

Currents in the heart

Description of current	Ions	Symbol	Nernst Potential	Tissue	Blockers
sodium channel	Na	I_{Na}	+ 60 mV	A,V, Purkinje fibers	TTX, "local anesthetics"
L-type calcium channel	Ca	$I_{Ca,L}$	+ 120 mV	all	verapamil, nifedipine
potassium (rapid) channel	K	$I_{K,R}$	-100 mV	all	Cs ⁺ , various
Potassium (slow) channel	K	$I_{K,S}$	-100 mV	all	Cs ⁺ , various
Potassium (transient outward) channel	K	$I_{K,TO}$	-100 mV	all	Cs ⁺ , various, 4-AP
pacemaker or "funny" channel	K and Na	I_F	- 35 mV	SA, AV, PF	Cs ⁺

repolarizing potassium currents = " I_K "



Currents Of Heart

Susanna Cocroft



Currents Of Heart:

Physiology of the Heart Arnold M. Katz, 2006 Incorporating the latest molecular biology research this title explores the clinical applications of such knowledge covering the physiological biophysical basis of cardiac function Currents of the Heart Family Christian Stores, Incorporated, 1999 **Diseases of the Heart and Circulation in Infancy and Adolescence** John Marie Keating, W. A. Edwards, 1889 **Cardiovascular Pharmacology: Heart and circulation**, 2010-11-26 Cardiovascular disease remains a major cause of death and disability in developed countries and increasingly so in the developing world Presented in this volume of *Advances in Pharmacology* are some of the most promising possibilities for treating large numbers of individuals afflicted with these conditions Contains up to date reviews of the most important emerging cardiovascular therapies written by world leaders in the field **Heart Rate Slowing by If Current Inhibition** A. John Camm, Micha? Tendra, 2006-01-01 This book unfolds the history of the discovery of the transmembrane channel which is responsible for the funny or If current the primary modulator of heart rate Inhibition of this current leads to slowing of the heart rate which is an important component of the successful management of angina pectoris Recently Ivabradine a specific and selective inhibitor of the If current has been developed as an antianginal agent which has been shown to be at least as effective as both beta blockers and calcium channel blockers for the treatment of angina The development efficacy and complications of this therapy are discussed in detail in this book Furthermore the clinical benefits from heart rate reduction in patients with coronary artery disease and heart failure and in patients after myocardial infarction are examined Whether a lower heart rate per se will prolong life is not yet known but it may offer a new and important life saving strategy The current data presented in this volume will be appreciated by cardiologists and general physicians interested in the modern management of angina pectoris and by electrophysiologists and physiologists who would like to understand the importance of heart rate and its regulation **The Circulation, heart, lungs** Susanna Cocroft, 1911 *Modern Aspects of the Circulation in Health and Disease* Carl John Wiggers, 1915 Proceedings of the Section of Sciences Koninklijke Nederlandse Akademie van Wetenschappen. Afdeling Natuurkunde, Koninklijke Akademie van Wetenschappen te Amsterdam. Afdeling Natuurkunde, 1918 **A Practical Treatise on the Diseases of the Heart and Great Vessels** Walter Hayle Walshe, 1873 **Diseases of the heart** John Cowan, 1922 **Text-book of Human Physiology** Leonard Landois, 1905 A Manual of percussion and auscultation Austin Flint, 1876 **The Mechanism and Graphic Registration of the Heart Beat** Sir Thomas Lewis, 1920 This is the second edition of *The mechanism and graphic registration of the heart beat* 1911 the third edition 1925 This book is an exhaustive treatise on the subject and a valuable bibliographical source Lewis was a pioneer in the application to clinical medicine of the electrocardiographic method for examination of the heart The Work of Electricity in Nature Harry B. Philbrook, 1886 Messenger of the Sacred Heart of Jesus, 1904 **The Medical World**, 1916 *Transactions of the International Medical Congress* International Medical Congress, ltd, 1887

Transactions of the International medical congress. Ninth session John Brown Hamilton,1887 **Medical Electricity,**
Röntgen Rays and Radium Sinclair Tousey,1916 Diseases of Occupation and Vocational Hygiene George Martin
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web objective to apply stoichiometric principles to calculate the appropriate chemical equation for the reaction between iron metal and a solution of copper i sulfate introduction in the form of finely split powder copper metal is produced as a byproduct of the process as iron ions the ion meta dissolves

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper s mass into account add these to the beaker 3 measure 50 0 ml of water in the cylinder and add it to the beaker 4

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web stoichiometry lab the reaction of iron with copper ii sulfate the study of stoichiometry deals with the calculation of quantities in a chemical reaction how much product will be produced how much reactant do you need to make that much product

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web description great lab for use during stoichiometry unit in chemistry reinforces ideas of mole ratios and stoichiometry calculations by measuring the mass of iron that reacts and the mass of copper metal produced students can calculate the ratio of moles of reactant to moles of product this experimental mole ratio from lab can be compared

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web in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces metallic copper which is seen precipitating as a finely divided red powder

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web in this lab we will use experimental evidence and the principles of stoichiometry to determine which ion is formed in a

single replacement reaction between iron and copper ii sulfate pre lab assignment in preparation for the lab activity we will investigate another single replacement reaction between copper and silver nitrate

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web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web stoichiometric principles can be used to determine the chemical equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction the iron ions dissolve in the copper ii sulfate solution to produce copper ii ions

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web under the finalize of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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