

Cardiac Gap Junctions Physiology Regulation Pathophysiology And Pharmacology

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Physiology of Cardiovascular Gap Junctions

oof Dhein S (ed): Cardiac Gap Junctions Adv Cardiol Basel, Karger, 2006, vol 42, pp 18-40 Physiology of Cardiovascular Gap Junctions Toon AB van Veen, Harold VM van Rijen, Habo J Jongsma

Cellular Physiology of Skeletal, Cardiac, and Smooth Muscle

232 9 I Cellular Physiology of Skeletal, Cardiac, and Smooth Muscle I,11 this type of smooth muscle, gap junctions pennit electri- cal communication between neighboring cells This com-munication allows coordinated contraction of many cells

Biochemistry and physiology of cardiac muscle

Cardiomyocytes account for most of the cardiac mass and volume but only approximately 30% of cardiac cell numbers They are connected to each other via specialized gap junctions, which provide electrical coupling and allow an action potential to spread between adjacent cardiomyocytes by the intercellular movement of ions This is vital for

CARDIOVASCULAR ANATOMY AND PHYSIOLOGY

Cardiac cycle: correlation of the mechanical events of the cardiac cycle with the electrical and ionic events 9 Describe the physiology of cardiac muscle and the mechanism of excitation contraction coupling 10 Determinants and control of cardiac output including implications for clinical practice 11 Frank Starling mechanism 11 Cardiac output 12

PHSL3211 Cardiovascular Physiology and Pathophysiology

4 Ion channels in regulation of vascular tone 5 Ion channels in regulation of cardiac function 6 Mechanotransduction in vascular cells 7 Regulation of lymphatic (vaso) motion 8 Physiology of “train high – perform low” training regimens 9 Impact of altitude on cardiovascular physiology 10 Transgenic models in the study of the

Cardiovascular Physiology

cardiac muscle fibers (=cardiocytes) relatively short, thick branched cells, 50-100 μm long striated myofibrils are highly ordered usually 1 nucleus per cell rather than tapering cells are bluntly attached to each other by gap junctions = intercalated discs myocardium behaves as single unit

Biochemistry and physiology of cardiac muscle

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Functional Anatomy of the Heart Cardiovascular Physiology

• Functional Anatomy of the Heart • Myocardial Physiology • Cardiac Cycle • Cardiac Output Controls & Blood Pressure Cardiovascular System Function • Functional components of the cardiovascular system: - Heart - Blood Vessels - Blood • General functions these provide - Transportation • Everything transported by the blood - Regulation • Of the cardiovascular system

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Cardiac Gap Junctions Physiology, Regulation, Pathophysiology and Pharmacology S Dhein, Cologne Cologne

Physiology of the cardiovascular system

Physiology of the cardiovascular system Part 1 Physiological properties of the cardiac muscle - automacy and rhythmicity, conductivity, excitability, contractility The cardiac cycle Heart sounds Arterial pulse Regulation of the cardiovascular system Practical tasks • Physiological properties of the cardiac muscle • Auscultation of the

Regulation of gap junction conductance by calcineurin ...

Abstract Cardiac arrhythmias are associated with raised intracellular $[\text{Ca}^{2+}]$ and slowed action potential conduction caused by reduced gap junction (GJ) electrical conductance (Gj) Ventricular GJs are composed of connexin proteins (Cx43), with Gj determined by Cx43 phosphorylation status Connexin phosphorylation is an interplay between

Gap Junctions, Homeostasis, and Injury

JOURNAL OF CELLULAR PHYSIOLOGY 191:269-282 (2002) Gap Junctions, Homeostasis, and Injury ANTONIO DE MAIO,* VIRGINIA L VEGA, AND

JORGE E CONTRERAS Division of Pediatric Surgery and Department of Physiology, Johns Hopkins University School of Medicine, Baltimore, Maryland Gap junctions (Gj) play an important role in the communication between

Select Septate Junction Proteins Direct ROS-Mediated ...

Cell Reports Article Select Septate Junction Proteins Direct ROS-Mediated Paracrine Regulation of Drosophila Cardiac Function Hui-Ying Lim,1,3,* Hong Bao,1 Ying Liu,1 and Weidong Wang2 1Department of Physiology, University of Oklahoma Health Science Center, Oklahoma City, OK, USA 2Department of Medicine, Section of Endocrinology, University of Oklahoma Health Sciences Center, ...

Conduction System of the Heart 4 - Med Study Group

Point out the regulation of the conduction system potential by Autonomic Nerves Resource: Guyton's Textbook of Medical Physiology 12th edition 2011 3 Structures of the conduction system 4 5 Conducting System of Heart 6 Heart Physiology: Sequence of Excitation 7 Autonomic Innervation of the Heart Intrinsic Cardiac Conduction System Approximately 1% of cardiac muscle cells are

CARDIOVASCULAR PHYSIOLOGY LECTURE 1

The cardiac AP conducts from cell to cell via gap junctions The electrical influence of one cardiac cell on another depends on the voltage difference between the cells and on the resistance of the gap junction connecting them and permits electrical current to flow - Ohm's law

PHSL3211 Cardiovascular Physiology and Pathophysiology

The course is divided into three units, over which the student will be taken from the physiology of cardiac and vascular cells, examine the function and regulation of these cells within vascular tissues and organs, and finally learn about the latest theories and techniques leading research into cardiovascular pathophysiology and disease As the

Myocardial Gap Junctions: Targets for Novel Approaches in ...

cardiac cell to another are specialized connections termed gap junctions (nexuses) There are two types, ie end-to-end and side-to-side junctions (Figs 1A, 1B) End-to-end type is a part of intercalated disc and it predominates in the cardiac muscle Lateral gap junctions are much less abundant and occur more often in atrial than ventricular

Gap junctional shuttling of miRNA — A novel pathway of ...

Review Gap junctional shuttling of miRNA — A novel pathway of intercellular gene regulation and its prospects in clinical application Heiko Lemcke*, Gustav Steinhoff, Robert David Department of Cardiac Surgery, Reference and Translation Center for Cardiac Stem Cell Therapy (RTC), University of Rostock, Schillingallee 69, 18057 Rostock, Germany