

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

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

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

## **Researchers develop patient- specific heart cells**

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

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

## **Roykerckhoffs - cardiac mechanics research group**

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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

## **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

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## **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)

## **Patient- specific modeling of cardiovascular and**

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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Patient specific modeling of the the results of a simulation with a variable elastance model of the heart initialized with patient data coupled with a

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care that inherently factors in patient-specific model of drug delivery allows doctors to Personalized Medicine; Drug Delivery;

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

**Patient- specific modeling of the heart:**

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.

**A patient- driven adaptive prediction technique to**

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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**Publications - cardiac mechanics research group**

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

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

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