CURRICULUM VITAE

PERSONAL DETAILS

Title and name:	Dr. Lucia M. Talamini
Address:	Javastraat 172 III, 1095 CM Amsterdam
Date and place of birth:	August 24, 1965, The Hague, The Netherlands
Nationality:	Dutch/Italian

EDUCATION

Doctorate

University:	University of Groningen
Date:	March 8, 2000
Supervisor ('Promotor'):	Prof. dr. J. Korf
Title of thesis:	Studies on the pathogenesis of schizophrenia in a neurodevelopmental animal model.

Master's ('Doctoraal')

University/Education:	University of Leiden
Date:	May 16, 1991
Main subject:	Biology (specialisations: Neurobiology – Medical Biology)

WORK EXPERIENCE SINCE GRADUATING

Employment history and functions

February 2007 – now

Assistant professor position, 1 fte, tenure, dept. of Psychology, University of Amsterdam.

Job content: Leading research programs on sleep and memory and programs on memory in psychiatric disorders, including schizophrenia and PTSD. Teaching responsibilities include developing and teaching courses for psychology and psychobiology student, regarding a.o., neuroscience, neuropsychology and specialist topics.

May 2006 – January 2007

Teaching position, 1 fte, fixed-term, dept. of Psychology, University of Amsterdam.

Job content: Teaching various courses for psychology and psychobiology students including: psychophysiology, scientific writing courses, clinical neuropsychology, etc.

November 2004 – April 2006

Research position, 1 fte, fixed-term, dept. of Psychology, University of Amsterdam. Research program on memory consolidation, involving modelling as well as experiments with humans and animals (collaboration with Ole Jensen and Guillen Fernandez, F.C. Donders Centre for Cognitive Neuroimaging, Nijmegen; Jaap Murre, Psychonomics, UvA; Wytse Wadman, Neurobiology,

UVA; Bruce McNaughton, Depts. of Psychology and Physiology, Univ. of Arizona).
Job content: Computational modelling on hippocampal function and hippocampo-cortical interactions underlying memory formation, consolidation and retrieval. Also, experimentation in animals (reversible cooling deactivation: Cryotrode project) and humans on the role of sleep in memory consolidation.
Set up of collaborations with the Psychosis clinic of the AMC, headed by Don Linszen and with Jos van Berkum's group (Max Planck Inst., Nijmegen), with the aim to test model predictions, in schizophrenia.

December 2002 – July 2004

Senior scientist position, 1 fte, tenured, Johnson&Johnson Pharmaceutical Research and Development (a division of Janssen Pharmaceuticals). The position entailed being (1) functional manager of the *in vivo* team of the Psychiatry-I department, involved in drug discovery regarding schizophrenia, cognitive impairment and obsessive-compulsive disorder; (2) head of the cognitive program of the department; (3) disease area representative in the functional genomics (FUGEX) forum.
Job content: Managing a research team consisting of 2 post docs, 4 technicians, 1 PhD student and various graduate students. Identification and validation of new targets for drug treatment. Assessment of mechanism of action and therapeutic potential of putative anti-schizophrenia compounds *in vivo*. Development of appropriate tests, including paradigms that assess memory, attention and latent learning in rodents. Developing various animal models of schizophrenia, including transgenic models. In the context of this function, I was also responsible for the *in vivo* aspects of the drug discovery projects managed by other Psychiatry-I scientists. As a member of the Fugex forum, I was co-responsible for allocation of molecular biology, genomics and bio-informatics resources within J&J PRD Beerse and keeping the disease area informed regarding new techniques in these areas. I managed several collaborations regarding target identification and validation, the development of biomarkers and the role of the MTL in memory and schizophrenia.

February 1999 – November 2002

Post-doctoral research position, 1 fte, fixed-term, dept. of Psychology, University of Amsterdam. Research program on learning, memory and cognitive dysfunctions.
Job content: 1) Neural network research on medial temporal lobe network mechanisms underlying episodic memory (collaboration with M. Meeter and J. Murre, UvA); 2) Neural network research on the origin of episodic memory dysfunctions in schizophrenia and dementia (collaboration with B. Elvevåg and T. Goldberg, NIHM, Washington); 3) Ideation, organization and supervision of a collaborative project on the development of a new reversible deactivation apparatus, the *'Cryotrode'*, to be used in studies on sleep and memory consolidation (collaboration with Fokker Space BV/Dutch Space; Harry Uylings, NIH; Wytse Wadman, Neurobiology, UvA). Techniques encompassed experimentation on rats, such as stereotaxic surgery, histology and *in vivo* electrophysiology, computational modelling (connectionist, mathematical and stochastic modelling) and technical engineering.
Various teaching/supervision responsibilities, including lecturing in the Neuroanatomy course, contributing to scientific writing courses ('VRT2') and supervising research projects of master's students.

1993 – 1999

PhD program, 1 fte, Psychiatry, University Hospital of Groningen. Research on the pathogenesis of schizophrenia, in a neurodevelopmental animal model in the rat.

Job content: Behavioural studies, immunohistochemistry, tracing, *in situ* hybridisation, morphometry, stereology, computerised image analysis, advanced statistics, as well as other techniques and procedures were employed.

Various teaching/supervision responsibilities, including lecturing in various courses and giving practical courses for the Psychiatry department and the Animal Physiology department (Haren, Groningen). Supervision of 1 technician, one graduate student and several masters students.

1992 – 1993

Research position, 1 fte, fixed-term, Experimental Animal Physiology, Dept of Biology, University of Amsterdam. Studies on the expression of various glutamate receptor sub-units, after kindling and long-term potentiation in rats. (Duration: 12 months.)

Job content: Various electrophysiological techniques and *in situ* mRNA hybridisation with radioactively labelled DNA probes.

1990 – 1991

Research position, 1 fte, fixed-term, Research group of Prof. Rita Levi-Montalcini and L. Aloe, Institute of Neurobiology, Rome. Research on the role of nerve growth factor in the central nervous system of the adult rat. (Duration: 20 months.)

Job content: Stereotaxic surgery on rats. Various histological and immunohistochemical techniques and enzyme essays; evaluation of data using computerised image analysis techniques.

Licenses and certifications

- Certification (in 1987) as 'Radioactief werker' (qualification for working with radioactive compounds).
- Certification (in 1986) as 'Artikel 9 medewerker' (qualification for expertise in care and handling of laboratory animals).

TEACHING EXPERIENCE

2004-now. Psychology dept, University of Amsterdam

- Thesis & internship supervision (2004-now)
- Organiser "Brain Slicing Event". Brain dissection workshop for students and other interested parties from the UvA (2011-now).
- Lecturer in CSCA Summerschool on Neuroeconomics, june 2010. 'An introduction to Neuroscience'
- Lecturer on sleep, memory & memory modelling in 'Learning & Memory' course (Psychobiology, 2008-now)
- Highlight lectures on schizophrenia in Introductory Psychobiology course (2008-now).
- Organizer and lecturer in a course on 'Neuroscience' (lectures and practical training, Psychology, 2007-now)

- Co-organizer and lecturer in a Biological Psychology course (Psychology, 2007-now)
- Lecturer on sleep and memory in course on Seep and Sleep disorders (Psychology, 2011-now).
- Lecturer on schizophrenia in Neuropsychology course (Psychology, 2006-2012)
- Co-organizer and lecturer in a course on 'Introduction to Brain and Behaviour' (Psychobiology, module 010/011, 2006)
- Interactive lectures on psychophysiology ('werkcolleges' with module 010, Psychobiology, 2006)
- Interactive lectures on psychophysiology ('werkcolleges' with module PS201, Psychobiology, 2006)
- Scientific writing courses (VRT1 part-timers course, Psychology, 2005)
- Practical courses on research methodology (OP, Psychology)

2002-2004. Johnson&Johnson Pharmaceutical Research and Development
- Supervision of masters student's research projects (each year, the company offered top universities the possibility to place a small number of masters students on research projects. My group hosted about 4 students each year).

1999-2002. Psychology dept, University of Amsterdam
- Lecturing in Neuroanatomy course (Psychology).
- Scientific writing course (VRT2, Psychology).
- Supervising research projects of master's students.

1993-1999. Psychiatry, University Hospital of Groningen
- Lecturing in various courses.
- Organising advanced practical lab courses for the Psychiatry department and the Animal Physiology department (Haren).
- Supervising research projects of master's students.

Teaching elsewhere
- EPOS workshop Learning and Memory: of Mice and Men, 24 oct, (2011-now).
- Lecturer on schizophrenia in 'ONWAR - Cognitive Neuroscience' course, Amsterdam (2009-now).
- Lecturer on computational memory modelling in course on 'Cognitive Neuroscience of Memory', at Donders Institute, Nijmegen (2008-now).
- Lecturer on Schizophrenia Modelling at Summerschool, Groningen (2000).

MAIN RESEARCH THEMES AND COLLABORATIONS

1. Memory reorganisation over time and sleep

Research line carried out in the context of an ongoing VIDI project: "Sleep and memory; cleaning up the hard disk". The project is embedded in a long-standing collaboration on Memory Consolidation, involving a.o. W. Hofman (UvA), O. Jensen, G. Fernandez and A. Takashima (Donders centre, Nijmegen) and, formerly, B. McNaughton (Depts. of Psychology and Physiology, Univ. of Arizona). The program involves studies on memory consolidation and the role of sleep therein. Adopted techniques include neuropsychological testing, EEG, fMRI and computational neural network modelling. All participants are accomplished in the field of memory and memory consolidation or in sleep research. The consortium as a whole represents vast multidisciplinary expertise regarding all aspects and levels of this field of

research. Several projects below are related to this program.

2. Keeping emotional memories at bay: From molecule to patient

Emotional memory lies at the core of many psychiatric disorders. If emotional memory could be kept at bay, we might be able to eliminate the root of many psychiatric disorders. This interdisciplinary research program tests novel hypotheses on the consolidation, modification and extinction of emotional memory and on the role of sleep in these processes. Basic research on emotional memory in animals and humans will be translated to patients suffering from posttraumatic stress disorder, aiming for novel clinical applications. Collaborators: Kindt, M. (dept of psychology, UvA), Joels, M. (Rudolf Magus Institute of Neuroscience, UMC), Olff, M. (dept of Psychiatry, AMC), Krugers, H. (SILS, UvA), Battaglia, F. (SILS, UvA), Denys, D. (dept of Psychiatry, AMC), Van Stegeren, A. (dept of psychology, UvA), Raaijmakers, J. (dept of psychology, UvA).

3. Sleep problems and emotional memory dysfunction in PTSD

Disturbed sleep is a key symptom of posttraumatic stress disorder (PTSD) and may contribute to its genesis and maintenance. Our studies in healthy subjects, suggests that adaptive changes occur in sleep architecture after emotional experiences, which benefit emotional housekeeping and the attenuation of emotional responses to negative emotional experiences. Little is known, however, about the relation between sleep and emotional memory processing in PTSD. As part of project 2 (above), a collaboration of my group with Stichting Centrum 45, Oegstgeest and the Centre for Psychological Trauma at the Amsterdam Medical Centre investigates the role of sleep in emotional memory processing in PTSD patients. Collaborators: M. Olff and M. Nijdam (Centre for Psychological Trauma, Dept. of Psychiatry, Amsterdam Medical Centre), M. de Boer and W. Hofman (Brain and Cognition, Dept. of Psychology, Univ. of Amsterdam), R. Jongedijk (Centrum 45, Oegstgeest).

4. Sleep disturbance and emotional regulation

In this project, the role of sleep in emotional regulation is addressed from both a fundamental and clinical perspective. An important aim is to elucidate brain mechanisms underlying the elevated risk that people with insomnia have to develop depression. Collaborators: E. van Someren (Netherlands Institute for Neuroscience, Dept. Sleep & Cognition, Amsterdam), F. Schalkwijk (psychologist and psychoanalyst, Amsterdam).

5. MEG-EEG research on the spatiotemporal dynamics of sleep

This project brings together specialists on MEG, sleep electrophysiology and the role of sleep in cognition. The purpose is to use the superior localizing properties of MEG to further elucidate the spatiotemporal aspects of sleep electrophysiology, both with respect to fundamental sleep physiology and in relation to the role of sleep in memory processing. Collaborators: M. Schabus (Salzburg University), O. Jenssen (Donders centre for Cognitive Neuroimaging, Nijmegen) and others.

6. Investigations on hippocampal subfield coding of emotional memory

High-resolution fMRI23 and multivariate data analysis24-26 are applied to assess the influence of emotion and sleep on memory encoding at the level of hippocampal subfields. A central hypothesis is that strong negative emotion and sleep problems may compromise feature integration and pattern separation in this circuitry, possibly leading to highly persistent, overgeneralised emotional memory representations. Such a mechanisms may lay at the root of affective pathologies such as PTSD.

Collaborators: B. Staresina (University of Cambridge), S. Scholte (director Spinoza Centre for Neuroimaging, Amsterdam)

7. Memory function in mediotemporal lobe networks
Long-standing line of research in which multiple computational neural network models, scaled at different levels of biological detail, address memory function in the mediotemporal lobe. The more detailed networks address hypotheses at the neural network level, while in the higher-level models, computational resources are dedicated to modelling interactions between larger parts of the brain, forsaking some biological detail; in the latter models, network mechanisms are related to behaviour, while congruence with knowledge derived from lower level models is maintained. The models provide, often original, insights into normal and abnormal memory function. Their predictions are tested in healthy humans and patients (see e.g. point 5). Collaborators: M. Meeter (Cognitive Psychology, VU), J. Lisman (Brandeis Univ., USA), A. Raffone (Sunderland Univ., UK) and J. Murre (Psychonomics, UVA).

8. International exchange on Sleep and memory
This long-term collaboration between a number of prominent groups in sleep and memory research fosters regular meetings serving knowledge exchange, education of master and PhD students and experimental collaboration. Principal scientists: L.M. Talamini (university of Amsterdam), S. Gais (Ludwig-Maximilians-University, Munich), Manuel Schabus (Salzburg University), H. Mölle (Lübeck University), J. Born (University of Tübingen), B. Rasch (Université de Fribourg).

Past international collaborations:

1. Memory deficits in schizophrenia
The collaboration brought together theoretical and experimental research from neurobiology and clinical psychology for studying the neural origin of memory dysfunction in schizophrenia.
Collaborators: T. Goldberg and B. Elvevag (Clinical Brain Disorders Branch, NIMH, Washington DC), M. Meeter and J. Murre (Psychonomics, UVA).

GRANTS

- NWO conference grant, 2013. With R. Cox.
- BIAL foundation research fund, 30 Nov 2012. "REM-sleep, the regulation of self-conscious emotion and hyperarousal in psychophysiological insomnia".
- KNAW conference grant, 2012. With M. Rangel-Gomez and M. Meeter.
- ALW open round PhD grant, NWO 2009. "The lifetime of memories: neural network signatures of reconsolidation and cortico-hippocampal communication" (ALW2PJ/09067). Co-applicant with F. Battaglia.
- CSCA Cognition Program grant, UvA 2009. "Toward an integrated model of semantic memory formation: from brain to behavior" With R. Bod, F. Battaglia. Marked as awardable.
- CSCA Cognition Program grant, UvA 2009. "Keeping emotional memories at bay: From molecule to patient". With M. Kindt, M Joels, M. Olff, H. Krugers, F. Battaglia, D. Denys, A. van Stegeren, J. Raaijmakers.
- VIDI grant, NWO 2008. "Sleep and memory consolidation: cleaning up the hard disc", (016.095.358).

- VIDI grant, NWO 2006. "Long-term memory: static maintenance or dynamic reorganisation?" (016.075.371). Marked as awardable.
- VIDI grant, NWO 2005. "The stuff dreams are made of" (016.065.369). Marked as awardable.
- ALW open round PhD grant, NWO 2003 "Relation between structure and function in hippocampal information processing" (ALW2PJ/06001). With G. Ramakers and H. Krugers. Marked as awardable.
- MAGW Personal Postdoc Fund, NWO 2001. "Neural network dynamics underlying learning and memory; a combined computational and experimental approach."
- Short-term fellowship from EC thematic network Neuroinformatics and Computational Neuroscience, 2001. "Episodic sequences and autoassociative memory in hippocampal networks: the role of reciprocal dentate-CA3 interactions", With A. Raffone and J. Lisman.
- Grant for visiting summerschool, Univ. Of Kuopio, 2000.
- Travel fund, Walree fonds, 1994.
- Erasmus educational travel fund, Leiden University, 1990.

MANAGEMENT FUNCTIONS

- Board member Onderzoeksschool Neurowetenschappen Amsterdam Rotterdam (ONWAR) (2011-now).
- Programma raad NTR schooltelevisie (2011-now).
- Management team Brain and Cognition Division, Psychology dept. (2010-now).
- Project leader on VIDI project "Sleep and memory; cleaning up the hard disc" (2009-now).
- Member of 'Research Master Committee', responsible for the educational program for the UvA Research Master (2007-now).
- Project leader on the Cryotrode project, a technical development program involving several groups from academia and industry (1999-2002; 2004-2006).
- Disease area representative in the Functional Genomics Forum (FUGEX) at Johnson&Johnson Pharmaceutical Research and Development, Janssen Pharmaceuticals (2002-2004).
- Head of the 'Cognition Program' of the Psychiatry-ONE department at Johnson&Johnson Pharmaceutical Research and Development, Janssen Pharmaceuticals (2002-2004).
- Head of the Psy-ONE In vivo team at Johnson&Johnson Pharmaceutical Research and Development , Janssen Pharmaceuticals (2002-2004).

OTHER ACADEMIC ACTIVITIES (memberships and functions)

Promotorships/graduation committees

- Co-promotor for Rick Wassing. Research project on the role of sleep in emotional regulation. UvA/NIN collaboration, project in progress.
- Co-promotor for Carly Sweegers. Research project on memory generalization over time and sleep. UvA, December 2, 2014.
- Co-promotor for Roy Cox. Research project on the mechanisms underlying sleep-related information(re)processing. UvA, June 19, 2014.
- Member of dissertation committee for Henrique Cabral. Dissertation: "NMDA receptor-dependent functions of hippocampal networks in spatial navigation and

memory formation", May 9, 2014.
- Member of dissertation committee for Eelco van Dongen. Dissertation: "Sleeping to Remember. On the neural and behavioral mechanisms of sleep-dependent memory consolidation", May 17, 2013.
- Member of dissertation committee for Saskia Haegens. Dissertation: "On the functional role of oscillatory neuronal activity in the somatosensory system", March 26, 2012.
- Member of dissertation committee for Ingrid Nieuwenhuis. Dissertation: "Memory consolidation: a process of integration. Converging evidence from MEG, fMRI and behaviour", June 28, 2010.
- Co-promotor for Marco Fiore. Dissertation: "Cerebral neurotrophins and behavioral aspects of a neurodevelopmental model of schizophrenia", 2004, Dept of Biological Psychiatry, Faculty of Medical Sciences, Groningen.

Organisation of meetings, workshops & symposia
- Organiser "Neural mechanisms linking sleep and memory". Amsterdam, June 18th, 2014. With R. Cox.
- Organiser "Brain Slicing Event". Brain dissection workshop, held on various dates in Amsterdam. With various UvA student organisations and colleagues of the Biology dept. (2011-now)
- Organiser "Amsterdam Memory Slam". International conference on memory, held in Amsterdam. First meeting on August 30-31, 2012. With M. Meeter. C. Sweegers, M. Rangel-Gomez, J. Schomaker. Second meeting on August 22-23, 2013.
- Organiser symposium on "Categorization, generalization, schema and memory consolidation". Conference on Memory, York, July 31st -August 5th, 2011. With A. Takashima.
- Organiser "Learning and Memory in Amsterdam", annual national meeting with varying locations. Kick-off September 29th, 2010. 2nd meeting October 24th, 2011. With M. Meeter. (This meeting developed into the international Amsterdam Memory Slam, see below.)
- Organizer of workshop on 'Understanding episodic memory: contributions from human and animal research', EndoNeuro Meeting, 2002.
- Organizer of workshop on 'Hippocampal modelling' at the Computational Neuroscience Meeting, California, 2001.
- Initiator and organizer of bi-weekly departmental research meetings, spanning the clinical and preclinical branch of the department (1994-1999).

Editorial Board memberships / Reviewing
- Editorial Board Member of 'The Open Behavioral Science Journal', Bentham Science Publishers (2009-now).
- Ad hoc reviewer for Behavioral and Brain Sciences; Cerebral Cortex; European Journal of Neuroscience; European Journal of Psychotraumatology; Hippocampus; Journal of Cognitive Neuroscience; Journal of Neuroscience; Learning and Memory; Neuroscience and Biobehavioural reviews; Neuroscience Letters; PLOS ONE; Trends in Cognitive Science, e.a.

Committees and associations
- Program council of the NTR, Dutch educational broadcasting company (public television).

- Board of the Onderzoeksschool Neurowetenschappen Amsterdam Rotterdam (ONWAR)
- Management team Brain and Cognition Division, Psychology dept.
- Research Master Committee, responsible for the educational program for the UvA Research Master.
- Dutch Neurofederation.
- European Sleep Research Society (ESRS).
- Society for Neuroscience (SFN)

Educational seminars, media appearances and publications
(Selected items)

- Key-note lecture: "Hersenontwikkeling in de klas" Lerarencongres (georganiseerd door de Onderwijscoöperatie), Den Bosch, 8 oktober, 2014.
- Key-note lecture: "Breincentraal leren: van hersenonderzoek naar klaslokaal" Lerarencongres (georganiseerd door de Onderwijscoöperatie), Ede, 8 oktober, 2013.
- Lezing: "Geheugen implantatie" en lab demonstraties voor het "Weekend van de Wetenschap" (Nationaal evenement waarbij de beste labs van Nederland hun deuren openen voor het brede publiek en top onderzoekers lezingen geven over hun werk.) 5 oktober, 2013.
- Volkskrant (27-7-2013). "Slapend slim".
- "Human evolution: are we getting dumber?" Invited lecture at International VSPA conference on 'Evolutionary Psychology', 9-10 April 2013, Amsterdam.
- KIJK magazine, nr 8, 2013. "Inception in het echt".
- Hoe?Zo! radio, NTR. 24 Jan 2013. 20.00 PM. Interview over "Emotioneel slapen".
- EOS – Maandblad over wetenschap, nr 10, oktober 2012, pp 50-53. "Slapend leren".
- NRC (25-9-2012). "Veel slapen houdt de dokter weg".
- Bessensap (Media event on recent scientific development). Lezing: "Geheugen implantatie" Den Haag, 4 Juni 2012.
- Lezing voor het Expertise Centrum voor Journalistiek: "Het Geheugen Theorie en Praktijk". Hilversum, Oktober, 2011.
- Lezing voor Landelijke vereniging van eerste lijnspsychologen: "Episodic processing deficits in schizophrenia: Is it all in the context?" Amsterdam, 4 oktober, 2010.
- Wetenschapscafé, Teleac/NOS, 2 april 2010. Interview over gefragmenteerde perceptie in Schizofrenie.
- BNN nieuws, 31 maart 2010. Interview over de cognitieve gevolgen van hersenabnormaliteiten in schizofrenie.
- NRC (04-01-2010). "Schizofrenen zien geen samenhang in de wereld."
- Schizofrenie Bulletin (03-31-2010). "Schizofrenie veroorzaakt door afwijkende hersenstructuur".
- De Volkskrant (03-31-2010). "Schizofrenen hebben echt een afwijkende hersenstructuur."
- Lezing voor Teleac symposium "Naar een nieuwe didactiek". Hilversum, 15 Oktober, 2009.
- Lezing & workshop voor VMBO en MBO docenten Horizon College. "Over leren en geheugen" Hotel Blooming, Bergen aan Zee, 11 februari, 2009.
- Lezing voor opening IIS honours jaar. "Hoge hakken echte wetenschap." Doelenzaal, Amsterdam, 6 oktober 2008.
- Lezing voor management van het ROC Horizon College in Alkmaar, HHW en Hoorn. "Het Geheugen van Theorie naar Praktijk". Rechte Hondsbosschelaan 24,

Heiloo, 16 april 2008.
- Lezing op het 'Learning Lane Festival' (onderdeel: 'De Nachtacademie'). "Het hoe-wat-waar van leren en geheugen" De Baak, NVO2 en Landgoed de Horst, 26-28 augustus 2007. Info festival: www.learninglane.nl. Lezing on-line: www.mefeedia.com/search/nachtacademie.
- Interview. Programma: 'Harry Starren in gesprek…', (Persoonlijk gesprek) BNR-nieuwsradio, juni, 2007.

SCIENTIFIC CONTRIBUTIONS

Dissertation

Studies on the Pathogenesis of Schizophrenia in a Neurodevelopmental Animal Model (2000). Dept of Biological Psychiatry, Faculty of Medical Sciences, Groningen.

Registered clinical research

M. de Boer, M.J. Nijdam, W.F. Hofman, M. Olff & **L.M. Talamini**. The role of sleep in emotional memory processing and neurocognitive functioning in patients with posttraumatic stress disorder. CCMO-register, 2012.
https://www.toetsingonline.nl/to/ccmo_search.nsf/fABRpop?readform&unids=C1257BA2002CC066C12579A60039D4BD

Refereed articles

- Roy Cox, Joram van Driel, Marieke de Boer & **Lucia M Talamini.** Slow oscillations during sleep coordinate interregional communication in cortical networks. J. Neurosci, 2014, 34(50):16890 –16901.

- Carly C. G. Sweegers & **Lucia M. Talamini**. Generalization from episodic memories across time: a route for semantic knowledge acquisition. Cortex, 2014, Jul 24;59C:49-61.

- Roy Cox, Winni F. Hofman, Marieke de Boer & **Lucia M. Talamini**. (2014) Local sleep spindle modulations in relation to specific memory cues. Neuroimage, Oct;99: 103–110.

- Cox R, Korjoukov I, de Boer M & **Talamini LM** (2014). Sound asleep: Processing and retention of slow oscillation phase-targeted stimuli. PLoS One 9(7), e101567.

- Roy Cox, Ron R Tijdens, Martijn M Meeter, Carly CG Sweegers & **Lucia M Talamini**. (2014) Time, not sleep, unbinds context from item memory. PLoS ONE, Feb 3;9(2):e88307.

- Carly C.G. Sweegers, Atsuko Takashima, Guillén Fernández & **Lucia M. Talamini**. (2014) Neural mechanisms supporting the extraction of general knowledge across episodic memories. NeuroImage Feb 15;87:138-46.

- **Lucia M. Talamini**, Laura F. Bringmann, Marieke de Boer & Winni F. Hofman. (2013) Sleeping worries away or worrying away sleep? Physiological evidence on sleep-emotion interactions. PLoS ONE 8(5): e62480.

- Tielemans NS, Hendriks MP, **Talamini L**, Wester AJ, Meeter M, Kessels RP (2012). Facilitation of memory by contextual cues in patients with diencephalic or medial temporal lobe dysfunction. Neuropsychologia 50(7):1603-8.

- Roy Cox, Winni F. Hofman & **Lucia M. Talamini** (2012). Involvement of spindles in memory consolidation is slow wave sleep-specific. Learn Mem. 19(7):264-7.

- **Lucia M. Talamini** and Eva Gorree (2012). Ageing memories: differential decay of episodic memory components. Learning and Memory. Learn Mem. 19(6):239-46.

- Roy Cox, Winni F. Hofman & **Lucia M. Talamini** (2011). Retention-dependent increases in sleep spindle density: a specific SWS phenomenon. Sleep-Wake Research in the Netherlands, 22, 48-51.

- Laura F. Bringmann, Winni F. Hofman & **Lucia M. Talamini** (2011). The effect of emotional stimuli on sleep architecture in healthy subjects. Sleep-Wake Research in the Netherlands, 22, 40-43.

- **Lucia M. Talamini,** Lieuwe de Haan MD, , Dorien H. Nieman, Don H. Linszen, Martijn Meeter. (2010) Reduced context effects on retrieval in first-episode schizophrenia. PloS ONE, 5(4):e10356.

- **Talamini, L. M.**, Sweegers, C. C., & Hofman, W. F. (2010). Daytime napping and emotional and declarative memory. In T. de Boer, V. van Kasteel, B. Koch, G. van Luijtelaar & J. Verbraecken (Eds.), Sleep-Wake Research in the Netherlands (Vol. 21, pp. 136). Leiden.

- Hofman, W. F., Cox, R., & **Talamini, L. M.** (2010). Effects of an emotional film on sleep EEG: relation with emotional attenuation over sleep. In T. de Boer, V. van Kasteel, B. Koch, G. van Luijtelaar & J. Verbraecken (Eds.), Sleep-Wake Research in the Netherlands (Vol. 21, pp. 128). Leiden.

- **Talamini L.M.** and Meeter M. (2009) Dominance of objects over context in a mediotemporal lobe model of schizophrenia. PloS ONE, 4(8):e6505.

- Atsuko Takashima, Ingrid Nieuwenhuis, Ole Jensen, **Lucia Talamini**, Mark Rijpkema, Guillen Fernandez. (2009) Shift from hippocampal to neocortical centered retrieval network with consolidation. J. Neurosci., 29(32):10087-93. I.f. 8.2

- **Lucia M. Talamini**, Ingrid L.C. Nieuwenhuis, Atsuko Takashima and Ole Jensen. (2008) Sleep directly following learning benefits consolidation of spatial associative memory. Learning and Memory. 15(4):233-7. *I.f. 5.2*

- Meeter M., Riedel W., Schmitt, **Talamini L.M.** (2006) Effects of 5-HT on memory and the hippocampus: model and data. Neuropsychopharmacology 31(4):712-20. *I.f. 6.3*

- Lisman JE, **Talamini LM**, Raffone A. (2005) Recall of memory sequences by

interaction of the dentate and CA3: A revised model of the phase precession. Neural Netw. 18: 1191-1201. *I.f. 2.6*

- **Talamini L.M.**, Meeter M., Elvevåg B., Murre J.M.J., & Goldberg T.E. (2005) Reduced parahippocampal connectivity produces schizophrenia-like memory deficits in simulated neural circuits. Archives of General Psychiatry, 62: 485-493. *I.f. 16.0*

- Meeter M., Murre J.M. J. and **Talamini L.M.** (2004) Mode shifting between storage and recall based on novelty detection in oscillating hippocampal circuits. Hippocampus, 14, 722-41. *I.f. 5.7*

- **Talamini L.M.**, Meeter M. and Murre J.M.J. (2003) Combating fuzziness with computational modeling. Behavioral and Brain Sciences, 26, 107-108. *I.f. 17.3*

- Meeter M., Murre J.M. and **Talamini L.M.** (2002) A computational approach to memory deficits in schizophrenia. Neurocomputing, 44, 929-936. *I.f. 0.9*

- Fiore M, Korf J, Antonelli A, **Talamini L**, Aloe L. (2002) Long-lasting effects of prenatal MAM treatment on water maze performance in rats: Associations with altered brain development and neurotrophin levels. Neurotoxicol Teratol., 24, 179-191. *I.f. 2.7*

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- Pieter F. Wassing, Jeroen S. Benjamins, Kim Dekker, Sarah Moens, **Lucia M. Talamini**, Matthew P. Walker, Frans Schalkwijk, Eus J.W. Van Someren. Slow dissolving of emotional distress contributes to hyperarousal. Sleep, under review.

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- Lecture at 2nd Winter-Symposium "Sleep, Cognition and Consciousness" (Salzburg, 22-25 Januari, 2014). "Interregional communication in sleeping cortical networks"

- Chair: symposium on Learning, Memory and Cognition. ESRS, 16–22 Sept. 2014, Tallinn, Estonia.

- Lecture at ISTSS (International Society for Traumatic Stress Studies), November 6-8, Miami 2014. "Sleep and the processing of emotional memories" (Not accepted in view of other obligations.)

- Presentation at symposium: The Impact of Great Wars and Beyond; Medical and Military Psychotraumatology: Past, Present and Future. "Sleep Disturbances and Emotional Memory Processing in police and military personnel with PTSD" Mei 22,

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- Lecture at Functional Architecture of Memory (FAM) conference. May 21-23, 2014, Ruhr University Bochum, Germany. "Neural mechanisms underlying memory consolidation during sleep".

- Plenary lecture, SFB Meeting on Sleep and Plasticity. March 18 2014, Tübingen. "Memory processing during sleep; from brain to behaviour"

- Lecture at ESCAN (European society for cognitive and affective neuroscience). 7-10 May, 2014, Dortmund. "Sleep and the processing of emotional memories" (Not accepted in view of other obligations.)

- Key-note speaker at International VSPA conference on 'Evolutionary Psychology', 9-10 April 2013, Amsterdam. "Human evolution: are we getting dumber?"

- Lecture at conference on 'Sleep, Cognition and Consciousness', 13-14 Dec 2012, Salzburg. "Local sleep spindles reflect the reprocessing of specific memories".

- Lecture at Centrum 45, Oegstgeest. "The role of sleep in emotional memory disturbance in PTSD". April 12, 2012.

- Lecture at CSCA Summerschool on Neuroeconomics, June 2010. "An introduction to Neuroscience"

- Lecture for LVE (Landelijke Vereniging van Eerste Lijnspsychologen). "Episodic processing deficits in schizophrenia: Is it all in the context?". October 4, 2010.

- Netherlands Institute for Neuroscience, Amsterdam. Lecture: "Effects of sleep on episodic memory: Consolidation of the fittest". November 2007.

- FC Donders Symposium. "Memory consolidation". July 2007.

- FC Donders Symposium. "Memory modelling". October 2006.

- Centre for Molecular and Behavioral Neuroscience, Rutgers University, Newark, USA. November 8, 2002. Lecture: "Modeling schizophrenia: A combined animal and computational approach".

- Novartis Foundation discussion meeting on "Animal models of schizophrenia". Portland Place, London W1, May 27, 2002. Lecture: MAM, social isolation and hippocampal lesion models.

- Leiden University. April 10, 2002. Lecture: Shifting between learning and retrieval dynamics by acetylcholine and novelty detection in hippocampal model circuits.

- University of Bremen, "Neurocognition Lecture Series". January 28, 2002. Lecture: Memory deficits in schizophrenia; a computational approach.

- Dept. of Neuropsychology, Montreal Neurological Institute, McGill University, Montreal, Canada. January 11, 2002. Lecture: Connectionist models of medial temporal lobe functioning related to episodic memory and schizophrenia.

- Conti center meeting on "The role of dopamine and NMDA channels in hippocampal sequence recall: implications for schizophrenia" at Brandeis University, Waltham, MA, USA. Jan 8-9, 2002. Lecture: Antonino Raffone (Sunderland) and Lucia Talamini (Amsterdam): A network model of recall in the hippocampus: NMDA-mediated epsp's may be important at sequence crossings.

- Leiden University. November 23, 2001. EPOS course on: 'Memory and network models'. Lecture: Episodic memory; a connectionist account.

- "AIO dagen Psychiatrie", Zandvoort, 2000. Presentation: An animal model for developmental disorder: implications for schizophrenia.

- Institute of Neurobiology, CNR, Rome, Italy, july 2000. Lecture: Animal models in schizophrenia.

- NIMH, Washington, October 1999. Lecture: Schizophrenia and Neurodevelopment.

- BCN summerschool entitled "Another Vision of the Brain", Groningen, 1999. Lecture: Neurodevelopment and Schizophrenia.

- Conference: "The Parahippocampal Region: Basic Science and Clinical Implications", NY Acad. Sci., Baltimore, ML, 1999. Lecture: Malformation of frontal and parahippocampal association areas in a possible rat model of schizophrenia.

- "Schizophrenia and neurodevelopment: MRI data and possible implications of neurotrophins", Rome, Italy, 1998. Lecture: Interference with neurogenesis in the mediotemporal lobe of the rat: a possible model of schizophrenia.

Conference contributions

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- W.F. Hofman, M. de Boer, M.J. Nijdam, R.A. Jongedijk, M. Olff, **L.M. Talamini**.
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