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## Cholinergic modulation of microcircuits in the cortex

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VRIJE UNIVERSITEIT

**Cholinergic modulation of microcircuits  
In the cortex**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. V. Subramaniam,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Bètawetenschappen  
op woensdag 3 april 2019 om 11.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

Joshua Miro Gabriel Obermayer  
geboren te Rauenberg, Duitsland