

Ding, J.

### Citation

Ding, J. (2024, June 27). *Glucocorticoid signaling in a rat model of post-traumatic stress disorder*. Retrieved from https://hdl.handle.net/1887/3765405

Version:	Publisher's Version
License:	<u>Licence agreement concerning inclusion of doctoral thesis in the</u> <u>Institutional Repository of the University of Leiden</u>
Downloaded from:	https://hdl.handle.net/1887/3765405

Note: To cite this publication please use the final published version (if applicable).

Jinlan Ding

Jinlan Ding

PhD thesis, Leiden University Medical Center, the Netherlands

ISBN: 978-94-6496-120-1

Cover design and layout by Jinlan Ding non-scientific illustrations drawn by Jiayan Sun and gifted to Jinlan Ding

The research presented in this thesis was partially funded by Concept Therapeutics that develops GR antagonists, Jinlan Ding was supported by the China Scholarship Council (CSC, grant 201608210229).

#### Copyright © Jinlan Ding, 2024

All right reserved. No part of this thesis may be transformed, reproduced or transmitted in any form by any means without prior permission of the author. The copyright of the published chapter was transferred to the publisher of the journal in which the work has appeared.

Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden,

op gezag van rector magnificus prof.dr.ir. H. Bijl,

volgens besluit van het college voor promoties

te verdedigen op donderdag 27 juni 2024

klokke 13.45

door

### Jinlan Ding

geboren te Hei Longjiang, China

in 1981

### Promotor Prof. Dr. O. C. Meijer

#### Leden promotiecommissie

Prof. dr. H. G. J. M. Vermetten

- Prof. dr. K. Gapp (ETHZ, Zürich)
- Prof. dr. P. Campolongo (Sapienza University, Rome)

Prof. dr. C. Vinkers (AUMC, Amsterdam)

The work described in this thesis was performed at the Department of Medicine, Division of Endocrinology of the Leiden University Medical Center, Leiden, the Netherlands.

### Table of content

Chapter 1	General introduction and outline.	1
Chapter 2	Late glucocorticoid receptor antagonism changes the outcome of adult life Stress.	17
Chapter 3	Effects of RU486 treatment after single prolonged stress depend on the post-stress interval.	45
Chapter 4	An advanced transcriptional response to corticosterone after single prolonged stress in male rats.	77
Chapter 5	The role of $\beta$ -arrestin-2 on Fear/anxious-related memory in a rat model of Post-traumatic stress disorder.	97
Chapter 6	General discussion and perspectives	119
Chapter 7	Summary	142
	Samenvatting	144
	List of publications	147
	Curriculum Vitae	148
	Acknowledgements	149

