

PERSONAL DETAILS

First name: Federica
Surname: Calcagnoli
Gender: Female
Nationality: Italian

Place and date of birth

Contact address:

Tel.:

Email:

Skype:

EDUCATION

2009 — 2014 Ph.D. in Behavioural and Cognitive Neurosciences, Department of Behavioral Physiology, University of Groningen, The Netherlands
Thesis: 'Oxytocin: the neurochemical mediator of social life'.
ISBN: 978-90-367-72624.
Advisors: Prof. J.M. Koolhaas, Dr. S.F. de Boer, Dr. M. Althaus

2004 - 2009 M.Sc. in Chemistry and Pharmaceutical Technologies (cum laude). Dept. of Pharmacology, University of Camerino, Italy and Dept. of Neuroendocrinology, University of Groningen, The Netherlands.
Thesis title: Food intake and metabolism: effects of olanzapine, topiramate, or their combination.
Advisors: Prof. R. Ciccocioppo, Dr. Carlo Polidori, Prof. A.J.W. Scheurink, Dr. S.S. Evers

WORK EXPERIENCE

2014 - Present Co-ownership, Pharmacy Dr. Calcagnoli s.a.s, Monte Urano, Italy

2012 4-month collaboration project at the Department of Behavioral and Molecular Neuroscience, University of Regensburg, performing in situ hybridization and radioreceptor autoradiography
Advisors: Prof. I.D. Neumann, Dr. D.I. Beiderbeck

2007 - 2008 Internship, Pharmacy Dr. A. Pioli, Francavilla d'Ete, Italy

TEACHING EXPERIENCE

2010 -2014 Mentoring undergraduate and graduate students.
Bachelor thesis (6-month full time), University of Groningen: Lars Overweg, Kevin Ike

Master thesis (9-month full time), University of Groningen: Christine Stubbendorff, Neele Meyer, Silvia Paterlini, Judith Kreutzmann

2011 -2013 'Maybe is not just a spray', invited lecture integrated in the annual master course Neuroendocrine Basis of Behaviour, University of Groningen, The Netherlands

2011 -2013 'Oxytocin, the molecule of sociality', invited lecture integrated in the annual bachelor course Minor Neuroendocrine, University of Groningen, The Netherlands

COURSES

2015 First aid and safety training course (with certificate), Federfarma Ascoli, Altidona, Italy

Medical management of Hyperglycemia in type 2 Diabetes, Federfarma Ascoli Piceno, Italy

2012 Project Management for Scientific Research, Graduate School of Science (GSS), University of Groningen, The Netherlands

2011 Statistic course, Graduate School of Science (GSS), University of Groningen, The Netherlands

EEG course, Graduate School of Science (GSS), University of Groningen, The Netherlands

2010 Neuroanatomy course, Graduate School of Science (GSS), University of Groningen, The Netherlands

Laboratory Animal Science, Graduate School of Science (GSS), University of Groningen, The Netherlands (certificate art. 9)

SKILLS

ANIMAL HANDLING AND EXPERIMENTS

Animal handling and nurturing (rats, short- and long-term studies)

Behavioral observation and analysis: resident-intruder test, partner-preference test, open field test

Intravenous and intragastric glucose tolerance test

Microdialysis

Biotelemetry measurements

Administration of drug: intranasal, brain infusion, oral, intravenous, intraperitoneal, subcutaneous

Sampling: cerebrospinal fluid from cisterna magna, blood via tail vein and heart puncture, urine

Administration of humane end-points
Tissue collection including brain extraction
Perfusion
Autopsy

SURGERY

- Stereotactic microsurgery
Gastric cannula implantation
- Mini-pump implantation
Ovariectomy o Implantation of
radiotelemetry transmitter

LABORATORY SKILLS

- Brain fixation and slicing
- o Immunochemistry
In situ hybridization
Receptor autoradiography
Light and confocal microscopy
High-performance liquid chromatography

OTHER SKILLS

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| SOFTWARES | Microsoft Office programs
Graphic design and Image processing (Origin, Sigma Plot, Prism, Image J, Photoshop)
Statistical software (Spss, STAT)
Recording and analysis of behavioral and physiological parameters (Observer, Eline, CARDIA)
Reference Manager (EndNote) |
| LANGUAGES | Italian: native speaker
English: high proficiency
Dutch: beginner
Spanish: beginner |

PROFESSIONAL AFFILIATION

Dutch Neurofederation

AWARD AND SCHOLARSHIP

2012 Award for the best oral presentation at 10th International Society for aggression (ISRA),
"Oxytocin & offensive aggression in feral male rats: individual variability and brain sites of action"
2008 - 2009 Erasmus scholarship, University of Camerino, Italy

INVITED LECTURES

- 2014 'Oxytocin: the mediator of social life. A pharmaco-behavioral and neurobiological study in male rats'. CBN seminar, University of Groningen, The Netherlands
- 2013 'Brain Oxytocin and Male Aggression: an Intimate Inverse Relationship'. Department of Psychology, University of California, Davis, CA
- 'Oxytocin & offensive aggression in feral male rats: individual variability and brain sites of action', International Conference on Individual Differences (KNDV), Groningen, The Netherlands
- 2012 'Oxytocin & offensive aggression in feral male rats: individual variability and brain sites of action'. 10th International Society for Research on Aggression (ISRA), Luxembourg

LIST OF PUBLICATIONS

NS

- 2016 Althaus M, Groen Y, Wijers AA, Noltes H, Tucha O, Sweep FC, Calcagnoli E Hoekstra PJ. Do blood plasma levels of oxytocin moderate the effect of nasally administered oxytocin on social orienting in high-functioning male adults with autism spectrum disorder? Psychopharmacology (under revision)
- 2015 Calcagnoli F, Kreutzmann CJ, de Boer SF, Althaus M, Koolhaas JM. Acute and repeated intranasal oxytocin administration exerts anti-aggressive and pro-affiliative effects in male rats. Psychoneuroendocrinology, 51: 112-121.
- Calcagnoli F, Stubbendorff C, Meyer N, de Boer SF, Althaus M, Koolhaas JM. Oxytocin microinjected into the central amygdaloid nuclei exerts antiaggressive effects in male rats. Neuropharmacology, 90:74-81.
- 2014 Calcagnoli E, Meyer N, de Boer SF, Althaus M, Koolhaas JM. Chronic enhancement of brain oxytocin levels causes enduring anti-aggressive and pro-social explorative behavioral effects in male rats. Hormones and Behavior, 65(4):427-
- Calcagnoli F, de Boer SF, Beiderbeck DI, Althaus M, Koolhaas JM, Neumann ID. Local oxytocin expression and oxytocin receptor binding in the male rat brain is associated with aggressiveness. Behaviour/ Brain Research, 261: 315-322.
- 2013 Calcagnoli E, de Boer SF, Althaus M, den Boer JA, Koolhaas JM. Antiaggressive activity of central oxytocin in male rats. Psychopharmacology, 229 (4): 639-651.

2010 Evers SS, Calcagnoli F, van Dijk G, Scheurink AJ. Olanzapine causes hypothermia, inactivity, a deranged feeding pattern and weight gain in female Wistar rats. Pharmacology Biochemistry and Behavior, 97 (1): 163169.

BOOK

2014 Calcagnoli F. 'Oxytocin: the mediator of social life. A pharmaco-behavioral and neurobiological study in male rats.'
ISBN: 978-90-367-72624.
<http://irs.ub.rug.nl/ppn/381337065>

SCIENTIFIC COMMUNICATIONS

ATIONS

- 2014 'Brain Oxytocin and Male Aggression: an Intimate Inverse Relationship'. 9th Federation of European Neuroscience Societies (FENS), Milan, Italy
- 2013 'Brain Oxytocin and Male Aggression: an Intimate Inverse Relationship'. Society for Neuroscience (SfN), San Diego
- 'Brain Oxytocin inhibits offensive aggression in male rats'. 10th World Congress of Neurohypophysial Hormones (WCNH), Bristol
- 'Acute and Chronic Oxytocin Treatment in feral male rats'. 9th Dutch EndoNeuro-Psycho Meeting (ENP), Lunteren, The Netherlands
- 2012 'Brain Oxytocin modulates male aggression'. 8th Dutch Endo-Neuro-Psycho Meeting (ENP), Lunteren, The Netherlands
- 'Oxytocin & Aggression: What? Where? How?'. 9th Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany
- 'Oxytocin in the brain of aggressive male rats'. 8th Federation of European Neuroscience Societies (FENS), Barcelona, Spain

REFERENCES

Prof. Jaap M. Koolhaas; j.m.koolhaas@rug.nl

Department of Behavioral Physiology, University of Groningen, The Netherlands

Dr. Sietse F. de Boer; s.f.de.boer@rug.nl

Department of Behavioral Physiology, University of Groningen, The Netherlands

Dr. Monika Althaus; m.althaus@accare.nl

Department of Psychiatry, University Medical Center Groningen, The Netherlands