CONCLUSIONS

Here, we report for the first time that Cx43, Cx45 and CALHM1 are ATP release channels in response to stretch and [Ca\textsuperscript{2+}], in the human bladder urothelial cells, suggesting that these channels may play an important role in the initiation of ATP signaling in response to bladder distension during the storage phase of micturition reflex. Furthermore, modulation of extracellular Ca\textsuperscript{2+} may also regulate ATP release in the bladder through Cx43-sensitive Cx43 and Cx45 hemichannels and CALHM1.

REFERENCES