

CURRICULUM VITAE ET STUDIORUM

Name: Matteo Di Segni
Date of birth:
Place of birth: Rome, Italy
Nationality: Italian
Languages: Italian (native); fluent written and spoken English;
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EDUCATION AND RESEARCH:

Jul 18 – Dec 2018

Research Fellowship

Department of Psychology, "Sapienza" University of Rome, Rome-Italy, Psychobiology of Behavior Unit
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Dr. D. Andolina

Project: The role of miR-34 in preclinical models of psychopathologies induced by stressful experience.

Jun 17 – May 2018

Post-Doc Research Fellowship

Department of Psychology, "Sapienza" University of Rome, Rome-Italy.
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Prof. R.Ventura

Project: Early postnatal environment affects behavioral, neurochemical and morphological response to cocaine in adult mice.

May 16 – Apr 17

Post-Doc Research Fellowship

Department of Applied and Biotechnological Clinical Sciences, University of L'Aquila, Coppito (AQ) – Italy.
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Prof. R.Ventura

Project: Long term effects of early gene-environment interaction on reinforcing stimuli encoding.

Feb 16 – Apr 16

Research Assistant Fellowship

Department of Applied and Biotechnological Clinical Sciences, University of L'Aquila, Coppito (AQ) – Italy.
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Prof. R.Ventura

Project: Long term effects of early post-natal stress in a mice model of depression: gene x environment interaction.

Dec 15

PhD

PhD Programme in Behavioral Neuroscience Department of Psychology, "Sapienza" University of Rome, Rome-Italy.
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Prof. T. Pascucci

Thesis title: Unstable Maternal Environment Affects Adult Response to Rewarding and Aversive Stimuli in a Genotype-Dependent Manner.

Nov 12 - Oct 15

PhD Student

PhD Programme in Behavioral Neuroscience Department of Psychology, "Sapienza" University of Rome, Rome-Italy.
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Prof. T. Pascucci

Project: Long term effects of early gene-environment interaction on reinforcing stimuli encoding.

Jun 12 - Dec 12

Research Assistant Fellowship

Department of Psychology, "Sapienza" University of Rome.

Supervisor: Prof. T. Pascucci

Project: Execution and statistical analysis of motivational behavioral tests in animal model of anhedonia.

Mar 11 - Mar 12

Post-Degree Trainee

Department of Psychology, "Sapienza" University of Rome
European Centre for Brain Research (CERC) / Santa Lucia Foundation, Neurobiology of Behavior Unit, Rome-Italy.

Supervisor: Prof. S.Puglisi-Allegra

Jan 11

Laurea cum laude in Cognitive Neuroscience and Psychological Rehabilitation Faculty of Psychology, "Sapienza" University of Rome.

Supervisor: Prof. S.Puglisi-Allegra

Thesis title: Role of genotype in compulsion induced by appetitive food in an experimental model.

PUBLICATIONS:

Di Segni M, D'Addario SL, Babicola L, Ielpo D, Lo Iacono L, Andolina D, Accoto A, Luchetti A, Mancini C, D'Onofrio M, Brandi R, Arisi I, Pascucci T, D'Amato FR, Ventura R. (2018) Xlr4 as a new candidate gene underlying vulnerability to cocaine addiction. *EMBO Report*. Under Review.

Di Segni M, Andolina D, D'Addario SL, Babicola L, Ielpo D, Luchetti A, Pascucci T, D'Amato FR. (2018) Ventura R Gender-dependent effects of early unstable post-natal environment on response to positive and negative stimuli in adult mice. *Neuroscience*. Under Review.

Andolina D, **Di Segni M**, Accoto A, Lo Iacono L, Borreca A, Ielpo D, Berretta N, Perlas E, Puglisi-Allegra S, Ventura R. (2018) MicroRNA-34 Contributes to the Stress-related Behavior and Affects 5-HT Prefrontal / GABA Amygdalar System through Regulation of Corticotropin-releasing Factor Receptor 1. *Mol Neurobiol*, 55(9):7401-7412. **0 citation**

Di Segni M, Andolina D, Ventura R. (2018). Long-Term Effects of Early postnatal Environment: lesson from animal models. *Semin Cell Dev Biol*, 55(9):7401-7412. **1 citation**

Di Segni M, Andolina D, Coassin A, Accoto A, Luchetti A, Pascucci T, Luzi C, Lizzi AR, D'Amato F, Ventura R. (2017) Sensitivity to cocaine in adult mice is due to a “triple interaction” between genetic make-up, early environment and later experience. *Neuropharmacology*; 125:87-98. **1 citation.**

Andolina D, **Di Segni M**, Ventura R. (2016). MiRNA-34 and stress response. *Oncotarget*, 8:5658-5659. **2 citations**

Andolina D, **Di Segni M**, Bisicchia E, D'Alessandro F, Cestari V, Ventura A, Concepcion C, Puglisi-Allegra S, Ventura R. (2016). Effects of lack of microRNA-34 on the neural circuitry underlying the stress response and anxiety. *Neuropharmacology*.107:305-16. **11 citations**

Di Segni M, Andolina D, Luchetti A, Babicola L, D'Apolito LI, Pascucci T, Conversi D, Accoto A, D'Amato FR, Ventura R. (2016) Unstable Maternal Environment Affects Stress Response in Adult Mice in a Genotype-Dependent Manner. *Cereb Cortex*, 26(11):4370-4380. **3 citations**

Patrono E, **Di Segni M**, Patella L, Andolina D, Valzania A, Latagliata EC, Felsani A, Pompili A, Gasbarri A, Puglisi-Allegra S, Ventura R. (2015) When chocolate seeking becomes compulsion: gene-environment interplay. *PLoS One*, 10(3):e0120191. **5 citations**

Di Segni M, Patrono E, Patella L, Puglisi-Allegra S, Ventura R. (2014) Animal models of compulsive eating behavior. *Nutrients*. 6(10):4591-609. **11 citations.**

Ventura R, Latagliata EC, Patrono E, **Di Segni M**, Puglisi-Allegra S (2013) “Food seeking in spite of harmful consequences” in: *Animal Models of Eating Disorders (the Neuromethods series, Springer Protocols*, Humana Press), edited by Nicole Avena. **1 citation.**

Scopus ID:55453960500

h-index = 3; 35 citation (excluding self citations of all authors)

GRANT & AWARDS:

- May 15** EBPS Travel Award for EBBS-EBPS joint Meeting.
- Feb 15** Best Poster Award: plasticity, memory and behaviour session.
SINS National Meeting of PhD Students in Neuroscience "New Perspectives in Neuroscience: Research Results of Young Italian Neuroscientists".
- Jul 14** Starting Research Project Grant, "Sapienza" University of Rome
Title: *Long term effects of interaction gene x early environment on response to rewarding stimuli.* Protocol number C26N14YKTX
- Nov 12 -15** PhD Fellowship (merit-based competitive fellowship)
PhD Programme in Behavioral Neuroscience Department of Psychology,
"Sapienza" University of Rome, Rome-Italy.

TALKS AND POSTER PRESENTATION (as first author):

- June 2018** BraYn Brainstorming Research Assembly for Young Neuroscientists, Genoa (Italy).
Poster: "Xlr gene as a new candidate for susceptibility to cocaine addiction".
- Jul 2016** X FENS Forum of Neuroscience, Copenhagen (Denmark).
Poster: "Early life experience affects response to cocaine in adult mice depending on genotype".
- Sep 2015** EBBS-EBPS joint Meeting, Verona (Italy).
Poster: "Early environment affects response to aversive and rewarding stimuli in adult life depending on geno-type".
- Nov 2014** Neuroscience 2014, Washington (US).
Poster: "Long term effects of interaction gene x early environment on response to salient stimuli".
- Jul 2014** IX FENS Forum of Neuroscience, Milan (Italy).
Poster: "Early environment affects stress response in adult life depending on genotype".
- Oct 2013** XV National Congress of Italian Society for Neuroscience, Rome (Italy).
Poster: "Interaction between gene and early environment in stress response".
- Sep 2013** XIX National Congress of Experimental Section of Italian Association of Psychology, Rome (Italy).
Talk: "Role of miR-34 in stress response".
- Jul 2012** VIII FENS Forum of Neuroscience, Barcelona (Spain).
Poster: "Interaction between genetic and environmental factors promote eating disorders altering expression and function of dopamine, serotonin and norepinephrine receptors".
- Sep 2011** XVII National Congress of Experimental Section of Italian Association of Psychology, Catania (Italy).
Talk: "When chocolate seeking becomes "compulsive seek": genotype x environment interaction".
- Aug 2011** XIV Meeting EBPS, Amsterdam (The Netherlands).

Poster: "When chocolate seeking becomes compulsion: genotype x environment interaction".

LABORATORY SKILLS:

Behavioral analysis: experienced with experimental manipulations in early life, investigation of mother-pups interaction and tests for motivation, anxiety, depression, learning and memory in the mouse.

Mouse surgery and brain dissection procedures: experienced with transcardiac perfusions, intracerebral microdialysis probe implantation, dissection procedures and brain micro-punching.

Protein chemistry: experienced with morphological analysis by Golgi-cox staining and NeuroLucida System; Immunohistochemistry; confocal microscope analysis and the most common immunochemical procedures including W.B. and E.L.I.S.A.

Molecular biology: familiar with basic molecular biology techniques, including DNA and RNA extraction and qRT-PCR.

Informatics: good IT skills, experienced with EthoVision software for behavioral analysis, Macintosh/Microsoft operating systems and Microsoft Office suite.

Statistical analysis: basic knowledge of statistical analysis for experimental research; use of Superanova and Graph-Pad software for data analysis.

CERTIFICATED COURSES:

Dec 18 *Science of laboratory animals,*
FELASA-cat. B n. 023/09-Function A certificated (Dir 63/2010/UE).

Jan-Feb 17 *Technical and scientific writing*
Information and Communication Technology PhD Programme,
Department of Information Engineering, Electronics and Telecommunications,
Sapienza University of Rome, Italy.

Nov-Dec 16 *Science of Laboratory Animals,* FELASA - cat. B n.023/09-Function A, (Dir 63/2010/UE); European Center for Brain Research (CERC) - Rome, Italy.

SCIENTIFIC AFFILIATION:

EBBS European Brain and Behaviour Society
AIP Italian Association of Psychology

REVIEWER ACTIVITY:

Neuroscience Letters
Italian Ministry of Education, Universities and Research