



## UvA-DARE (Digital Academic Repository)

### Cardiovascular control by the biological clock

Scheer, F.A.J.L.

**Publication date**  
2002

[Link to publication](#)

#### **Citation for published version (APA):**

Scheer, F. A. J. L. (2002). *Cardiovascular control by the biological clock*. [Thesis, externally prepared, Universiteit van Amsterdam].

#### **General rights**

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

#### **Disclaimer/Complaints regulations**

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

## Table of Contents

### PART I: INTRODUCTION

- Chapter 1 The ins and outs of the clock 11

### PART II: RAT STUDIES

- Chapter 2 Physiological and anatomic evidence for regulation of the heart by suprachiasmatic nucleus in rats. 41

*Am J Physiol*, 280: H1391-H1399, 2001

- Chapter 3 Light and biological clock interact in the regulation of body temperature. 59

*Submitted*

### PART III: HUMAN STUDIES

- Chapter 4 Light and diurnal cycle affect human heart rate: possible role for the circadian pacemaker. 83

*J Biol Rhythms* 14: 202-212, 1999

- Chapter 5 Light and diurnal cycle affect autonomic cardiac balance in human: possible role for the biological clock. 99

*In progress*

- Chapter 6 Light affects morning salivary cortisol in humans. 107

*J Clin Endocrinol Metab* 84: 3395-3398, 1999

- Chapter 7 Human basal cortisol levels are increased in hospital compared to home setting. 115

*Neurosci Lett* 333: 79-82, 2002

- Chapter 8 Daily nighttime melatonin reduces nocturnal blood pressure in patients with essential hypertension. 123

*Submitted*

## *Table of Contents*

### PART IV: GENERAL DISCUSSION AND SUMMARY

Chapter 9	General discussion	137
	References	161
	Summary	179
	Samenvatting	183
	Curriculum vitae	187
	List of publications	188
	Dankwoord	189
	List of abbreviations	191

