

# Curriculum Vitae, Dr. Rudie (“Ruud”) Kortekaas, M.Sc., Ph.D.

## EDUCATION AND APPOINTMENTS

May 2015-present	Magnolia Therapeutics, owner.
Aug 2013-present	microTMS B.V., managing director, major shareholder.
Mar 2008 - present	Neuroimaging Center, Dept. Neurosciences, University Medical Center Groningen, University of Groningen, NL.
2006-present	Faculty member, Dept. Neurosciences, University Medical Center Groningen, University of Groningen, NL.
Jan 2004-present	Assistant professor, Dept. Neurosciences, University Medical Center Groningen, University of Groningen, NL.
1999-2003	Post-doctoral researcher, Dept. Neurology, University Medical Center Groningen, University of Groningen, NL.
1996-1999	Ph.D. in Neuromodulation and intracranial EEG, School of Pharmacy, University of Bradford, UK.
1995-1996	Research scientist, Psychiatry Department, Glaxo SmithKline, Harlow, UK.
1991-1995	M.Sc. in Biopharmaceutical Sciences, University of Leiden, NL.
1991	First year diploma ('propaedeuse') Biology, University of Leiden, NL.

## MAIN RESEARCH INTERESTS

Effects of weak electromagnetic fields on human psychobiology with special reference to mood and pain.

## AWARDED GRANTS

	Title	Agency	Amount (k€)
Nov 2013	<i>Novel administration regimens for antidepressant NMDA ligands</i> Coapplicants: Prof. R.A. Schoevers, T. Chaves, M.Sc.	Brazilian Government, Science without borders programme.	180.0
Jul 2013	<i>Development of dosimetry tools for human transcranial pulsed electromagnetic field stimulation in treatment of depression</i> Coapplicants: H.T. Mulder, B.Sc. & prof. G. van Rhoon	Zon-MW project 85500032	50.0
Jan 2012	<i>Feasibility of low field TMS as a potential new epilepsy treatment</i> Coapplicants: Prof. N.M. Maurits & Dr B. Ćurčić-Blake	UMCG Innovation Fund project U-11-214	48.5
Jan 2012	<i>Antidepressive Effects of Pulsed Electromagnetic Fields (PEMF) in patients with treatment resistant depression</i> Coapplicants: Profs A. Aleman & R. Schoevers	UMCG Innovation Fund project U-11-221	61.9
Sep 2011	<i>Antidepressive Effects of Pulsed Electromagnetic Fields (PEMF) in patients with treatment resistant depression</i> Coapplicants: Profs A. Aleman & R. Schoevers	Fonds NutsOhra project 1103-068	100.0
Sep	<i>Analgesic Effects of Microtesla Transcranial Magnetic</i>	UMCG Innovation	

2009	<i>Stimulation: phase I and phase II clinical studies</i>	Fund	112.5
	Coapplicant: Prof. N.M. Maurits	project 689900	
Jul	<i>Analgesic Effects of Microtesla Transcranial Magnetic</i>	UMCG Innovation	
2006	<i>Stimulation: phase I studies</i>	Fund	37.5
	Coapplicant: Prof. N.M. Maurits	project 689900	

## QUALIFICATIONS

2014	University Teaching Qualification (Basiskwalificatie Onderwijs - BKO) Qualitative judicium: "an enthusiastic, creative and experienced lecturer".
2013	Qualification for Clinical Scientific Research (Basiscursus Regelgeving en Organisatie Klinisch-wetenschappelijk onderzoek - BROK). Passed with 81% score. Diploma on 22 Oct 2013.
2011-present	Yearly Emergency Medical Response Team training, A1 Trainingen, Groningen, 2-2-2011.
2010	Structure, dynamics and function in large scale neuronal ensembles, FENS, RAI.
2010	Media Training "Science, Medicine & Using the Media to Make Your Point", M. Riggulsford, The Walnut Bureau.
2006	C and C+ +, F.B. Brokken, Univ. Groningen.
2006	APOLLO work shop on ICT in higher education "De docent als initiator" Univ. Groningen.
2005	"Mentor training", Univ. Groningen.
2005	Toolkit Cognitive Neurosciences, UMC St. Radboud, Nijmegen.
2004	Web platform for content authors, Univ. Groningen.
2004	Small group tuition, "Tutor training", Univ. Groningen.
2002	Matlab for Neuroimaging, Dr R.P. Maguire, UMCG.
2000	PET Pharmacokinetic Course, Prof. Dr R.E. Carson, UMCG.
1999	Brain Mapping, Functional Mapping of the Human Brain Conference, Düsseldorf.
1992-3	Biopsychology, Neuropsychology, Psychopathology, Psychophysiology and Psychopharmacology, Psychology Faculty, Univ. Leiden.
1992-3	Clinical Neuropsychology, Medical Faculty, Univ. Leiden.

## ORGANISATION

Open day (18-11-2014) for the Landelijke Excursie Commissie of Nederlands Instituut voor Psychologen.

Organising Committee Summer School Translational Neurosciences, Depts of Neuroscience and Neurology, 2014, Univ. Medical Center Groningen.

Coordinator of the N-track of the topmaster Research Master of the School for Behavioral and Cognitive Neurosciences. (2013-present).

Member of Board of Examiners of the topmaster Research Master of the School for Behavioral and Cognitive Neurosciences. (2013-present).

Member of Curriculum Committee of the topmaster Research Master of the School for Behavioral and Cognitive Neurosciences. (2013-present).

Chairman of the Admissions Committee of the topmaster Research Master of the School for Behavioral and Cognitive Neurosciences. (2013-present).

Member of Board of Reviewers for Research Proposals for the PhD programme of the School for Behavioral and Cognitive Neurosciences: N-track-to-BCN-BRAIN. (2014-present).

Member of Thesis Prize Committee of the PhD programme of the School for Behavioral and Cognitive Neurosciences. (2013-present).

Invited chairman (07-10-2012) "International Conference on Psychedelic Research", Stichting OPEN. 400+ visitors.

Invited chairman (23&24-10-2010) "Mind Altering Science, An OPEN conference on psychedelic research", Stichting OPEN. 450 visitors.

Microsymposium: "Health effects from exposure to stray-magnetic fields from MRI scanners" 25 Jan 2011,

UMCG; Dr R. Kortekaas: Introduction on EMF and Health; Prof Hans Kromhout: Health effects from exposure to stray-magnetic fields from MRI scanners Overview of ongoing research; Ms Lotte van Nierop: The effect of magnetic fields on behaviour and neurocognition.

Coordination of ambulant EEG supervisors at Pharmaceutical Research Associates, Zuidlaren.

Training of Medical Research Associates in clinical EEG measurements, Pharmaceutical Research Associates, Zuidlaren.

Recruitment and training of ambulant EEG supervisors for contract work, Neuroimaging Center, Groningen.

Coorganiser and chairman, Annual BCN Symposium "Cognitive Neuroscience of Dopamine-related Brain Function", Univ. Groningen, 1<sup>st</sup> July 2010.

Organiser and chairman, microsposium "Clinical aspects of weak complex magnetic fields", Univ. Groningen, June 2010. Speakers: J. Cuppen and R. Kortekaas.

Coorganiser and chairman, "Transcranial Magnetic Stimulation In Cognitive Neuroscience", Univ. Groningen, May 2007, with Prof. Aleman.

Organisor of the "Receptor Club", bimonthly lectures in receptor pharmacology, Univ. Groningen 2001-2003.

"Group Oral Skill in Presentation", bimonthly workshops for BCN Ph.D. students and post-docs, Univ. Groningen 1999-2003.

## SUPERVISION

Supervised 39 practical research projects, 20 colloquia, 22 essays/theses, 12 final theses for master or bachelor, 13 PhD projects 7 of which as copromotor and 1 research assistant.

## TEACHING EXPERIENCE

Year	University	Role	Subject	Language	Students
2011-2014	RuG	Lecturer	Human Neuroanatomy	English	fMRI course NeuroImaging Center
2011	RuG	Lecturer	Imaging Techniques	Dutch	Life Science & Technology
2006-2014	RuG	Lecturer, practical demonstrator, course leader, course designer.	Human Neuroanatomy yearly advanced course.	English	BCN research masters, also open to Ph.D. Candidates and staff members of RuG and UMCG.
2008	RuG	Lecturer	Clinical Anatomy of the airways	Dutch	Medicine I
2006-2008	RuG	Course designer / leader / lecturer	Neuroanatomy II	Dutch	Movement Sciences II
2006-2007	RuG	Lecturer	Neuroanatomy	Dutch	Medicine II
2004-2006	RuG	Oral Examiner	Neuroanatomy	Dutch	Movement Sciences II
2005-2008	RuG	Mentor	Scientific training ("Omgaan met wetenschap")	Dutch	Medicine I+II
2004-2005	RuG	Tutor	"Regeling en ontregeling"	Dutch	Medicine III
2004-2005	RuG	Lecturer	General anatomy	Dutch	Dentistry I

2004-2007	RuG	Course designer / leader / lecturer	General Anatomy	Dutch	Life Science & Technology
1996-1997	Bradford	Tutor	Physiology	English	Biomedical Sciences I+II, Pharmacy I, Optometry II
1996-1997	Bradford	Practical demonstrator	Physiology	English	Pharmacy I, Biomedical Sciences I

## WORKSHOPS

R. Kortekaas en S.M. van Belkum (22-01-2015) Universitair Centrum voor Psychiatrie Symposium, Workshop 5: Niet-invasieve hersenstimulatie.

## PROFESSIONAL AFFILIATIONS

Member of British Association for Psychopharmacology (BAP) 1996-2000.

Member of British Neuroscience Association (BNA) 1996-2000.

Member of Society for Neuroscience (SFN) 1996-2000, 2005-present.

Member of The Biochemical Society 1996-1997.

Member of Multidisciplinary Association for Psychedelic Studies (MAPS) 1999-2006.

## EXTERNAL AD HOC REFEREE

Journals: Brain Research, PLoS ONE, International Journal of Psychopharmacology, Synapse, Journal of Comparative Neurology, Marine Environmental Research.

Funding agency: NWO *Vernieuwingsimpuls*

PhD thesis: S. Noutch, (2011) Body image perceptions, stress and associated psychopathologies in the general populace, University of Bradford, UK.

## SCIENCE AND SOCIETY

### Voluntary work

April 2015 - present: Medical editor and copywriter for FESinfo, Fibromyalgie en Samenleving.

### Television, online TV and documentaries

Voice over for an educational film about atrophy as a symptom in psychiatry. [http://youtu.be/\\_w0qyiM-KVE](http://youtu.be/_w0qyiM-KVE)

Online TV, Unifocus, RUG, about pulsed electromagnetic fields against pain.

[http://www.unifocus.nl/index.php?id\\_item=244&tab=journaals](http://www.unifocus.nl/index.php?id_item=244&tab=journaals)

National TV, Editie NL, RTL4, about pulsed electromagnetic fields against pain.

<http://www.rtlnieuws.nl/editienl/nieuwe-pijnbestrijder-magneetmuts>

Local TV station, OOG TV, (23-04-2013), about pulsed electromagnetic fields against pain.

<http://www.oogtv.nl/2013/04/umcg-vindt-nieuwe-manier-van-pijnbestrijding/>

Online TV, Labyrint, VPRO (19-12-2012), application of psychedelics in psychotherapy, Eef Grob.

<http://www.wetenschap24.nl/programmas/labyrint/labyrint-tv/2012/december/Geestverruimende-therapie.html>

National TV: Pavlov episode about Mike Boddé, (23-12-2011) <http://www.uitzendinggemist.nl/afleveringen/1119338>

Interview for scientific documentary "Bijna-Doodervaring, bewustzijn los van het brein?" for "Wetenschap

in Beeld” by B. de Groot, P. Riksten and M. ten Kate. <http://www.youtube.com/watch?v=hHV-uJ6Atcw>  
National TV (31-10-2007), Science bulletin “Nieuwslicht”, VARA, interview about neuroimaging of Psilocybe effects.

### **Radio**

Radio interview, 4 minutes, OOG-radio, Schepen aan de Horizon, 4 Mar 2015. Interview about BreinDeBaas App.

Radio interview, 7 minutes, FUNX FM, de Avondshow, 19 Feb 2015. Interview about brain damage induced savantism.

Radio interview, 60 minutes, OOG-radio, Schepen aan de Horizon, 28 Jan 2015. Interview about magnetic brain stimulation.

Radio interview, Goedemorgen Nederland, Sven Kockelmann, KRO, 25 June 2013, 11:20h, National radio. Interview about pulsed electromagnetic fields against pain.

Radio interview, local radio, OOG radio, (23-04-2013) about pulsed electromagnetic fields against pain.

Radio interview for Hoe? Zo! Radio. Radio5, NTR(18-10-12) about Psychedelic research..

Radio interview (24-08-2012), FUNX FM, about hippocampal volume and complaining.

Radio interview for ‘De Gids’ (10-04-2012) with Felix Meurders about potential beneficial effects of controlled substances.

Radio interview with free journal ‘De Pers’ resulting in article ‘Driemaal daags aan de XTC’ (18-03-2012), <http://www.depers.nl/binnenland/637835/Driemaal-daags-aan-de-xtc.html>

Radio interview news bulletin “Spoken”, (16-01-2011), FUNX FM, about the revival of clinical research on psychedelics.

Radio interview (16-04-2010), news bulletin “Met het oog op morgen”, EO, national radio, about the revival of clinical research on psychedelics.

### **Printed media**

De Telegraaf, Wetenschapsbijlage (29 June 2013) Article about pulsed electromagnetic fields against pain.

De Volkskrant, Wetenschapsbijlage (24 June 2013) Article about pulsed electromagnetic fields against pain.

Dagblad van het Noorden (23 April 2013) Article about pulsed electromagnetic fields against pain.

Het Parool, article about ketamine as a novel antidepressant.

R. KorteKaas Het Parool (13-10-12) article about ketamine as a novel antidepressant.

News Paper Interview (6 October 2012), De Volkskrant, Wetenschapsbijlage (Scientific Supplement).

Interview for Nieuwe Revu (6 October 2012) about ketamine as a novel antidepressant.

Invited author for Papaver (Parkinson Patiënten Vereniging) (2007).

Invited author for Neuropraxis (2007).

Neuropharmacology week, “Scheurkalender Natuur en Techniek” (2000).

### **Online text media**

Labyrint news site “Ketamine: paardenmiddel tegen depressie?” by Bonny Vloet. <http://www.wetenschap24.nl/programmas/labyrint/nieuws/2012/Geestverruimende-therapie/Paardenmiddel-tegen-depressie.html>

<http://www.depers.nl/binnenland/637835/Driemaal-daags-aan-de-xtc.html>

Various online text publications about pulsed electromagnetic fields against pain <http://goo.gl/f7laU>

### **Public panels and public lectures**

R. KorteKaas, P. Neeleman, M. de Boer, Kenniscafé, PIJN! Studium Generale, 11 Dec 2014, Forum Images, Groningen.

R. KorteKaas Ketamine as an antidepressant. “Amazing Brain” BCN symposium. 14 June 2014. Forum Images, Groningen.

R. KorteKaas, D. de Jong. Evaluation of ‘The Substance – Albert Hofmann’s LSD’, Zienema movies, Vera, Groningen.

R. KorteKaas Panel member on team ‘Love to Know’, UMCG/RuG, competing for the ‘Academische

Jaarprijs 2012'.

R. KorteKaas Panel member Kenniscafé, Studium Generale, (17-11-2011), “Nog eentje dan... De roes van verslaving” [www.rug.nl/studium](http://www.rug.nl/studium)

R. KorteKaas Public lectures (twin) Nacht van Kunst en Wetenschap (04-06-2011), about “Near death experiences”, one in Dutch and one in English, Cultureel Studentencentrum Usva, Lustrumbureau RuG.

R. KorteKaas Public lecture (23-12-2010), Anoiksis: schizophrenia patient organisation, “Hoe zien onze hersenen eruit? Hoe maken we plaatjes van onze hersenen en wat zijn de toepassingen bij schizofrenie?”

Open day at the UMCG (20-03-2010), *ca.* 15,000 visitors.

Open day at the NeuroImaging Center Groningen (2007).

R. KorteKaas Brain Awareness Week: two invited lectures at secondary school Kamerlingh Onnes College on Dopamine, reward and addiction (2007).

Open days for secondary schools (5 VWO) 13-05-2008 and 08-06-2010.

R. KorteKaas Brainspotting, “Neurodating”: one on ones with members of the public (2006).