

ANNE MARIJE KAAG



PERSONAL DETAILS

Email: info@annemarijekaag.com
Website: www.annemarijekaag.com

PERSONAL NOTE

Why do people continue a certain behavior despite all the negative consequences? Can people 'unlearn' the habit of wanting and taking drugs of abuse? What role does stress play in the development and continuation of substance dependence? As an ambitious young neuroscientist I am highly motivated to seek and get answers on these and other questions related to drug and alcohol dependence.

EDUCATION

- 2009-2011 Master Brain and Cognitive Science – graduated with distinction (cum laude)**
University of Amsterdam
Thesis: 'Neuropsychological differences between pedophiles and child molesters'
- 2006-2009 Bachelor Psychobiology – average grade: 7.5**
University of Amsterdam
Literature thesis: 'A potential novel pharmaceutical target for the treatment of addiction'
- 1999-2005 VWO, Nature and Health**
Eerste Christelijk Lyceum Haarlem

RESEARCH EXPERIENCE

- Currently Posdoctoral researcher, University of Amsterdam**
Project: Reframing the addiction-occupied mind by disrupting reconsolidation of alcohol memories through working memory interference
- 2012-2016 PhD-candidate Academic Medical Centre, Amsterdam, department of Psychiatry**
Dissertation: 'Are cocaine users too sensitive? Structural and functional brain abnormalities in regular cocaine users'
- 2011 Research assistant Academic Medical Centre, Amsterdam, department of Radiology**
As a research assistant I was responsible for the recruitment and administration of subjects for a clinical trial to study the effects of psychotropic drugs on the developing brain
- 2011 Second Master internship, Academic Medical Center, Amsterdam, department of radiology**
Thesis: "Mapping dopaminergic function using pharmacologic MRI"
- 2010 First Master internship, Academic Medical Center, Amsterdam, department of psychiatry**
Thesis: "Reward sensitivity in Alcohol Dependent Patients, an fMRI study"

RELEVANT COURSES

- 2016** Laboratory animal Science course
University of Utrecht
- 2013** Functional Neuroanatomy
ONWAR Graduate School
- 2012** Basic course on Rules and Organisation of Clinical trials
AMC Graduate School
- 2012** Neuropsychopharmacology
ONWAR Graduate School

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PUBLICATIONS

Kaag, A.M., R.S. Schluter, J. Homberg, Karel, P., W. van den Brink, L. Reneman, G. van Wingen (2016). Aversive counterconditioning attenuates reward signalling in the ventral striatum. *Frontiers in Human Neuroscience* (in press)

Kaag, A.M., K. Woutersen., N. Levar., W. van den Brink, J. Homberg., G. van Wingen., L. Reneman., (2016). Hyper-responsiveness of the neural fear network during fear conditioning and extinction learning in male cocaine users. *American Journal of Psychiatry* (in press)

Kaag, A.M., van Wingen, G., Caan, M.W.A., Homberg, J., van den Brink, W., Reneman, L., (2016). White matter alterations in cocaine users are negatively related to the number of additionally (ab)used substances. *Addiction Biology* (in Press)

Kaag, A.M., Crunelle, C.L., Hanna van den Munkhof, Liesbeth Reneman, Judith R. Homberg⁵, Bernard Sabbe, Wim van den Brink, Guido van Wingen (2015). Dysfunctional amygdala reactivity and amygdala connectivity with the prefrontal cortex in regular cocaine users. *Human Brain Mapping*, 36:10

Kaag, A. M., Crunelle, C. L., van Wingen, G., Homberg, J., van den Brink, W., & Reneman, L. (2014). Relationship between trait impulsivity and cortical volume, thickness and surface area in male cocaine users and non-drug using controls. *Drug and Alcohol Dependence*, 144

Kaag, A.M., Crunelle, C.L., van Wingen, G., van den Munkhof, H., Homberg, J.R., Reneman, L., van den Brink, W. (2013). Reduced frontal brain volume in non-treatment seeking cocaine dependent individuals: exploring the role of impulsivity, depression and smoking. *Frontiers in human neuroscience*, 8:7

Schouw, M. L. J., Kaag, A.M., Caan, M. W. a, Heijtel, D. F. R., Majoie, C. B. L. M., Nederveen, J., Booij, J., et al (2013). Mapping the hemodynamic response in human subjects to a dopaminergic challenge with dextroamphetamine using ASL-based pharmacological MRI. *NeuroImage*, 72

Schouw, M. L. J., De Ruiter, M. B., Kaag, A.M., Van den Brink, W., Lindauer, R. J. L., & Reneman, L. (2012). Dopaminergic dysfunction in abstinent dexamphetamine users: Results from a pharmacological fMRI study using a reward anticipation task and a methylphenidate challenge. *Drug and alcohol dependence*, 130

AWARDS AND SCHOLARSHIPS

- 2015 Travel Award European Foundation of Alcohol Research
- 2015 Travel Award AUF Spinoza Fund
- 2014 Travel Grant European College for Neuropsychopharmacology
- 2014 NWO Stimulation Fund Open Access (ONWAR annual meeting)
- 2014 GNGH Fund for scientific meeting ("Is addiction a disease?")

TEACHING AND MENTORING

- 2014&2015 Scientist Klokhuis vragendag
- 2013 Lecturer symposium on drug and addiction, UvA
- 2013 Lecturer CSCA Summer School 2013: Genes, the brain and behavior, UvA

ORGANIZING COMMITTEE MEMBERSHIP

- 2016 'Is addiction a disease?' Location: Rotterdam
- 2015 'Is addiction a disease?; Location: Amsterdam
- 2015 'What does Amsterdam know about the brain? An ABC NeuroImaging symposium'
- 2014 'ONWAR Annual Meeting'
- 2012-2015 'Brain Imaging Meeting'
- 2008-2009 CookCie Subcommittee student Union CONGO, UvA

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(INTER)NATIONAL PRESENTATIONS

- 2015** Cocaine abuse is associated with hyperresponsivity of the amygdala (oral). *22nd ONWAR annual meeting, Woudschoten*
- 2015** Are cocaine users too sensitive? Brain imaging studies in male cocaine users (oral). *Grand Round, Department of Psychiatry, Academic Medical Centre, Amsterdam*
- 2015** Hyperresponsiveness of the neural fear network in cocaine abuse disorder (oral). *European College for Neuropsychopharmacology Congress, 2015, Amsterdam;*
- 2015** The effects of poly-drug use on white matter integrity (oral). *38th Annual Research Society on Alcoholism Scientific Meeting, 2015, San Antonio*
- 2015** Hyperresponsivity of the amygdala during fear processing in cocaine users (oral). *ECNP workshop on Neuropsychopharmacology for Junior Scientists, 2015, Nice*
- 2014** The neural sensitivity to conditioned cues in male cocaine users (oral). *24th Forum on Drug and Alcohol Research, Utrecht*
- 2014** Neural correlates of aversive conditioning in regular cocaine users (poster). *21st ONWAR annual meeting, Woudschoten*
- 2014** Neural correlates of aversive conditioning in regular cocaine users (poster). *20th Human Brain Mapping, Hamburg*
- 2014** Gray matter abnormalities in regular cocaine users (oral). *Drug and Addiction Symposium, Amsterdam, the Netherlands*
- 2013** Are gray matter abnormalities in cause or a consequence of regular cocaine use (oral). *23rd Forum on Drug and Alcohol Research, Utrecht*
- 2013** Differential effects of short- and long-term cocaine use on cortical volume, thickness and surface area (poster). *20th ONWAR annual meeting, Woudschoten*
- 2013** Differential effects of cocaine use on cortical volume, thickness and surface (poster). *European College for Neuropsychopharmacology Congress, 2013, Barcelona.*
- 2010** Mapping dopaminergic function using pharmacological MRI (oral). *9th Dutch Endo-Neuro-Psycho-Meeting), Lunteren*