

PERSONAL INFORMATION

Walter Adriani

Senior Researcher at Istituto Superiore di Sanità
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Gender: M | Date of birth: 13/01/1973 | Nationality: Italian

PhD date: 04/07/2002	N/A	>10 years from the date of the first PhD PhD awarded on 04 July 2002
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Enterprise	University	EPR
<input type="checkbox"/> Management Level	<u>Full professor (“straordinario”)</u>	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<u>Level II (“senior”) Researcher</u>
<input type="checkbox"/> Employee / worker level	Researcher	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

EMPLOYMENTS

01/01/2018 - present

Full Professor (termed as “straordinario” according to art. 1\12 of Law 230/05 in Italy)

Faculty of Psychology, Università Telematica Internazionale Uninettuno (UTIU), Rome, Italy

- Teacher of First-Degree Course “Psychobiology of Human Behavior” (9 CFU)

Senior Researcher from 01\01\2024

Centre for Behavioural Sciences and Mental Health (SCIC), Istituto Superiore di Sanità (ISS)

ORCID <http://orcid.org/0000-0002-0067-4430>

ResearcherID : N-9329-2017

EDUCATION AND ACADEMIC DEGREES

2002 - 2017

Collaborator (“CTER”) as temporary staff member (for 10 years, 2002-2012) then as full staff member (for 5 years, 2012-2017)
Reperto di Neuroscienze Comportamentali, Dipartimento di Biologia Cellulare e Neuroscienze, Istituto Superiore di Sanità (ISS), Rome, Italy

2002 - 2002

Bursary Fellow (6 months)
University of Liege, Belgium (bursary from the 'Università Sapienza' in Rome, Italy) - Laboratory of Psychobiology & Psychopharmacology

1999 - 04/07/2002

Doctorate (PhD) in Psychological Sciences, Liege, Belgium

Matter: Psychobiology and Psychopharmacology
Doctoral Thesis "Vulnerability to drug addiction in an animal model of human adolescence"
Promotor(s): Prof. Ezio Tirelli & Prof. Giovanni Laviola

- 2000 - 2001 **Bursary Fellow (2 years)**
Istituto Superiore di Sanità (ISS), Rome, Italy
(bursary "Giuseppe Levi" by the Accademia Nazionale dei Lincei, Rome, Italy)
Reperto di Fisiopatologia Comportamentale, Laboratorio di Fisiopatologia di Organo e Sistema
- 1998 - 1999 **Bursary Fellow (1 year)**
University of Bordeaux II - France bursary "Marie Curie TMR fellowship" from European
Community (category 20 = pre-doctoral)
Institute of Psychobiologie des comportements adaptatifs
Unité 259 Institut National de la Santé et Recherche Medicale (INSERM)
- 1998 -1998 **Training fellow and Military Service (9 months)**
Reperto di Cardiologia, Policlinico Militare "Celio" di Roma
- 1997 - 1997 **Training fellow (6 months)**
Istituto di Psicobiologia e Psicofarmacologia, Consiglio Nazionale delle Ricerche (CNR), Rome, Italy
- 1991 - 1996 **Master Degree "Laurea" in Biological Sciences**
Università Sapienza di Roma
Thesis "Propensione per la novità e sensibilizzazione agli effetti della d-amfetamina in topi peri-
adolescenti: aspetti ormonali e comportamentali"
Promotor(s): Dr. Giovanni Laviola & Prof. Alberto Oliverio

ACHIEVEMENTS AND AWARD

- Awards**
- 2000: award "William Ferrari" for behavioral pharmacology by the Società Italiana di Neuroscienze (SINS), in Pisa, Italy, 5-7 december
- 2003: award "EBPS Young Investigator" for behavioral pharmacology by the European Behavioural Pharmacology Society (EBPS), in Antwerp, Belgium, 6-9 september
- 2004: award "ECNP Fellowship" for neuropsychopharmacology by the European College of Neuropsychopharmacology (ECNP), in Stockholm, Sweden, 9-13 october

Editorial activity

Member of editorial board “Synapse”
Associate Editor & Specialty Chief Editor - “Frontiers in Behavioral Neuroscience”
Member editorial board - “International J. Environmental Research Public Health”

Book chapters:

1. Adriani W., Zoratto F., Laviola G. (2012) Home-cage testing of choice behaviour: proneness to risk in a gambling task. In: Cavanna AE, editor. Psychology of Gambling: New Research. Hauppauge, NY: Nova Science Publishers, Inc. pp. 73-92.
2. Adriani W., Laviola G. (2009) Animal models and mechanisms of impulsivity in adolescence. In: Palomo T, Beninger R, Archer T, Kostretzwa R, editors. Cerebro y Mente. Madrid: Editorial CYM. pp. 385-434.
3. Adriani W., Leo D., Guarino M., Natoli A., Di Consiglio E., De Angelis G., Traina E., Testai E., Perrone-Capano C., Laviola G. (2006) Short-term effects of adolescent methylphenidate exposure on brain striatal gene expression and sexual/endocrine parameters in male rats. In: Cellular and Molecular Mechanisms of Drugs of Abuse and Neurotoxicity: Cocaine, Ghb, and Substituted Amphetamines. pp. 52-73.

Publications on divulgative journals:

1. Addessi E., Albano M., De Petrillo F., Laviola G., Mirolli M., Paglieri F., Parisi D., Petrosino G., Ventricelli M., Zoratto F., Adriani W. Basi neurobiologiche del gioco d'azzardo: il contributo integrato di psicobiologia, etologia cognitiva e robotica evolutiva. Sistemi Intelligenti (in italian)

Majior invited presentations

2013: Organizer, with Dr. M. Leopoldo, of workshop “Moody Amnesia? Further Understanding of Serotonin 7 Receptors’ Neuropsychopharmacology”, held on 23-09-2013 at Istituto Superiore di Sanità - key speakers: M. Leopoldo (It), E. Lacivita (It), M.M. Herth (Dk), K. Tokarski (Pl), P. Lagos (Uruguay), A. Meneses (Mexico), T. Freret (Fr), E. Ponimaskin (De), R. Canese (It), L. Speranza (It), M. Castro (Sp), L. Ciranna (It), B. De Filippis (It);

2012: Organizer, with Dr. R. van den Bos, of workshop “On chance and choice - Further comprehension of risky decision-making and its psychobiology”, held on 05 & 06-03-2012 at Istituto Superiore di Sanità - key speakers: W. Davies (UK), F. Dellu-Hagedorn (Fr), J. Swendsen (Fr), R. Canese (It), J. Homberg (NL), A. Goudriaan (NL), S. Granon (Fr), J.C. Dreher (Fr);

Title “Animal models and mechanisms of impulsivity and gambling proneness: age-specific differences and adolescent treatment” during a meeting of “European Behavioral Pharmacology Society” (EBPS), La Rochelle (France), september 2013 (invited speaker);

Title “Social withdrawal and gambling profile after lentivirus-mediated modulation of DAT expression in rats’ accumbens” during a meeting of “European Behavioral Pharmacology Society” (EBPS), Rome, Italy, september 2009 (invited speaker);

Title “Methylphenidate to adolescent rats drives enduring changes of accumbal Htr7 expression: Implications for impulsive behavior and neuronal morphology” during a meeting of “World Congress on ADHD”, Vienna, Austria, may 2009 (selected speaker);

Presentation as young-award winner at “VII Convegno Nazionale dei Giovani Cultori delle Neuroscienze”, Pisa, Italy, december 2000 (invited speaker).

Grants	<p>Research</p> <p>2001-2002: winner of a grant under program “CNR-giovani-2000”, with a project “Modelli animali di autismo e di ADHD” - CNR, Rome, Italy;</p> <p>2009-2012: winner as P.I., with a project “ADHD-symptoms and therapy” under a call “Giovani Ricercatori 2007” by the Ministero della Salute, Rome, Italy;</p> <p>2011-2014: winner as P.I. of the project “NeuroGenMRI” (coordinator Dr. L. Reneman, Amsterdam, NL) under a “joint call” by ERA-NET “PrioMedChild”; granted entity: Ospedale Pediatrico Bambino Gesù, Roma; sub-contracted entity: Istituto Superiore di Sanità (ISS);</p> <p>2014-2015: winner as co-P.I. of the project “GAMBLING - Fattori psicobiologici alla base dei comportamenti di ricerca del rischio, dei disturbi nel controllo degli impulsi e del gioco d’azzardo patologico”, by Dipartimento Politiche Antidroga (DPA), Rome, Italy.</p>
Patents	<p>Adriani W, Laviola G, Pascale E, D’Addario C – “METODO PER DETERMINARE IL DEFICIT DI ATTENZIONE CON IPERATTIVITÀ” Patent application: in ITALY (22-DECEMBER-2016) at no. 102016000129938; European patent application (21-DECEMBER-2017) at no. 17830021.6; Publication International Number WO/2018/116228 A1 - Attorney: Bugnion Chemistry & Life Science Patent Group Italy; Ref: 11.I2012.12.IT.4; Patent Holder: Istituto Superiore di Sanità, 60%, Università La Sapienza, 20%; Università di Teramo, 20%.</p>

ADDITIONAL INFORMATION

Publications

total number of publications in peer-review journals: 135
total Impact Factor (IF) (average IF/paper): 3.34
total number of citations: 5783
H index: 43

Best selected papers:

- Adriani W., Spijker S., Deroche-Gamonet V., Laviola G., Le Moal M., Smit A.B., Piazza P.V. Evidence for enhanced Neurobehavioral vulnerability to nicotine during periadolescence in rats. *Journal of Neuroscience* 2003, 23:4712-4716.
- Cerniglia L, Zoratto F, Cimino S, Laviola G, Ammaniti M, Adriani W. Internet Addiction in adolescence: Neurobiological, psychosocial and clinical issues. *Neurosci Biobehav Rev.* 2017; 76(Pt A):174-184.
- Leo D, Sukhanov I, Zoratto F, Illiano P, Caffino L, Sanna F, Messa G, Emanuele M, Esposito A, Dorofeikova M, Budygin EA, Mus L, Efimova EV, Niello M, Espinoza S, Sotnikova TD, Hoener MC, Laviola G, Fumagalli F, Adriani W, Gainetdinov RR. Pronounced Hyperactivity, Cognitive Dysfunctions, and BDNF Dysregulation in Dopamine Transporter Knock-out Rats. *J Neurosci.* 2018; 38(8):1959-1972.
- Macri S., Spinelli S., Adriani W., Higley J.D., Laviola G. Early adversity and alcohol availability persistently modify serotonin and hypothalamic-pituitary-adrenal-axis metabolism and related behavior: What experimental research on rodents and primates can tell us. *Neuroscience and Biobehavioral Reviews* 2007, 31:172-180.
- Marco E.M., Adriani W., Llorente R., Laviola G., Viveros M.-P. Detrimental psychophysiological effects of early maternal deprivation in adolescent and adult rodents: Altered responses to cannabinoid exposure. *Neuroscience and Biobehavioral Reviews* 2009, 33:498-507
- Marco E.M., Adriani W., Ruocco L.A., Canese R., Sadile A.G., Laviola G. Neurobehavioral adaptations to methylphenidate: The issue of early adolescent exposure. *Neuroscience and Biobehavioral Reviews* 2011, 35:1722-1739.
- Oggiano M, Zoratto F, Palombelli G, Festucci F, Laviola G, Curcio G, Canese R, Adriani W. Striatal dynamics as determinants of reduced gambling vulnerability in the NHE rat model of ADHD. *Prog Neuropsychopharmacol Biol Psychiatry.* 2020; 100:109886.
- Pettoruso M, Zoratto F, Miuli A, De Risio L, Santorelli M, Pierotti A, Martinotti G, Adriani W, di Giannantonio M. Exploring dopaminergic transmission in gambling addiction: A systematic translational review. *Neurosci Biobehav Rev.* 2020;119:481-511.
- Tistarelli N, Fagnani C, Troianiello M, Stazi MA, Adriani W. The nature and nurture of ADHD and its comorbidities: A narrative review on twin studies. *Neurosci Biobehav Rev.* 2020;109:63-77.
- van den Bos R., Davies W., Dellu-Hagedorn F., Goudriaan A.E., Granon S., Homberg J., Rivalan M., Swendsen J., Adriani W. Cross-species approaches to pathological gambling: A review targeting sex differences, adolescent vulnerability and ecological validity of research tools. *Neuroscience and Biobehavioral Reviews* 2013, 37:2454-2471.

