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[Signal Transduction in Cardiovascular System in Health and Disease](#). Madhu B. Anand- Srivastava and Ashok K. Srivastava. This book has addressed the contributions of several key signal transduction pathways which are central to our understanding of cardiovascular physiology and pathophysiology. Aberrations in these signaling events have been suggested to be involved in a host of cardiovascular pathologies, such as cardiac arrhythmias, congenital heart failure and hypertension.

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There are several major signal transduction mechanisms found in cells of the cardiovascular system, the most important being the G-protein and nitric oxide-cyclic GMP pathways. Described below are the G-protein-coupled pathways found in the heart. Signal transduction mechanisms regulating vascular smooth muscle contraction and relaxation are found elsewhere ([Click Here](#)).

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There are several major signal transduction mechanisms found in cells of the cardiovascular system, the most important being the G-protein-mediated changes in cyclic AMP and inositol triphosphate (IP₃), and cyclic GMP pathways. Click on the following links to read detailed descriptions of these mechanisms in cardiac cells and vascular smooth muscle cells:

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Not only is the activation of β -ARs and their associated signaling transduction critical in understanding the physiology of the cardiovascular system, but it has been recognized over the past decades that β -AR activations also play key roles in cardiac disease processes such as heart failure . For example, an apparent paradox exists, namely, that β -adrenergic blockers (β -receptor antagonists) are beneficial in patients with heart failure; this will be discussed in more detail later in ...

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The cardiovascular system is a complicated, ordered system in which signal transduction plays a key regulatory role in this system. There are a series of specific receptors and complex intracellular mechanisms in the cells of the heart and blood vessel walls that allow cells to respond appropriately to external stimuli.

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There are several signal transduction mechanisms that modulate intracellular calcium concentration and therefore the state of vascular tone. Two different mechanisms will be described here: 1) G-protein-coupled pathway, and 2) the nitric oxide-cGMP pathway. G-Protein Coupled Signal Transduction

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The cardiovascular system is a highly complex, well organised system in which signal transduction plays critical physiological and pathophysiological roles. The cellular elements of the heart and vascular wall are equipped with an array of specific receptors and with complex intracellular machinery that facilitates and drives appropriate responses to extracellular stimuli.

[Cell signalling in the cardiovascular system: an overview ...](#)

The cardiovascular system is a complicated, ordered system in which signal transduction plays a key regulatory role in this system. There are a series of specific receptors and complex intracellular mechanisms in the cells of the heart and blood vessel walls that allow cells to respond appropriately to external stimuli.

[Cardiovascular and Signal Transduction in London, England](#)

Signal transduction defects as a cause for reduced growth factor responsiveness Growth factor action is physiologically followed by specific molecular and cellular responses. If growth factor activation is not followed by a proper cellular response or if it does not properly activate downstream signalling cascades, we can call this situation a " signal transduction defect " .

[Growth factor signal transduction defects in the ...](#)

The signal transduction cascade of ischemic preconditioning can be divided into triggers and mediators. Triggers are important during the episode of preconditioning ischemia and reperfusion, and blockade of a trigger ' s action during this preconditioning phase will abolish its cardioprotective effects.

[Signal transduction of ischemic preconditioning ...](#)

Several signal transduction systems, especially steroid receptors, utilise an interaction with Hsp90 as an essential component of the signalling pathway and a number of signalling molecules such as G protein β subunits and protein kinases, including Src and Raf components of the mitogen-activated protein kinase (MAP) cascade, are also bound to Hsp90 (for review see Ref.).

[Signal transduction of eNOS activation | Cardiovascular ...](#)

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Signal transduction in early heart development (I): cardiogenic induction and heart tube formation. Wagner M(1), Siddiqui MA. Author information: (1)Department of Anatomy and Cell Biology, State University of New York Downstate Medical Center, Brooklyn, NY 11203, USA. michael.wagner@downstate.edu

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