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Reproduction, Fertility and Development

Supplementary Material

Increased DNA strand breaks in spermatozoa of *Pxt1* knockout mice

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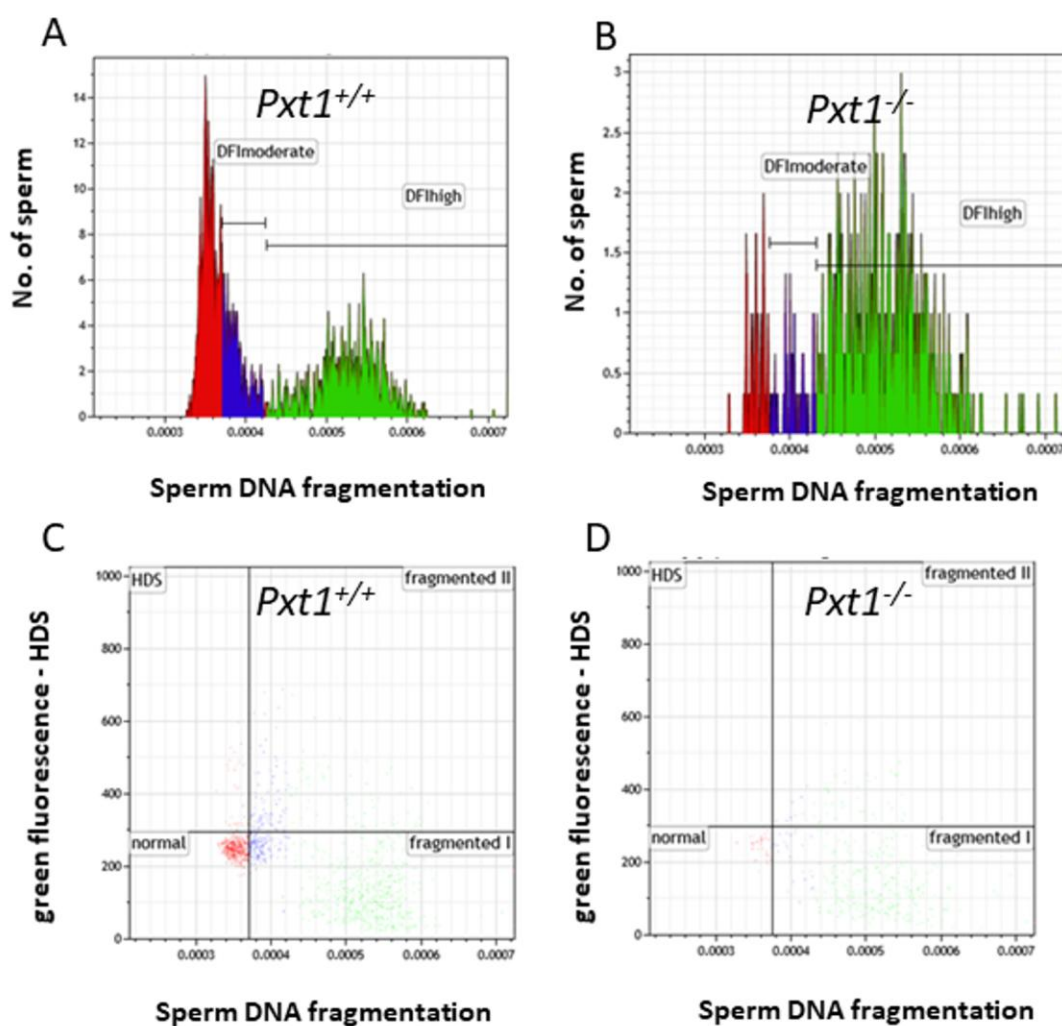
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Supplementary figure S1. Strategy of assignment of sperm to a particular DFI and HDS category.

Sperm of *Pxt1*^{+/+} and *Pxt1*^{-/-} mice were analyzed using SCSA and flow cytometry. The ‘Sperm DNA Fragmentation’ (DFI) parameter was calculated as a ratio of green and red fluorescence according to formula: $[\text{red}/(\text{green}+\text{red})]$. Assignment of sperm to a particular category: population in red – normal, population in blue – DFI moderate, population in green – DFI high. Representative graphs of results obtained for sperm of *Pxt1*^{+/+} (A) and *Pxt1*^{-/-} (B) mice are given. C) Classification of immature sperm of *Pxt1*^{+/+} and D) *Pxt1*^{-/-} mice with non-fragmented but poorly condensed chromatin (HDS, High DNA Stainability). The upper-left quadrant of the plot represents sperm classified as HDS (demonstrating strong green fluorescence).