Vascular smooth muscle - metabolic, ionic, and contractile mechanisms

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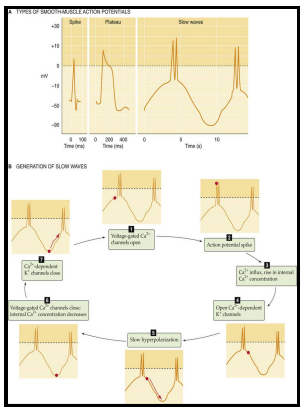

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Electromechanical coupling in feline basilar artery in response to serotonin

Proc Natl Acad Sci USA 56 : 974 — 978 , 1966 Bunn HF, Jandl JH: Exchange of heme among hemoglobin molecules. The sodium-calcium exchange mechanism, relatively unimportant in smooth muscle, is of much greater consequence in cardiac muscle,- see Chapter 10. .

Vascular Smooth Muscle

The Contractile Machinery of Skeletal Muscle Sarcomeres are Repeating Units of the Myofibrils Bands and Filaments Thin Filament Regulation of Muscle Contraction The Scaffolding Proteins Give Stability and Elasticity to the Sarcomere The Z-Line is Involved in Signaling Faults in the Cross-Striation Alignment Z-Line Defects in Pathology Acknowledgments REFERENCES Chapter 59.

Vascular smooth muscle contraction in hypertension

The myogenic response is the intrinsic property of vascular smooth muscle to react to changes in mechanical input or intravascular pressure. Further, phosphorylation by PKC of an undetermined residue in the N-terminal portion of MYPT1 reduced its affinity for PP1c and hence the activity of MLCP. Similar observations were made in rat muscle strips stimulated with carbachol.

CV Physiology

Most of the studies have been focused on the uterus during gestation but these same mechanisms may be equally applicable in the non-pregnant state. However, when the muscle strips were pre-exposed to KCl, then treated with a higher dose of OT 100 nM that is more likely to produce a tetanic contraction, there was a significant suppressive effect of the ROK inhibitor. The ionic currents that maintain this potential and the changes that occur in response to pharmacologic and signaling molecules constitute the complex electrophysiologic network that controls the contractile activity of the uterus.

The effect of hemoglobin and its metabolites on energy metabolism in cultured cerebrovascular smooth

Microcirculation Introduction Architecture of the Microcirculation Arterioles and Arteriolar Smooth Muscle Capillaries and Pericytes Venules Summary and Conclusions Acknowledgments REFERENCES Chapter 90. Contractile activity in the non-pregnant uterus appears to be fundamentally different than in the pregnant organ.

CV Physiology

Am J Physiol 229: 329—333, 1975 Knull HR , Bose D : Reversibility of mechanical and biochemical changes in smooth muscle due to anoxia and substrate depletion.

Vascular smooth muscle : metabolic, ionic, and contractile mechanisms

RhoA was implicated as a mediator in the process of CS by experiments demonstrating that this phenomenon was diminished using a specific inhibitor of rhoA and that the molecular mechanism downstream of rhoA involved MLCP inhibition ;.

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