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Title: KCa1.1 is potential marker for distinguishing Ah-type baroreceptor neurons in NTS and contributes to sex-specific presynaptic neurotransmission in baroreflex afferent pathway

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Highlights:

1. KCa1.1 mediates the afferent-specific neurotransmission in NTS in both male and female rats
2. Increased glutamate release is seen in C- not A-type afferents by blocking KCa1.1 in male rats
3. ~50% capsaicin-insensitive afferents are myelinated Ah-type BRNs in NTS in female rats
4. C-like KCa1.1-mediated glutamate release can also be seen in Ah-type BRNs in female TNS
5. KCa1.1 Functional expression is a potential maker for identifying Ah- from A-type afferent in NTS

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