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Charakterystyka kanałów potasowych w tonoplaście komórek roślinnych – Characteristic of the potassium ion channels in the tonoplast of plant cells.

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Three types of potassium-transporting ion channels in the tonoplast of plant cells are characterized: slow vacuolar channels, SV, fast vacuolar channels, FV, and K-selective vacuolar channels, VK. Basic parameters, such as selectivity, current density, calcium dependence, and ways of gating are presented. Special attention is paid to participation of these channels in regulation of physiological processes. Role of ion channels in regulation of stomata aperture, calcium induced calcium release, and action potentials is discussed