Cardiac Electrophysiology Methods And Models

Expression;76 1.5.2.3.6;3.3.6 Changes in Ion Channel Expression by Cardiac Remodeling;77 1.5.2.4;3.4 Gap Junctions;78 1.5.2.4.1;3.4.1 Gap Junction Distribution in Cardiac Tissue;79 1.5.2.4.2;3.4.2 Redundancy of Connexins;79 1.5.2.4.3;3.4.3 Gap Junction Distribution in Cardiomyocytes;80 1.5.2.4.4;3.4.4 Homomeric and Heteromeric Expression;81 1.5.2.4.5;3.4.5 Remodeling of Connexin Expression;81 1.5.2.4.6;3.4.6 Transmural Differences in Connexins;82 1.5.2.5;3.5 Conclusion;83 1.5.2.6;References;83 1.5.3;Chapter 4: Anatomy and Physiology of the Cardiac Conduction System;85 1.5.3.1;4.1 Introduction;85 1.5.3.2;4.2 Overview of Cardiac Conduction;86 1.5.3.3;4.3 Cardiac Rate Control;90 1.5.3.4;4.4 Cardiac Action Potentials;92 1.5.3.5;4.5 Gap Junctions (Cell-to-Cell Conduction);93 1.5.3.6;4.6 The Atrioventricular Node and Bundle of His: Specific Features;96 1.5.3.7;4.7 Recording the Spread of Excitation Through the Heart;97 1.5.3.8;4.8 Future Research on the Heart s Conduction System;99 1.5.3.9;4.9 Summary;99 1.5.3.10;References;99 1.5.4;Chapter 5: The Electrocardiogram and Clinical Cardiac Electrophysiology;102 1.5.4.1;5.1 Introduction;103 1.5.4.2;5.2 The Specialized Cardiac Conduction System;103 1.5.4.3;5.3 Electrocardiogram;104 1.5.4.3.1;5.3.1 ECG Leads;104 1.5.4.3.2;5.3.2 Waves and Intervals;105 1.5.4.3.2.1;5.3.2.1 P-wave;105 1.5.4.3.2.2;5.3.2.2 PR Interval;106 1.5.4.3.2.3;5.3.2.3 QRS Complex;106 1.5.4.3.2.4;5.3.2.4 ST Segment;107 1.5.4.3.2. EAN/ISBN : 9781441966582 Publisher(s): Springer, Berlin, Springer Science & Business Media Discussed keywords: Elektrophysiologie, Kardiologie Format: ePub/PDF Author(s): Sigg, Daniel C. - Iaizzo, Paul A. - Xiao, Yong-Fu