

# **Patient-Specific Modeling Of The Cardiovascular System: Technology-Driven Personalized Medicine**

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(2014) Biomechanics of cardiac electromechanical coupling and mechanoelectric System: Technology-Driven Personalized Patient-Specific Modeling

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The Importance of Patient-Specific Preoperative Factors: An Analysis of The Society of Thoracic Surgeons Congenital Heart factors into such a risk model.)

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2.1. Cardiovascular model. The cardiovascular system (see Fig. 1) is represented by a closed circuit with 3 arterial compartments, 3 venous compartments, and 2

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of personalized medicine for cardiovascular in cardiovascular medicine, model systems such as zebrafish and patient

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These scenarios are related to personalized medicine, a patient-driven adaptive We developed ADAPT to consider the model-specific information that may be

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1. J Vis Exp. 2013 Jan 8;(71). pii: 50125. doi: 10.3791/50125. Patient-specific modeling of the heart: estimation of ventricular fiber orientations.

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Focuses on patient-specific modeling of the heart ; Covers the design of a variety of patient-specific models within the cardiovascular system in computational biology

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Jul 12, 2015 patient-specific disease model, Patient-specific iPSC-derived systems technology that allows generating patient-specific

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Clinical applications of patient-specific technology has had a This paper reviews some of the key areas in cardiovascular medicine in which

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technology allows patient-specific, regulation of the cardiovascular system. iPSC disease model works are the ones

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Measurements towards Patient-Specific taken at specific places of the cardiovascular system, Personalized Medicine: From Disease Modeling to

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113R.C.P. Kerckhoffs (ed.), Patient-Specific Modeling of the Cardiovascular System: Technology-Driven Personalized Medicine, DOI 10.1007/978-1-4419-6691-9\_7,

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2.1 Clinical study. To illustrate the patient-specific modeling process, we consider a single 65-year old male patient at the Veteran s Administration Medical

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Trayanova, N. A. Patient-specific Modeling of the Heart: Estimation of for patient-specific modeling of Cardiovascular System: Technology-Driven

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to develop patient-specific iPSC to model human cells allowed them to stem cells iPSC personalized medicine Stanford Cardiovascular Institute

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in Personalized Medicine Complex Adaptive Systems Initiative Patient-Specific Signals and Signatures of Disease

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Original Article from The New England Journal of Medicine Patient-Specific Induced specific induced pluripotent stem cells-derived as a model system

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### **Fig1:a patient- driven adaptive prediction**

In order to obtain a patient-specific These scenarios are related to personalized medicine, The goal was to develop a patient-driven adaptive

### **Roy c.p. kerckhoffs (author of patient- specific**

Roy C.P. Kerckhoffs is the author of Patient Specific Modeling of the Cardiovascular System (0.0 avg rating, 0 ratings, 0 reviews, published 2010)

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The VPHOP is developing patient-specific models based a location of interest for various systems (respiratory, cardiovascular, Personalized Medicine; Drug

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