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## Towards a neurobiological view of depression

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*Document Version*

Publisher's PDF, also known as Version of record

*Publication date:*

2017

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*

van Buel, E. (2017). *Towards a neurobiological view of depression: Search for diagnostic biomarkers and alterations by electroconvulsive therapy*. [Thesis fully internal (DIV), University of Groningen]. Rijksuniversiteit Groningen.

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# **Towards a neurobiological view of depression**

search for diagnostic biomarkers and alterations  
by electroconvulsive therapy

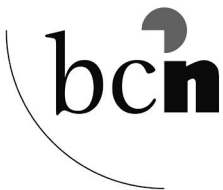
Erin Marijn van Buel

The studies described in this thesis were carried out at the Groningen Institute for Evolutionary Life Sciences (GELIFES), University of Groningen, Groningen, the Preclinical Laboratory for Translational Research into Affective Disorders (PLaTRAD), University Hospital of Psychiatry, Zürich (Switzerland) and Brainlabs B.V., Deventer. This research has been supported by a grant from the Dutch Ministry of Economic Affairs (registered under grant number PID\_09\_02/120329), ZonMW (registered under grant number 114024029) and a Boehringer Ingelheim Fonds travel grant.

The printing of this thesis was financially supported by the Groningen Graduate School of Science and Engineering and the University of Groningen



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Layout	Bianca Pijl, <a href="http://www.pijlldesign.nl">www.pijlldesign.nl</a> , Groningen, The Netherlands
Cover design	Iris de Groot
Printed by	Ipskamp Printing Enschede, The Netherlands
ISBN	978-90-367-9861-7 (print) 978-90-367-9862-4 (digital)

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# Towards a neurobiological view of depression

Search for diagnostic biomarkers and alterations by  
 electroconvulsive therapy

## Proefschrift

ter verkrijging van de graad van doctor aan de  
 Rijksuniversiteit Groningen  
 op gezag van de  
 rector magnificus prof. dr. E. Sterken  
 en volgens besluit van het College voor Promoties.

De openbare verdediging zal plaatsvinden op

vrijdag 30 juni 2017 om 14.30 uur

door

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geboren op 31 januari 1985  
 te Amsterdam

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