## **PERSONAL DETAILS**

First name:

Surname:

Federica Calcagnoli

Gender Nationality

Place and date of birth

Contact address:

Tel.: Email: Skype: Female Italian

**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: 978-90-367-7262-4.

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

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,

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
- Implantation of radiotelemetry transmitter

### LABORATORY SKILLS

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

# OTHER SKILLS

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 10<sup>th</sup> 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

'Oxytocin & offensive aggression in feral male rats: individual variability and brain sites of action'. 10<sup>th</sup>International Society for Research on Aggression (ISRA), Luxembourg

### LIST OF PUBLICATIONS

2016	Althaus M, Groen Y, Wijers AA, Noltes H, Tucha O, Sweep FC, <u>Calcagnoli F</u> , 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? <i>Psychopharmacology</i> (under revision)
2015	<u>Calcagnoli F</u> , 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. <i>Psychoneuroendocrinology</i> , <i>51</i> : 112-121.
	Calcagnoli F, Stubbendorff C, Meyer N, de Boer SF, Althaus M, Koolhaas JM. Oxytocin microinjected into the central amygdaloid nuclei exerts anti-

2014 <u>Calcagnoli F</u>, 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):427-433.

aggressive effects in male rats. Neuropharmacology, 90:74-81.

<u>Calcagnoli F</u>, 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. *Behavioural Brain Research*, 261: 315-322.

<u>Calcagnoli F</u>, de Boer SF, Althaus M, den Boer JA, Koolhaas JM. Antiaggressive activity of central oxytocin in male rats. *Psychopharmacology*, 229 (4): 639-651.

Evers SS, <u>Calcagnoli F</u>, 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): 163-169.

#### BOOK

2014

2013

2010

<u>Calcagnoli F.</u> 'Oxytocin: the mediator of social life. A pharmaco-behavioral and neurobiological study in male rats.'

ISBN: 978-90-367-7262-4.

http://irs.ub.rug.nl/ppn/381337065

### SCIENTIFIC COMMUNICATIONS

2014 'Brain Oxytocin and Male Aggression: an Intimate Inverse Relationship'. 9<sup>th</sup> 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'. 10<sup>th</sup> World Congress of Neurohypophysial Hormones (WCNH), Bristol

'Acute and Chronic Oxytocin Treatment in feral male rats'. 9th Dutch Endo-Neuro-Psycho Meeting (ENP), Lunteren, The Netherlands

2012 'Brain Oxytocin modulates male aggression'. 8<sup>th</sup> 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