Prevention and reversal of atrial cardiomyocyte remodeling in Atrial Fibrillation:

via modulation of HSPs, metabolic and epigenetic factors

Xu Hu

胡旭
The experiments in this thesis were performed at the department of Clinical Pharmacy and Pharmacology of the University Medical Center Groningen, and the department of Physiology of the Amsterdam UMC, Vrije Universiteit, Amsterdam Cardiovascular Sciences, Amsterdam, The Netherlands.

This research project was financially supported by the Dutch Heart Foundation (2013T096), CVON2014-40 DOSIS, CVON-STW2016-14728 AFFIP, the European Community, European Fund for Regional Development (Operationeel Programma Noord-Nederland 2007-2012, OP-EFRO), and the Province of Groningen, Innovative Action-program Groningen (IAG3); the Netherlands Cardiovascular Research Initiative and LSH-TKI (40-43100-98-008).

Financial support by the Amsterdam Cardiovascular Sciences and Dutch Heart Foundation for printing this thesis is gratefully acknowledged.

Prevention and reversal of atrial cardiomyocyte remodeling in Atrial Fibrillation: via modulation of HSPs, metabolic and epigenetic factors.

ISBN: 978-94-028-1433-0

© Copyright Xu Hu 2019 Amsterdam, The Netherlands

All rights are reserved.
No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without permission of the author.

Cover concept: Xu Hu
Cover design: Rachel van Esschoten, DivingDuck Design (www.divingduckdesign.nl)

Layout: Xu Hu & Ipskamp Printing
Printing: Ipskamp Printing
Prevention and reversal of atrial cardiomyocyte remodeling in Atrial Fibrillation:
via modulation of HSPs, metabolic and epigenetic factors
promotor: prof.dr. B.J.J.M. Brundel

copromotor: dr. D. Zhang
Motivation is what gets you started. Habit is what keeps you going......
promotiecommissie: prof.dr. J. van der Velden
prof.dr. A.C. van Rossum
prof.dr. J.W.J. Beulens
prof.dr. N.M.S. de Groot
prof.dr. P.L. Hordijk
dr. D.A. Pijnappels

paranimfen: Larissa Dorsch
Xiaoqing Sun