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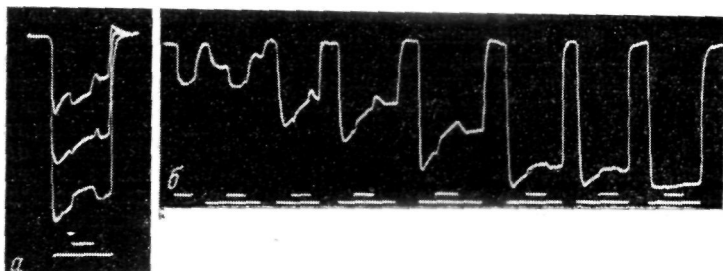
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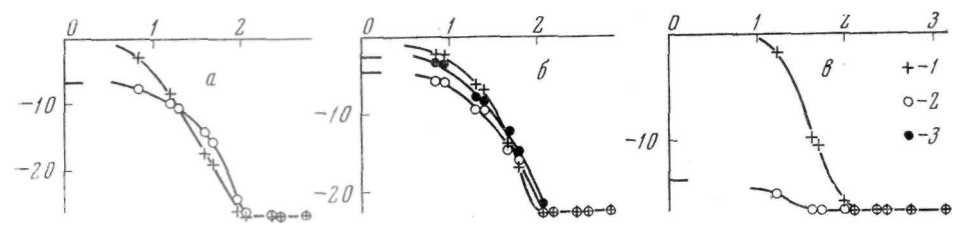
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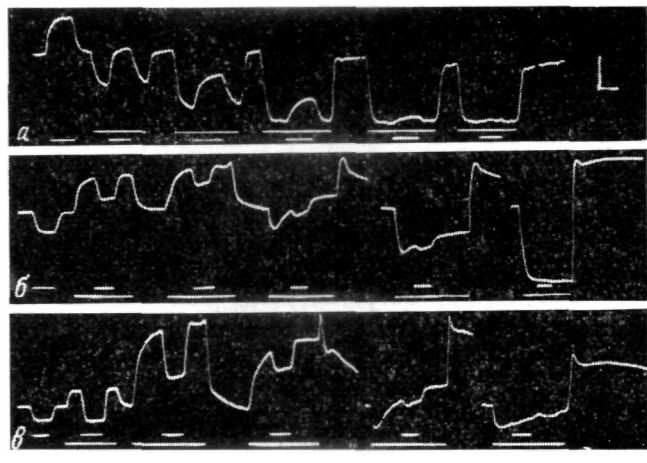
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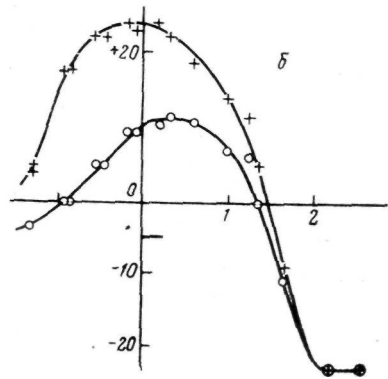
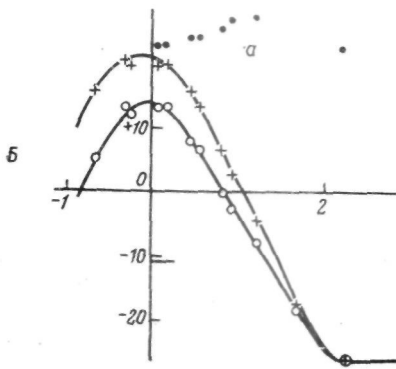
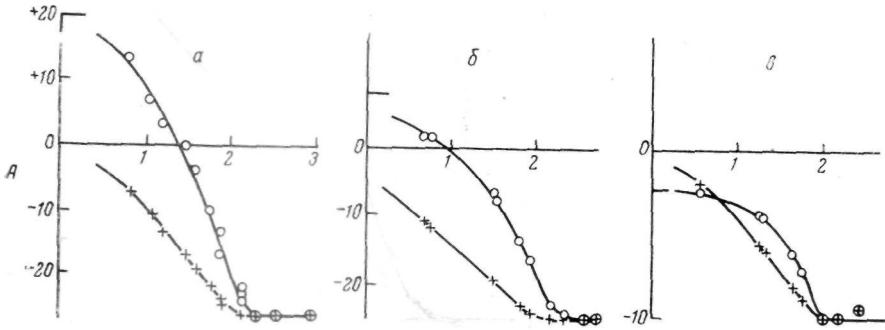
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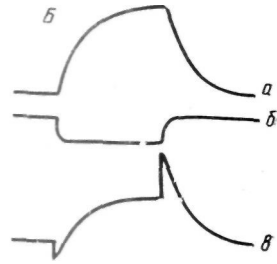
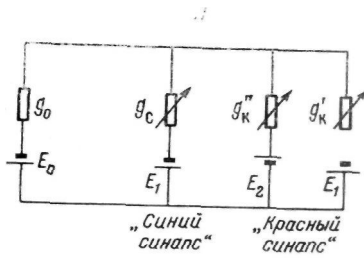
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27.VI.1968

SATURATION OF S-POTENTIALS OF FISH RETINA. BICOMPONENT REACTIONS

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Horizontal cells of «chromatic» type are distinguished by the existence of depolarization component of the reaction manifesting itself under definite stimulation conditions. The interaction of input signals in the cells of this type in the retina of several species of freshwater fishes was studied. The applied technique of selective stimulation of inputs enabled the study of the dependence of cell reaction on excitation level of each of its two inputs. The interaction of input signals on the level of horizontal cells was also considered. In perch *L*-cells and *RG*-cells of all the fishes studied there was discovered complete saturation of hyperpolarization reaction, when in case of limiting excitation of one input the additional excitation of another one does not cause the reaction of the cell. The hypothesis of ionic mechanism of the generation of *S*-potentials (suggested before for the cells of the *L*-type) is developed for the case of *S*-potentials of «chromatic» type.