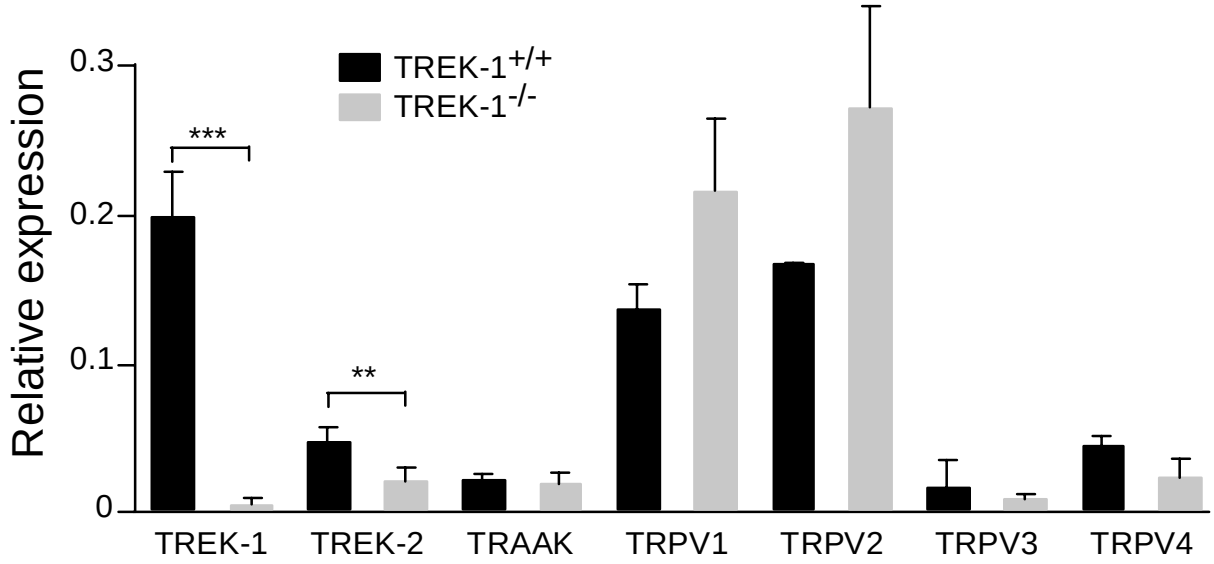

Legend:
Real-Time quantitative RT-PCR analysis. Relative expression of TREK-1, TREK-2, TRAAK, TRPV1, TRPV2, TRPV3 and TRPV4 channels in DRG from TREK-$1^{+/+}$ and TREK-$1^{-/-}$ mice. Data were normalized to Cyclophillin D expression level which was arbitrary fixed to 1. Bars indicate the standard deviation (n=4; P = 5 10^{-7}, P= 6 10^{-3}, all others P are > 0.1, t-test).

Material and methods:
Total RNAs from DRG of TREK-$1^{+/+}$ and TREK-$1^{-/-}$ mice were isolated with the NucleoSpin RNA II kit (Macherey Nagel). 2 μg of total RNAs were used for reverse transcription reaction carried out with the Superscript II reverse transcriptase (Invitrogen) according to the protocol of the supplier. Real-time PCR analysis (SYBR green mastermix plus, Eurogentec) was performed to estimate the level of expression of TREK-1, TREK-2, TRAAK, TRPV1, TRPV2, TRPV3 and TRPV4, the endogenous reference was the cyclophilin D (CycloD). Real-time PCR assays (triplicate for each target gene tested) were performed in 96-well plates on an ABI GenAmp 5700 apparatus. Data were analyzed using the comparative Ct method where the amount of target was normalized to the endogenous reference (User bulletin N°2 Applied Biosystems). Primers used for the different amplicons were as follows:
TREK-1 forward TTTTCCTGGTGGTCGTCCTC;
TREK-1 reverse GCTGCTCCAATGCCTTGAAC;
TREK-2 forward CCGGAATTACTCTCTGGATGAAGA;
TREK-2 reverse CATGGCTGTGCTGGAGTTGT;
TRAAK-Forward GGGCGCAAACCCAGAAA;
TRAAK- Reverse CCCAGGTTCCAAGCTGATGA
TRPV1-Forward CGTGCACTCCTCCCTTTATGA;
TRPV1-Reverse CGATCACCTCCAGCACTGAA;
TRPV2-Forward CGCTTCCTGCTGGTCTACCT;
TRPV2-Reverse CCTCCCGGCTCAAGCTTACT;
TRPV3-Forward GGCCCTGACACACAAAATGAG;
TRPV3-Reverse ATGCATGTGGCCCAGATGA;
TRPV4-Forward CAGCCGCACATCGTCAACTA;
TRPV4-Reverse TCGCCTCATGTCAGCTTTCTT;
CycloD forward GGCTCTTGAAATGGACCCTTC;
CycloD reverse CAGCCAATGCTTGATCATATTCTT.