The effect of the outermost basic residues in the S4 segments of the $\text{Ca}_v3.1$ T-type calcium channel on gating

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Due to mistake by copying data x-axis for one data set was shifted in the Fig. 3 a and b. Please find corrected Figure below.

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Fig. 3 Effects of neutralization of S4 charges on the activation and inactivation time constants. Individual current traces measured during the I–V protocol were fitted by the Hodgkin-Huxley equation (3). Resulting time constants of activation and inactivation are shown in individual panels. **a** The activation time constants for WTG channel and single channel mutants IS4, IIS4, IIIS4 and IVS4. **b** The time constants of activation for WTG channel and for double mutants I+IIS4, II+IIIS4, III+IVS4 and I+IVS4. **c** The inactivation time constants for WTG channel and single mutants IS4, IIS4, IIIS4 and IVS4. **d** The inactivation time constants for WTG channel and for double mutants I+IIS4, II+IIIS4, III+IVS4 and I+IVS4. **e** Examples of current traces recorded from WTG channel during depolarising pulses to -45 , -35 , -25 , -15 , -5 and $+5$ mV and from IIS4 and II+IIIS4 mutants during depolarising pulses to -60 , -50 , -40 , -30 , -20 and -10 mV. Gray lines represent original current records and black lines their fits by the Hodgkin-Huxley equation (3)