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INTERACTION OF MEMBRANNE TRPV1 AND TRPA1 CHANNELS IN DRG NEURONS OF RATS

TRPA1 and TRPV1 channels are nonselective Ca2+ channels and regulate intracellular calcium levels. Deviation from the normal level of calcium in the cell can lead to a number of pathologies in the nervous system, including neuropathy and pain syndromes. The purpose of this work was the experimental studies of interaction of TRPA1 and TRPV1 channels, their sensitivity to selective agonists - allyl isothiocyanate (AITC) and capsaicin (Caps), and the interaction of channels with each other, by microfluorescent measurement. Our experiments have shown that the interaction between TRPA1 and TRPV1 channels was proved, indicating that the activation of the TRPA1 channel results in the resensitization of the TRPV1 channel sensitivity to the agonists.

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