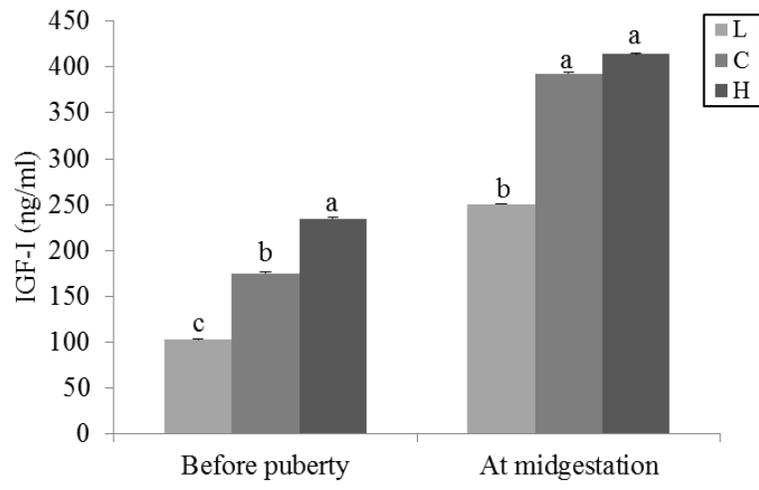


Figure S5