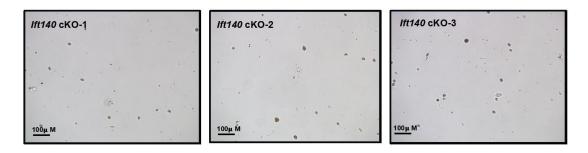
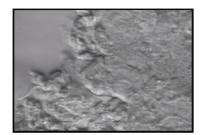


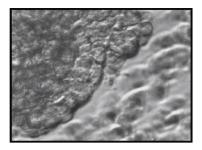
Supplemental movie 1. Representative movies of sperm from control mice.



Supplemental movie 2. Representative movies of sperm from Ift140 cKO mice.



Supplemental movie 3. Representative movies of ciliary beating in tracheal epithelial cell cultures from a control mouse.



Supplemental movie 4. Representative movies of ciliary beating in tracheal epithelial cell cultures from an Ift140 cKO mouse.

Ift140 forward: 5'-TCAGCCCTCTATGCCACTCT -3' Ift140 reverse: 5'-CTTCCCTATGCCTTCAGCAG-3'

FOXJ1-Cre forward: 5'-GCAAAACAGGTAGTTATTCGG-3', FOXJ1-Cre reverse: 5'-ATTTGGGCCAGCTAAACATGC-3'

Supplemental Table 1: Primers for genotyping the mice.