



# Curriculum Vitae

P.A.F.M. (Pieter) Doevendans, MD, PhD, FESC

## PERSONAL DETAILS

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<http://www.umcutrecht.nl/en/Research/Researchers/Doevendans-Pieter-A-PAFM>  
<http://rmutrecht.org/principal-investigators/>

<b>Date of Birth</b>	07/24/59	<b>Place of Birth</b>	Goirle
<b>Citizenship</b>	The Netherlands	<b>BIG reg.nr</b>	19020660301

### EDUCATION

<u>School or College</u>	<u>Field of study</u>	<u>Degree Earned</u>	<u>Year</u>
University Leiden	Medicine	Doctoral	1983
University Leiden	Medicine	MD	1985
University Maastricht	Cardiology	Cardiologist	1997
University Maastricht	Molecular Cardiology	PhD	1997
University Maastricht	Interventional Cardiology		1999

### THESIS

Cardiac specific gene expression of the regulatory myosin light chains (ISBN 90 5278 2350) (1997)

## JOB POSITIONS AND HONORS

### CURRENT POSITION

Full professor in Cardiology, UMC Utrecht	May 2004
Chairman department of Cardiology, UMC Utrecht	2005-2019
Co Director, Netherlands Heart Institute	January 2016
Member Labour council UMC Utrecht	April 2018
Director Animal facility UU	2020

### FORMER POSITION

Chairman Board of Advice UMC Utrecht Sports Medicine	November 2012-2018
Chairman Steering committee Planning and Capacity, UMC Utrecht	2013-2018
Member Steering committee Referrals and Transmural collaboration	2014
Chairman and Medical Manager Division Heart and Lungs, UMC Utrecht	April 2012-April 2017
Acting Chairman Department Lung Diseases	Sept. 2016-April 2017
Project leader HiX (Healthcare Information X-change)	2015-2016
Acting Chairman and Medical Manager Division Surgical Specialties	Nov 2015 – May 2016
Acting Chairman department of Cardio Thoracic surgery	Jan 2014 – April 2015
Acting manager Research and Education Division Heart and Lungs	Jan – Sept 2015
Treasurer Friends of the Cardiology Foundation	2013
Chairman Renal Denervation Working group, NVVC	2011
Associate professor in Cardiology, UMC Utrecht	Dec. 2002
Associate professor in Cardiology, Maastricht,	Nov. 2000 – Dec. 2002
Programleader CARIM division II Cardiac function	Nov. 2000 – Dec. 2002

### European Society of Cardiology

Member EU affairs committee	Sep 2012 - Aug 2014
Member of the Nominating Committee	July 2012
Treasurer Council on Basic Cardiovascular Science	Sep. 2010-2012
Chairman of working Group of Cellular Biology of the Heart	Sep. 2006-2012
Member European Medicine Agency, Committee Advanced Therapies	Jan 2013 - June 2016

### EDITORIAL BOARD

Cardiologen Vademecum 1996-2002
Associate Editor Netherlands Heart Journal
European Heart Journal 2003-2012
Journal of Cellular and Molecular Medicine
World Journal of Cardiology
PLoS One
Clinical Genetics (2015-present)

## IP AND COMPANIES

### Embryonic stem cells

Mummery Christine, Doevendans Petrus, Tertoolen Leon: Differentiation of human embryonic stem cells to cardiomyocytes. Es Cell Int Dec, 28 2005: EP1608740; GB2415437

A method for inducing cardiomyocyte differentiation of a hES cell, the method comprising co-culturing the hES cell with a cell excreting at least one cardiomyocyte differentiation inducing factor or with an extracellular medium therefrom, under conditions that induce differentiation, cells and cell...

### Companies

- *Leadpharma* <http://www.leadpharma.com/>

Patent application title: PROVISION OF NEW CARDIOMYOCYTE PROGENITOR CELLS AND CARDIOMYOCYTES DERIVED THEREFROM

Inventors: Marie Jose Goumans (Mijdrecht, NL) Pieter Doevendans (Utrecht, NL)

Assignees: LEAD PHARMA CEL MODELS IP B.V.

Publication date: 2010-08-12

Patent application number: 20100203021

The present invention relates to cardiomyocyte progenitor cells (CMPCs), to methods for their isolation and to the use of this CMPCs for the provision of cardiomyocytes, by way of differentiating the obtained CMPCs with a demethylating agent. The present invention also relates to pharmaceuticals compositions comprising cardiomyocytes for use in a cardiomyocyte replacement therapy and/or for the treatment in myocardial infarctation or for ameliorating the effects of myocardial infarctation. Read more: <http://www.fags.org/patents/app/20100203021#ixzz2NQdhrREm>

- *Dutchcardio (converted to International Cardio Corporation, ICC)*

Patent application title: IMAGE GUIDED PLAQUE ABLATION

Inventors: Yolande Appelman, Pieter Doevendans, Donald Knight

Patent application number: 20090048546

A method and system for reducing vascular plaque non-invasively comprising the steps of imaging at least a portion of a mammalian body to produce an image; determining the location of at least one vascular plaque in said image; ascertaining the location of the base of said vascular plaque, said location of base being the target location; precisely determining the relative position of said target location with respect to the cardiac rhythm in the body; delivering a beam of ultrasound energy waves from a source to the relative position to elevate temperature of said target location in a pre-determined manner; monitoring the temperature of the target location; and discontinuing delivery of ultrasound energy waves when said target location achieves a pre-determined set temperature. Read more: <http://www.freshpatents.com/-dt20090219ptan20090048546.php>. FIM ongoing in UMCU

- *HeartEye*: Delivering medical grade ECG diagnostics anywhere anytime.

## RESEARCH GRANTS OBTAINED

- NATO Collaborative Research Grant. 1996-1997. Travel grant for collaboration with Robert S. Kass, University of Columbia, New York USA. "Expression of min K channels in heart".
- The Netherlands Heart Foundation: 1997-1999. "The characterization of the regulatory sequence of the atrial myosin light chain 2 gene".
- NIH: "The role of the min K gene". Grant with R.S. Kass.
- The Netherlands Heart Foundation: "Hypertrophic cardiomyopathy: early non-invasive identification of altered myocardial mechanics and coronary flow" (nr. 99.203) with A.C. van Rossum, VU Amsterdam.
- The Netherlands Heart Foundation: "Characterization of the effects of estrogen on cardiac function under pathophysiological conditions" (nr. 99.114)
- The Netherlands Heart Foundation: "Elucidation of pathogenic genetic pathways in the hypertrophic and failing heart by micro-array-technology" (nr. 99.122) with H. Smeets, University Maastricht.
- Jan Dekkerstichting en dr. Ludgardine Bouwmanstichting: "Adenovirale gentherapie voor boezemfibrilleren" (nr. 99-04)
- The Netherlands Heart Foundation: "Inhibition of myocardial hypertrophy and dilatation by viral mediated blockade of intracellular signaling pathways" (nr. 2000.160)
- ICIN: Molecular genetic basis of cardiovascular disease (2000)
- ICIN: Human genetics and cardiovascular development (2000)
- NHS: Dekker program: Vanessa van Empel (2001-2004)
- STW: Stem cell based cardiomyocyte differentiation and classification in 3 D cultures (2003)
- BSIK: Weefsel op maat (2003)
- Bekales Research Grant – Cardiology 2004, candidature.
- Bekales Research Grant (2005)
- NHS: Translational medicine: stem cell applications (2006)
- ICIN: Stem cells from patients with genetic cardiac disease (2007)
- BMM: SMARTCARE: cardiac repair with microtissues (2008)
- NIRM: Stem cells as disease models (2009)
- ZonMw: TAS (Translationeel Adult Stamcelonderzoek) Cardiomyocyte progenitor cells for clinical application in cardiac repair (2011-2015)  
Phase A1 preclinical PL €300.000 (total project €2.0M)
- CVON: HUSTCARE: HUman STem cells for CARdiac Repair (2012-2017)  
(Total project 5M)
- CAS-NW Program: Cardiac cell therapy in a preclinical animal model for hereditary cardiomyopathie (Total project 450K)
- LEDUCQ: CUREPLaN (Total project 6 M€) (2018)
- REGMED: Cardiovascular Moonshot (4 M€) (2018)
- ZonMW Innovatie fonds MiniECG and AI for ECG analysis: patent pending (0,8M€) 2019
- Private donations 500 K€ / annually