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### Gating neuronal activity in the brain

*Cellular and network processing of propagating activity in the perirhinal–entorhinal cortex*

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**Publication date**

2019

**Document Version**

Other version

**License**

Other

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

Willems, J. G. P. (2019). *Gating neuronal activity in the brain: Cellular and network processing of propagating activity in the perirhinal–entorhinal cortex*.

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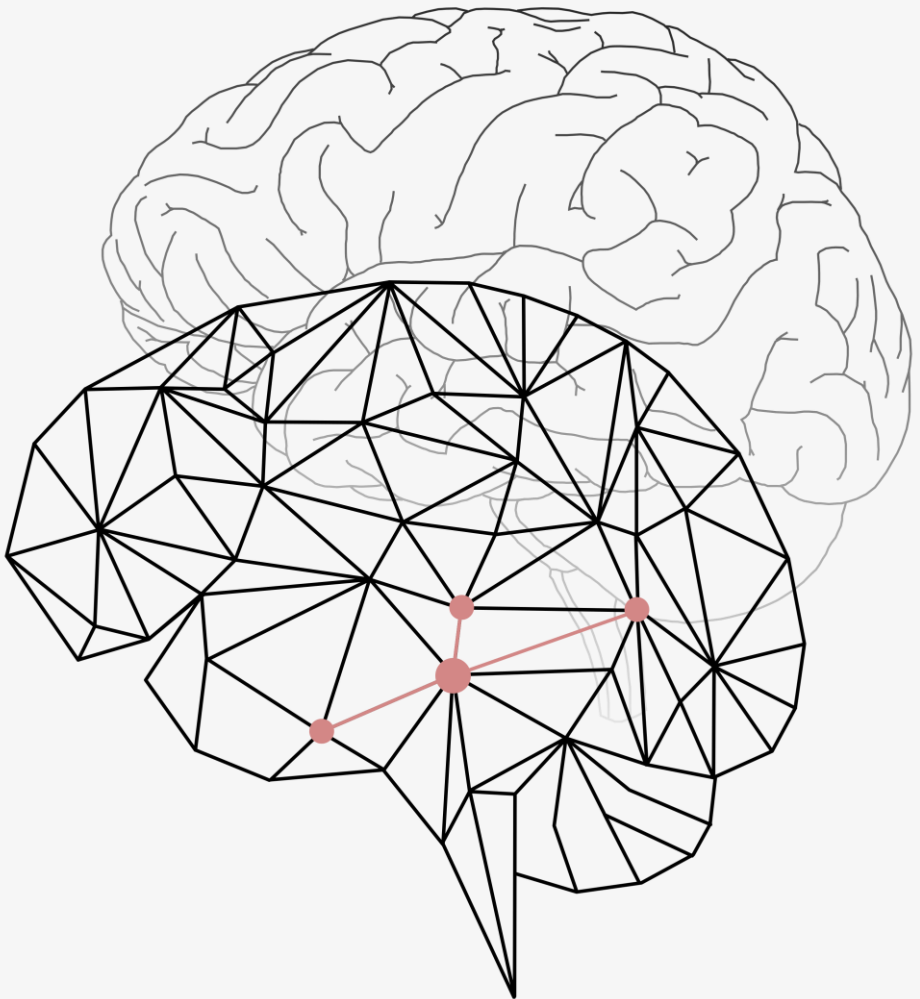
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in the perirhinal- entorhinal cortex



Janske G.P. Willems

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## About the cover

The cover was designed by Janske Willems and shows the lateral view of the human brain, superimposed by a geometric brain schematically representing network connectivity. The perirhinal-enthorhinal network and its input from the amygdala and insula are highlighted in red.

## Colophon

The research in this thesis was carried out at the Swammerdam institute for Life Sciences, a research institute of the Faculty of Science at the University of Amsterdam

Cover & layout	Janske G.P. Willems
Printing	ProefschriftMaken    <a href="http://www.proefschriftmaken.nl">www.proefschriftmaken.nl</a>
ISBN	978-94-6380-243-7

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ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor  
aan de Universiteit van Amsterdam  
op gezag van de Rector Magnificus  
prof. dr. ir. K.I.J. Maex

ten overstaan van een door het College voor Promoties ingestelde commissie,  
in het openbaar te verdedigen in de Agnietenkapel  
op vrijdag 15 maart 2019, te 12:00 uur  
door

**Johanna Gerardina Petronella Willems**  
geboren te Wanroij

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*You can't fly unless you let yourself fall...*

- Justin Bieber





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