

Mapping insomnia:
brain structure, function and
sleep intervention

Ellemarije Altena

Altena, E
Mapping insomnia: brain structure, function and sleep intervention

ISBN/EAN: 9789086594313

© Copyright Altena, 2010

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

Layout: Legatron Electronic Publishing, Rotterdam, The Netherlands

Foto cover: David R. Burdick. Brain coral by natural light.

Printed by: Ipskamp Drukkers, Enschede, The Netherlands

VRIJE UNIVERSITEIT

**Mapping insomnia: brain structure, function
and sleep intervention**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan
de Vrije Universiteit Amsterdam,
op gezag van de rector magnificus
prof.dr. L.M. Bouter,
in het openbaar te verdedigen
ten overstaan van de promotiecommissie
van de faculteit der Aard- en Levenswetenschappen
op woensdag 17 maart 2010 om 11.45 uur
in de aula van de universiteit,
De Boelelaan 1105

door

Ellemarije Altena

geboren te Utrecht

promotoren: prof.dr. E.J.W. van Someren
prof.dr. D.F. Swaab

copromotoren: dr. Y.D. van der Werf
prof.dr. Ph. Scheltens

MEMBERS OF THE THESIS COMMITTEE:

prof.dr. P. Maquet
prof.dr. C.H. Bastien
prof.dr. E.J.A. Scherder
prof.dr. S.A.R.B. Rombouts
dr. O.A. van den Heuvel
dr. R.L.M. Strijers

The research described in this thesis was conducted at the Netherlands Institute for Neuroscience and the VU University Medical Center. Financial/material support was provided by:

Netherlands Organisation for Scientific Research (NWO) The Hague, VIDI
innovation grant 016.025.041
Netherlands Organisation for Scientific Research (NWO) The Hague,
Cognition Integrative Research Project 051.04.010
Netherlands Organisation for Scientific Research (NWO) The Hague, VICI
innovation grant 453.07.001
Philips Lighting B.V., Eindhoven
Cambridge Neurotechnology, Cambridge, UK

Financial support for the printing of this thesis was generously provided by:

Netherlands Institute for Neuroscience
VU University
Alzheimer Center of the VU University Medical Center
Philips Lighting B.V.
Remmert Adriaan Laan fonds
J.E. Jurriaanse Stichting
Dutch Society for Sleep-Wake Research (NSWO)
Merck Sharp & Dohme B.V.
Siemens N.V.
Danone Research-Centre for Specialised Nutrition
Boehringer-Ingelheim B.V.

