

# ***DAZL* knockout pigs as recipients for spermatogonial stem cell transplantation**

## **(Supplementary Material)**

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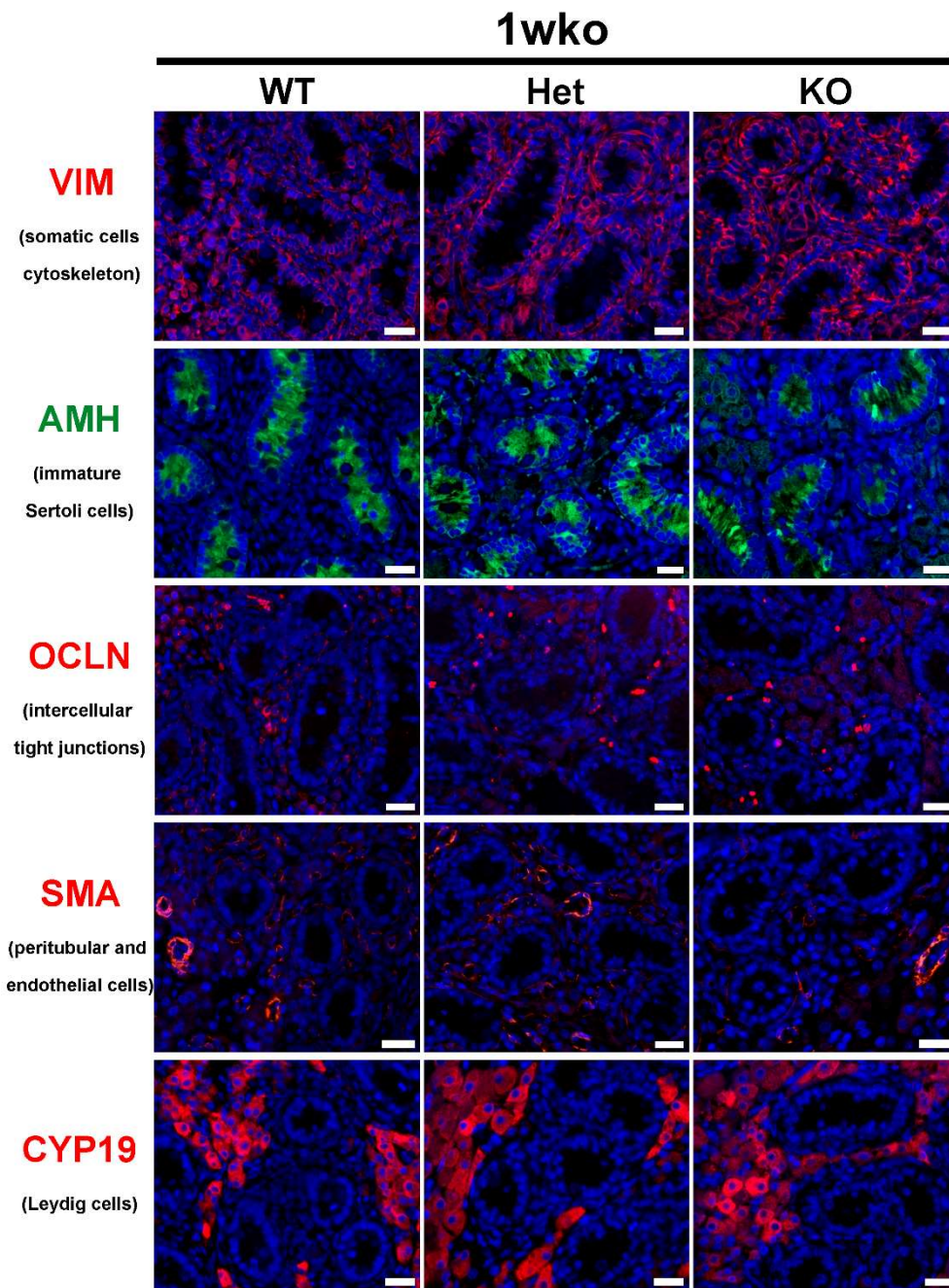
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### **\* Correspondence:**

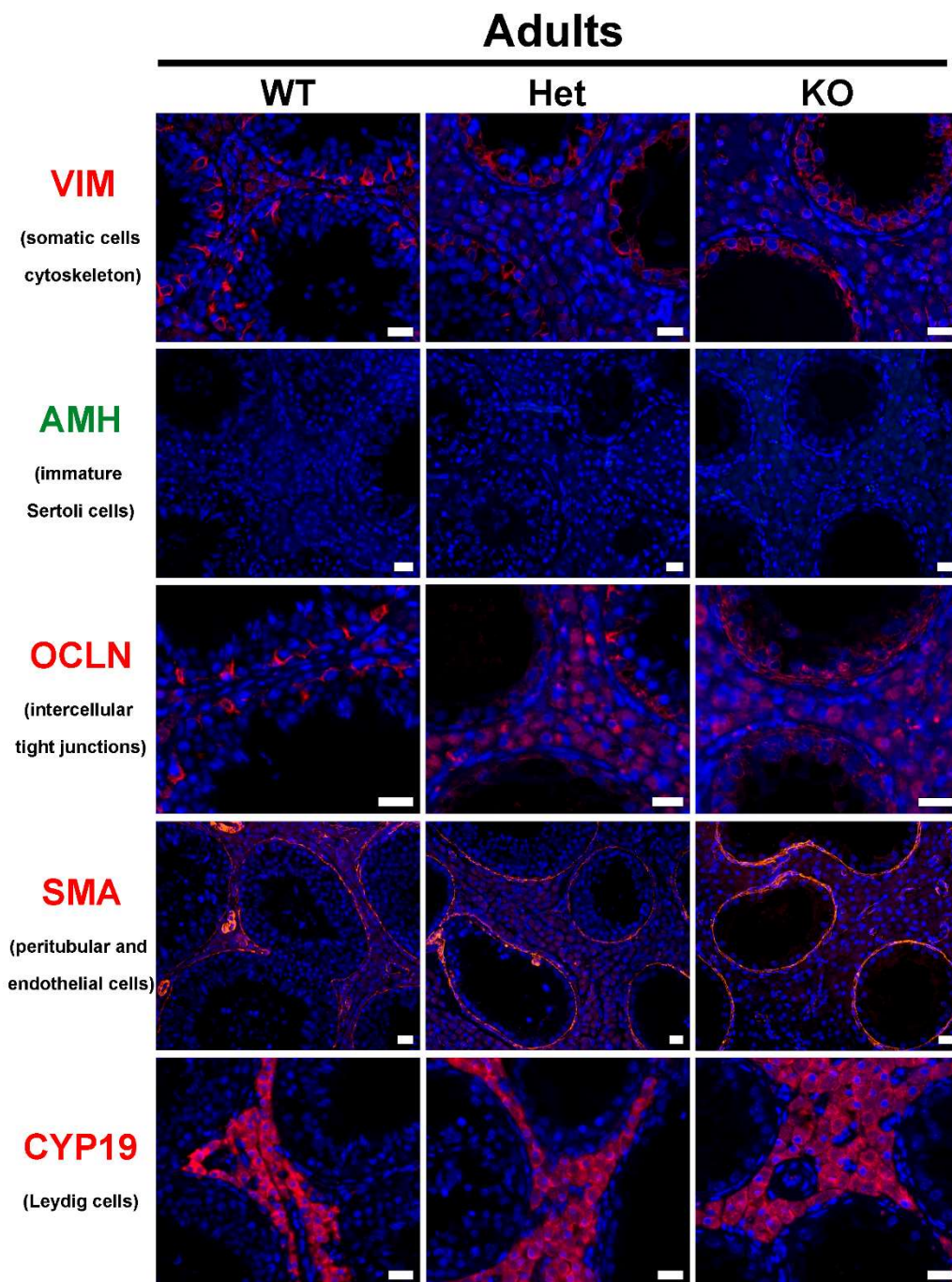
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**Supplementary Figure S1. The expression of markers of somatic cell function is similar between WT, Het and *DAZL*-KO pig testis at 1 week of age.** Vimentin (VIM) is an intermediate filament present in the cytoskeleton of testicular somatic cells, anti-Müllerian Hormone (AMH) is produced by immature Sertoli cells, occludin (OCN) is an intercellular tight junction protein, alpha-smooth muscle actin (SMA) is expressed by peritubular myoid and endothelial cells, and aromatase (CYP19) is a steroidogenic enzyme present on Leydig cells. Scale bar = 25µm.



**Supplementary Figure S2. The expression of markers of somatic cell function is similar between WT, Het and *DAZL*-KO pig testis at adulthood.** Vimentin (VIM) is an intermediate filament present in the cytoskeleton of testicular somatic cells, anti-Müllerian Hormone (AMH) is produced by immature Sertoli cells, occludin (OCLN) is a intercellular tight junction protein, alpha-smooth muscle actin (SMA) is expressed by peritubular myoid and endothelial cells, and aromatase (CYP19) is a steroidogenic enzyme present on Leydig cells. Scale bar = 25µm.

**Supplementary Table S1:** List of primers used for single nucleotide polymorphisms (SNP) analysis.

SNPs	Alt	Location	Direction	Sequence (5'-3')	Ta
C	T	1071051	Forward	GCATCTGCCTCTATTTTGTGTT	65
			Reverse	CCATGGCAGGCAGAAAGTT	
C	T	2778674	Forward	CAGGTGGTGGGAAGAAAAGA	65
			Reverse	ATGCACAGAGGTGCACACA	
G	T	3144768	Forward	GCTCTTTGGGAATTCACACTTT	60
			Reverse	TTTGCACATGTCCTGGAGAG	
C	A	6537618	Forward	CGGAGTTTTTCAGTTGGCTTC	65
			Reverse	TTACGAGGAACAAAGCAGACC	
A	G	6788853	Forward	CCTGGAGACCTCAAGCTCCT	65
			Reverse	TACACACAGACGTGCCCCTA	
G	T	8710551	Forward	CCCATGCGTTAGTATAGCTGTG	65
			Reverse	CGAAAGCCTCAGGTTCCCTT	
T	C	15331319	Forward	GGCAGACAAGCTGTTGTCAC	65
			Reverse	GGGGTGTGTGGGTAACAGAG	
T	C	24267515	Forward	CTTCCCATAGCCTGTGCAAT	60
			Reverse	CCGCTTTTGTGAAGTTTTC	
T	C	36589903	Forward	AGCTCGTGATCCTGTTGCTT	65
			Reverse	TATTCTCCTTGCTGGGCTTG	
T	C	40206250	Forward	CAGCTACCATGCTGTGAGGA	65
			Reverse	GAGATGACACGAAGGCAAGA	
T	C	115838003	Forward	GCCCTAAAGCCAATCCATTT	65
			Reverse	TAAATGCTGGACGCATCAAC	
A	G	127411174	Forward	GTTTCCCCTTTTCCTGATCC	65
			Reverse	CTCGGGTGGAGTCTCTGAAG	
C	T	127491880	Forward	GGGGGAGTACATGTGGTCTG	65
			Reverse	CATCTACGCATGCCTTTCAA	
A	G	127725116	Forward	CCAGAGCCGTTTCATTCCT	65
			Reverse	CAGATACAGCCCGAGCAAAT	

Ta = Primer annealing temperature.

**Supplementary Table S2:** List of antibodies used.

<b>Target</b>	<b>Manufacturer</b>	<b>Catalog number</b>	<b>Dilution</b>	<b>Species</b>
UCH-L1	Abcam	ab108986	1:100	Rabbit anti-human
TNP1	Abcam	ab73135	1:100	Rabbit anti-human
PCNA	Dako	M0879	1:100	Mouse anti-rat
VIM	Abcam	ab92547	1:200	Rabbit anti-human
AMH	Santa Cruz	sc-6886	1:400	Goat anti-human
OCLN	Proteintech	66378-1	1:150	Mouse anti-human
SMA	Abcam	ab7817	1:200	Mouse anti-human
CYP19	Bio-Rad	MCA20775	1:400	Mouse anti-human
Alexa Fluor 488	ThermoFisher	A11055	1:500	Donkey anti-goat
Alexa Fluor 594	ThermoFisher	A21203	1:500	Donkey anti-mouse
Alexa Fluor 594	ThermoFisher	A21207	1:500	Donkey anti-rabbit
Alexa Fluor 488	ThermoFisher	A21206	1:500	Donkey anti-rabbit