



University of Groningen

## Exciting links: imaging and modulation of neural networks underlying key symptoms of schizophrenia

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# EXCITING LINKS

IMAGING AND MODULATION OF NEURAL  
NETWORKS UNDERLYING KEY SYMPTOMS  
OF SCHIZOPHRENIA

LEONIE BAIS

### *About the cover*

In this contemporary Rorschach-style inkblot, one could perceive two connected faces, representing the human aspect of this thesis, as well as the exciting links that are made between several groups of patients. The blot is made out of different colors of ink, resembling the brain networks that have been investigated in this thesis. In addition, the blot has the shape of a butterfly. This is a reference to the 'butterfly' TMS coil that is used to excite links in the brains of patients that participated in the treatment studies. But of course, such blots are subject to interpretation. What do *you* perceive?



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# Exciting links

Imaging and modulation of brain networks underlying  
key symptoms of schizophrenia

## 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  
woensdag 8 februari 2017 om 11.00 uur

door

**Leonie Bais**

geboren op 3 oktober 1980  
te Den Helder

**Promotor**

Prof. dr. A. Aleman

**Copromotor**

Dr. H. Knegtering



**Beoordelingscommissie**

Prof. dr. I. E. Sommer

Prof. dr. O.M. Tucha

Prof. dr. R. Jardri

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