

Frog Heart

In this experiment, you will explore basic principles of cardiac muscle physiology by recording force of contraction and the electrocardiogram (ECG). You will examine the effects of temperature, stretch, drugs on the heart, and conduction blockade, on the frog heart *in situ*.

Written by staff of ADInstruments, Exercise 5 written by Dr. Valerie G. Kalter, Department of Biology and Health Sciences, Wilkes University, Wilkes-Barre, Pennsylvania, USA.

Background

Studies of isolated organs were pioneered in the late 19th century when scientists such as Sidney Ringer (1835-1916) developed perfusion solutions (such as Ringer's solution) based upon the composition of the extracellular fluid that could sustain an organ isolated from a pithed animal. A classic example of an isolated organ preparation is the frog heart. It will continue to beat *in situ* for several hours, during which basic cardiac functions can be investigated.

The heart is made up of cardiac muscle. Cardiac muscle is similar to skeletal (striated) muscle, but exhibits some special properties, the most important of which is rhythmicity. All cardiac muscle cells have the inherent ability to depolarize and repolarize. These action potentials spread to adjacent cells via gap junctions that allow ions to move; thus current flows from cell to cell. In this way the atria and the ventricles behave as electrical syncytia. These spontaneous cycles of depolarization and repolarization occur in rhythmic fashion, giving rise to an intrinsic, regular heartbeat. In the intact, normal heart, the heart rate is determined by the group of cells – the pacemaker cells – that undergo the fastest depolarization/repolarization cycle. In the mammalian heart, the pacemaker cells are located in the sinoatrial (SA) node. In the frog heart, the sinus venosus is the functional equivalent of the mammalian SA node (Figure 1).

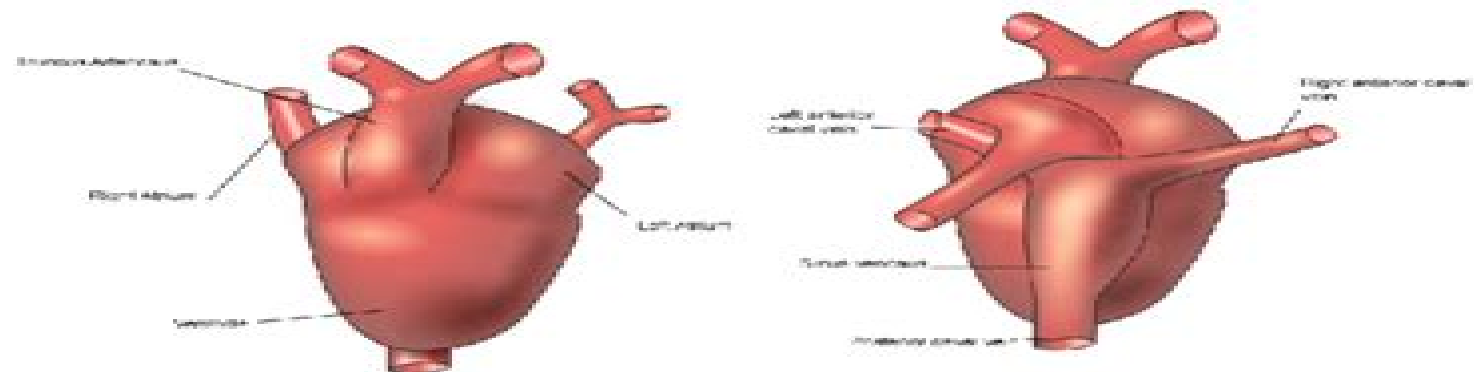


Figure 1. Ventral and Dorsal Views of the Frog Heart

As well as cell-to-cell current flow, there is a specialized conduction pathway. This provides the only electrical connection between the atria and ventricles – the AV node. Although there are pacemaker cells here, conduction is much slower than it is through either atrial or ventricular muscle. This allows the depolarization of the atria (and

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Laboratory Manual of Physiology Frederick Carl Busch, 1905 American Journal of Physiology, 1918 Vols for 1898 1941 1948 56 include the Society's proceedings primarily abstracts of papers presented at the 10th 53rd annual meetings and the 1948 56 fall meetings **The Annual Report of the President of Harvard University to the Overseers on the State of the University for the Academic Year ...** Harvard University, 1896 *Report of the President of Harvard College and Reports of Departments* Harvard University, 1896 **Laboratory Manual to Accompany Human Anatomy and Physiology** John W. Hole, 1984 **Annual Reports of the President and Treasurer of Harvard College** Harvard University, 1896 *Concepts of Human Anatomy and Physiology* Stuart Ira Fox, 1989 **Annual Report of President for the Year ...** Cornell University. President, 1925 **Annual Report (reprinted Papers) of the Investigations Carried Out Under the Supervision of the Therapeutic Research Committee of the Council on Pharmacy and Chemistry of the American Medical Association ...** Council on Pharmacy and Chemistry (American Medical Association), 1919
Annual Report (reprinted Papers) of the Investigations Carried Out Under the Supervision of the Therapeutic Research Committee of the Council on Pharmacy and Chemistry of the American Medical Association Council on Pharmacy and Chemistry (American Medical Association). Therapeutic Research Committee, 1915 **The Lancet**, 1876 **A Laboratory Guide in Pharmacology** Torald Hermann Sollmann, 1917 **Laboratory notes for students of physiology and of pharmacology in the Medico-Chirurgical College of Philadelphia** Isaac Ott, 1911 *Ladies in the Laboratory IV* Mary R. S. Creese, 2015-03-12 The first volume of *Ladies in the Laboratory* provided a systematic survey and comparison of the work of nineteenth century American and British women in scientific research Companion volumes focused on women scientists from Western Europe and the former British colonial territories of South Africa Australia New Zealand and Canada In *Ladies in the Laboratory IV* Mary R S Creese expands her scope to include the contributions of nineteenth century women of Imperial Russia Many of these women believed that science was the key to social progress and the great advances in scientific research work in which Russians had leading roles made scientific training especially attractive Featuring biographical sketches of more than 120 women this volume covers individuals whose scientific research encompassed medicine chemistry zoology botany and paleontology Organized into chapters by field the entries provide details about the personal backgrounds as well as professional achievements of these remarkable women A well organized blend of individual life stories and quantitative information this volume is for everyone interested in nineteenth century science The stories of these women make for fascinating reading and serve as a valuable source for those who want to learn more about the history of women in science and medicine as well as nineteenth century Russian history *Calendar of the University of Manitoba ...* -. University of Manitoba, 1916 **Nature** Sir Norman Lockyer, 1907 **Calendar for the Session 1887/88** University College, Liverpool, 1887 *Human Anatomy and Physiology Laboratory Manual* Elaine Nicpon Marieb, 1985 **The Boston**

Medical and Surgical Journal ,1884

Boston Medical and Surgical Journal ,1896

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