

Procedura valutativa (Codice Concorso 2021RTDB014) per un posto Ricercatore RTD, Tipologia B, Settore concorsuale: 11/E4; Settore Scientifico Disciplinare: M-PSI/08, presso il Dipartimento di Psicologia Dinamica, Clinica e Salute, Università degli studi “La Sapienza”.

## ALLEGATO B.1.

Decreto Rettore Università di Roma “Sapienza” n. 1077/2021 del 19.04.2021 con avviso pubblicato sulla G.U. – IV serie speciale n. 37 in data 11-05-2021

# VALERIA CAROLA

## Curriculum Vitae

Place, ROME

Date, 06-06-2021

### Part I – General Information

Full Name	Valeria Carola
Citizenship	Italian
Spoken Languages	ITALIAN: native – ENGLISH fluent (speaking, reading, writing)

### Part II – Education

Type	Year	Institution	Notes (Degree, Experience)
University graduation	1997	“Sapienza” University, Rome	Master's Degree in Psychology (General and Experimental Psychology) <i>magna cum laude</i> .
Licensure	1998	“Sapienza” University, Rome	Graduation to Professional Psychologist (Italian legislation, licence to practice- esame di stato).
Post-graduate studies	1998	“Scuola Medica Ospedaliera di Roma e della Regione Lazio”	Graduate degree on “ <i>Clinical Psychology, Psychotherapy and supervision</i> ”; (1 year), San Eugenio Hospital.
Post-graduate studies	1998	“Scuola Medica Ospedaliera di Roma e della Regione Lazio”	Graduate degree on “ <i>Neuropsychology and Neurobiology of Behavioral Disorders</i> ” (1 year). San Camillo Hospital
Post-graduate studies	1999	“Scuola Medica Ospedaliera di Roma e della Regione Lazio”	Graduate degree on “ <i>Clinical Psychology and Psychotherapy</i> ” (2 years). San Eugenio Hospital
PhD	2002	“Sapienza” University, Rome	PhD in “ <i>Psychobiology and Psychopharmacology</i> ” (100/100)

Specialty	2003	Cognitive Psychology Association, Rome	Specialization in “Cognitive Behavioural Psychotherapy”; 4 years
Post-graduate studies	2006	University of Cambridge	First Certificate in English

### Part III – Appointments

#### IIIA – Academic Appointments

Start	End	Institution	Position
19/11/2018	present	Department of Dynamic and Clinical Psychology, and Health Studies; “Sapienza” University, Rome	Assistant Professor (RTD-A; SSD M-PSI/08 SSC 11/E4)
19/11/2018	present	Santa Lucia Foundation (IRCCS), Rome	Team/Project Leader
01/07/2012	18/11/2018	Santa Lucia Foundation (IRCCS), Rome	Team/Project Leader and Researcher (a tempo determinato)
01/12/2011	30/06/2012	Santa Lucia Foundation (IRCCS), Rome	Post-Doc Research Fellow
1/12/2009	30/11/2011	Department of Psychology; “Sapienza” University, Rome	Post-Doc Research Fellow (2 years; Assegnista di Ricerca)
1/10/2008	30/11/2013	European Molecular Biology Laboratory (EMBL, Rome)	Visiting Scientist
1/11/2008	31/10/2009	Department of Psychology; “Sapienza” University, Rome	Post-Doc Research Fellow (1 year; Assegnista di Ricerca)
01/04/2004	30/09/2008	European Molecular Biology Laboratory (EMBL, Rome)	Post-Doc Research Fellow (5 years)
01/10/2003	30/03/2004	European Molecular Biology Laboratory (EMBL, Rome)	Visiting Scientist
01/04/2002	31/03/2004	Department of Psychology; “Sapienza” University, Rome	Post-Doc Research Fellow (2 years; Assegnista di Ricerca)

#### IIIB – Other Appointments

Start	End	Institution	Position
27/05/2021	27/05/2030	Italian Ministry of Education, University and Research (MIUR)	National Scientific Qualification to Associate Professor in Clinical and Dynamic Psychology (Abilitazione Scientifica Nazionale per Professore II fascia SSD M-PSI/08 SSC 11/E4)
04/04/2017	04/04/2026	Italian Ministry of Education, University and Research (MIUR)	National Scientific Qualification to Associate Professor in Applied Biology (Abilitazione Scientifica Nazionale per Professore II fascia SSC 05/F1)

1/04/2021	present	Italian Ministry of Education, University and Research (MIUR)	Member of REPRISE (albo degli esperti scientifici istituito presso il MIUR) for the section: Clinical and health psychology (SH4_3)
15/10/2020	present	Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Member of the quality commission (membro commissione qualità) of CDS: Clinical Psychosexology - Psicosessuologia Clinica LM-51
09/09/2020	present	Faculty of Medicine and Psychology, "Sapienza" University, Rome	Representative of the Faculty Researchers (Giunta di Facoltà)
14/04/2020	present	Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Member of the "Dynamic and Clinical Psychology" PhD Program Committee.
14/11/2019	present	Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Representative of the Department Researchers (Giunta di Dipartimento)
1/01/2021	present	Wake Forest School of Medicine, North Carolina (USA)	Co-tutor for a student at the "Neuroscience" PhD programme.
1/12/2020	present	Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Tutor for Post-Doc Research Fellow (Assegno di Ricerca su Sapienza Grant N RG11916B50652E41).
01/01/2019	present	Bovet- Neuroscience Center- "Sapienza" University, Rome	Member of the Scientific Committee
1/11/2018	present	Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Tutor and co-tutor for students at the "Dynamic and Clinical Psychology" PhD Program.
01/03/2019	present	Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Thesis mentor for Bachelor's Degree students at CDS: Clinical Psychosexology - LM-51; and CDS: Dynamic Developmental Psychopathology.
07/09/2020		Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University, Rome	Member of the Commission for the election of the representatives of students, doctoral students, postgraduates.
02/09/2019		Faculty of Medicine and Psychology, "Sapienza" University, Rome	President of the supervisory Commission for the locations for carrying out the admission test to the Degree Courses with restricted access in Psychology and Health - Psychology and Social Processes
10/07/2019		Department of Dynamic and Clinical Psychology, and Health Studies; "Sapienza" University,	Member of the Commission for the election of the President of the CDS: Clinical Psychosexology -

1/11/2017	30/12/2020	Rome Department of Psychology; "Sapienza" University, Rome	Psicosessuologia Clinica LM-51 Co-tutor for a student at the "Behavioral Neuroscience" PhD programme.
1/10/2017	30/10/2018	Department of Human Sciences, LUMSA University, Rome	Thesis mentor to Bachelor's Degree students, Psychology- LM51
2010	2017	Department of Psychology; "Sapienza" University, Rome	Thesis supervisor to Bachelor's Degree students (Psychology- Neurobiology)

### III C – Other Appointments- Activities in Clinical Context

Start	End	Institution	Position
01/02/2021	present	Intensive Care Unit, Sant'Andrea Hospital	Psychologist at Clinical Unit- Clinical evaluation (through questionnaires and clinical interviews) and support to SARS- CoV-2 syndrome (COVID-19) patients at the end of their pharmacological treatment.
01/05/2021	present	Intensive Care Unit, Sant'Andrea Hospital	Psychologist at Clinical Unit - Clinical evaluation (through questionnaires and clinical interviews) and support to health workers
13/05/2019	present	Ordine Psicologi Lazio	Member of the Ordine Psicologi Lazio (N24891)
01/05/2019	30/12/2020	Guardia di Finanza Recruiting Center – Via delle Fiamme Gialle, Rome, Lido di Ostia,	Selector- Clinical and Psychological evaluation (through questionnaires and clinical interviews) aimed to recruit personnel at the Guardia di Finanza.

### Part IV – Teaching experience

Year	Institution	Lecture/Course
2020/2021- present	CDS: Clinical Psychosexology - Psicosessuologia Clinica LM-51; Faculty of Medicine and Psychology, "Sapienza" University, Rome;	"Trauma and sexual abuse and gender violence [10592465] (SSD: M-PSI/08; 6 CFU; 48 hours),
2018/2019- present	CDS: Physiotherapy (abilitante alla professione sanitaria di Fisioterapista; Corso di laurea C - Roma Azienda S. Giovanni Addolorata), "Sapienza" University, Rome	"Clinical Psychology-Rehabilitation in the neurological area" [1034836], (SSD: M- PSI/08; 1 CFU, 12 hours),
2018/2019-	CDS: Pediatric Nursing (abilitante)	"Clinical Psychology-Nursing in psychiatry

present	alla professione sanitaria di Infermiere Pediatrico; Azienda Policlinico Umberto I; Medicina e Odontoiatria – Farmacia e Medicina), “Sapienza” University, Rome.	and mental health” [1035038], (SSD: M-PSI/08; 2 CFU, 24 hours),
2020/2021-present	Specialty (Scuola di Specializzazione in Psicologia Clinica), Faculty of Medicine and Psychology, “Sapienza” University, Rome.	“Psychoneuroendocrinoimmunology”, (SSD: MED/13; 3 CFU; 24 hours).
2020/2021-present	“Dynamic and Clinical Psychology” PhD Program, Department of Dynamic and Clinical Psychology, and Health Studies; “Sapienza” University, Rome	“How to review a scientific article”, (6 hours)
2018/2019-present	Professionalising Training Activities (Attività Formative professionalizzanti); CDS:- Dynamic Developmental Psychopathology- Psicopatologia Dinamica dello Sviluppo (LM PDS), Faculty of Medicine and Psychology, “Sapienza” University, Rome;	“Gene-by-environment interaction in the modulation of psychopathology. Evaluation of exposure to early life trauma and the genetic background” (9 hours)
2018/2019-2019/2020	CDS: Nursing (abilitante alla professione sanitaria di Infermiere; - Corso di laurea E - ASL Roma 1 -S. Spirito) “Sapienza” University, Rome.	“Clinical Psychology- Psychology and nursing in mental health” [1034963], (SSD: M-PSI/08; 2 CFU, 24 hours),
16-18/09/2019	Advanced training course (Corso di Alta Formazione), School of Neuroethics, International School of Advanced Studies, SISSA, Trieste	“Emotions, language, self-monitoring neurosciences, cognitive sciences, ethics and clinic of addictions” (3 hours)
2017-2018	CDS: Psychology - LM-51; Department of Human Sciences, LUMSA University, Rome	“Developmental Neuropsychology” (Ad-hoc teacher, professore a contratto; 6 CFU, 40 hours)
2017-2018	CDS: Psychology - LM-51; Department of Human Sciences, LUMSA University, Rome	“Workshop: tools for the assessment of cognitive and emotional intelligence disorders (Ad-hoc teacher, professore a contratto; Laboratorio; 2 CFU, 30 hours)
2016/2017-2017/2018	International College of Osteopathic Manual Medicine, Rome, Italy	“Medical Statistics”, (Ad-hoc teacher, professore a contratto; 2 CFU, 20 hours)
2016-2017	Department of Psychology, Faculty of Medicine and Psychology, “Sapienza” University, Rome.	“Psychobiology of Substance use disorders”, “Psychobiology of developmental disorders”, (Teaching Assistant, Cultore della materia)

## Part V - Society memberships, Awards and Honors

Year	Title
2018	Member, Italian Psychology Association (AIP), Clinical and Dynamic Psychology

	section
2013	Member, Italian Society of Drug-Addiction (SITD)
2010	Member, European Behavioural Pharmacology Society (EBPS)
2008	Award for the best Oral Presentation (young scientist) at the EBPS workshop, Cork, Ireland
2003	Member, Society of Neuroscience (SfN)

#### Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2021	"PRIME- PRevenire con Insight, Motivazione, Emozione".	Bando del Dipartimento Politiche antidroga per progetti sperimentali in ambito nazionale in materia di prevenzione delle tossicodipendenze. Grant ID: 13b46287; (3 years); <b>Investigator</b>	€ 435600
2020	"Neural processing of emotions in traumatized children treated with brief psychodynamic therapy",	SAPIENZA University of Rome: Progetti di Ricerca di Università, (Tipologia Media), (3 years) Grant ID: RM120172B8B4427C; <b>Investigator</b>	€ 15000
2019	"A multidimensional approach for the evaluation of psychopathological risk factors in adolescents with a history of traumatic childhood"	SAPIENZA University of Rome: Progetti di Ricerca di Università, (Tipologia Grande), (3 years), Grant ID RG11916B50652E41; <b>Principal Investigator</b>	€ 50000 + Post Doc Fellowship (assegno di ricerca)
2016	"Functional alterations occurring in the Ventral Tegmental Area dopamine neuron pathway following early social adverse experience".	SANTA LUCIA FOUNDATION: 5 x mille Research Projects; <b>Principal Investigator</b>	€ 15000
2015	"Valutazione del ruolo funzionale dell'attivazione immunitaria associata a stress precoce nell'induzione di alterazioni comportamentali in età adulta"	SANTA LUCIA FOUNDATION: 5 x mille Research Projects; <b>Principal Investigator</b>	€ 15000
2014	"L'induzione di uno stato infiammatorio come conseguenza dell'esposizione a traumi in età precoce: l'impatto sullo sviluppo di malattie psichiatriche e sulla differente vulnerabilità ai traumi cerebrali"	SANTA LUCIA FOUNDATION: 5 x mille Research Projects; <b>Principal Investigator</b>	€ 15000
2012	"Environmental, genetic and epigenetic components in drug	Italian Ministry of Health: Young Research Grant	€ 580000

	abuse and relapse to drug-seeking”	(Giovani Ricercatori), (4 years), Grant ID GR-2009-1576820; <b>Principal Investigator</b>	
2011	“Long term effects of the gene by early environment interaction on the encoding of reward and aversive cues”	Italian Ministry of Education, Universities and Research (MIUR): FIRB (Futuro in Ricerca di Base) (4 years), Grant ID RBFR10RZ0N_001; <b>Investigator</b>	€ 500000
2010	“Behavioral, biochemical, and molecular characterization of new models of hyperphenylalaninemia: how phenylalanine causes mental retardation”	SAPIENZA University of Rome: Progetti di Ricerca di Università, (Tipologia Media), (3 years) Grant ID C26A10CPL8; <b>Investigator</b>	€ 15000
2006	“Epigenetic programming by early gene-environment interactions”	NIH-R21 Research Grant (USA), (3 years); Grant ID ES15174; <b>Investigator</b>	€ 100000
2004	“Methods for the identification of gene-environment interactions underlying adult anxiety behavior in the mouse”	NARSAD Young Research Grant (USA) (2 years); <b>Investigator</b>	€ 50000
2004	“Combined genetic screen for gene-environment interactions underlying anxiety behavior in mouse and humans”	“Fritz Thyssen Stiftung (Germany) Foundation (4 years); <b>Investigator</b>	€ 40000

## Part VII – Research Activities

### Keywords

### Brief Description

Mood Disorders	My research activity is mainly focused on the investigation of the factors that underlie the development of psychiatric pathologies (e.g. mood disorders, substance use disorders), with a specific and strong interest in the identification of neurobiological alterations caused by exposure to traumatic events in childhood/adolescence and associated with the increased susceptibility to the development of these diseases. My research activity is carried out both in clinical settings, thanks also to the support of the analysis of bio-markers of pathology in the blood, and in preclinical rodent contexts. In general, my investigation aims to understand the triggering factors of the different psychopathologies in order to identify new psychological therapeutic pathways and their best temporal mode of administration.
Stress	
Parental Care	
Substance Use Disorder	
Clinical Psychology	
Bio-markers	
Psychopathology	
Early-life Experiences	
Epigenetics	
Neurodevelopmental Alterations	
Immune System	My main/current line of research are the following: 1) Analysis of biomarkers of therapeutic success in the context of Major Depression Disorder and Substance Use Disorder and behavioral addictions 2) Evaluation of relational and cognitive-emotional regulation processes in patients suffering from neurological pathologies of different nature. 3) Short and long-term emotional, behavioral, and physiological reactions to child stressful/traumatic events. 4) Psychoneurobiological alterations
Attachment Style	
Motivation	

induced by exposure to stressful conditions in preclinical and clinical contexts associated with altered/pathological behaviors.

## NATIONAL/INTERNATIONAL COLLABORATIONS AND SCIENTIFIC PROJECTS

### Current

- Scientific collaboration with *Prof. Troisi Alfonso of the Department of Systems Medicine, University of Rome "Tor Vergata"*, oriented to investigate the genetic, epigenetic, environmental (in early life and adulthood) and psychological factors underlying the development and modulation of various psychopathologies. Specifically, this study aims to identify these factors and to understand their role in the etiology of psychiatric diseases and in the clinical treatment.
- Scientific collaboration with *Prof. Viscomi Maria Teresa, Department of Life Sciences and Public Health, Università Cattolica Sacro Cuore*, oriented to evaluate the psychoneurobiological alterations induced by exposure to stressful conditions.
- Scientific collaboration with *Dr. Casella Pietro, Director UOC addictions - ASL RMI-Rome*, oriented to investigate the genetic, epigenetic, environmental (early life and adulthood) and psychological factors associated with substance use disorder and behavioral addictions. These factors are studied in the context of the clinical treatment and relapse prevention.
- Scientific collaboration with *Prof. Trentini Cristina and Prof. Ugo Sabatello, Department of Dynamic and Clinical Psychology and Health Studies, and the Department of Human Neuroscience, University of Rome "Sapienza"*, oriented to investigate the psychopathological risk associated with the exposure to a traumatic childhood in adolescents, through a multidimensional approach (EEG, salivary and blood biological markers and psychological parameters).
- Scientific collaboration with *Prof. Cimino Silvia and Tambelli Renata, Department of Dynamic and Clinical Psychology and Health Studies, University of Rome "Sapienza"*, and with *Prof. Cerniglia Luca, International Telematic University Uninettuno*, for a project aimed at evaluating environmental and epigenetic aspects in a population of children diagnosed with disorder of mood dysregulation disorder.
- Scientific collaboration with *Prof. Lai Carlo, Department of Dynamic and Clinical Psychology and Health Studies, University of Rome "Sapienza"*, for a project aimed at evaluating the association of epigenetic factors with the mother/father attachment, in one month old children.
- Scientific collaboration with *Prof. Cristina Ottaviani, Department of Psychology, University of Rome "Sapienza"*, aimed at investigating the impact of early-life traumatic experiences on the autonomic system, in relation to psychopathological symptoms induced by these events.
- Scientific collaboration with *Prof. Mercuri Nicola and Dr. Liquori Claudio, Department of Systems Medicine, University of Rome "Tor Vergata"*, and *Prof. Trentini Cristina and Spitoni Grazia, Department of Dynamic, Clinical Psychology and Health Studies, University of Rome "Sapienza"* oriented to investigate psychological and neuropsychological alterations in the context of neurological diseases, in particular in neurodegenerative diseases.
- Scientific collaboration with *Prof. Nicolais G., Department of Dynamic, Clinical Psychology and Health Studies and Prof. Monica Rocco, Department of Medical-Surgical Sciences and Translational Medicine - University of Rome "Sapienza"*, for a research project aimed at evaluating psychopathological outcomes in patients following the SARS-CoV-2 syndrome (COVID-19) and admitted to the Intensive Care Unit.
- Scientific collaboration with *Prof. Salvatore Sergio and Prof. Gennaro Alessandro, Department of Dynamic, Clinical Psychology and Health Studies - University of Rome "Sapienza"*, aimed at evaluating the impact of early-life traumatic events on narrative style and emotional regulation in young adults.



- Scientific collaboration with Prof. Guatteo Ezia, *University “Partenope” of Naples* aimed at evaluating the modulatory effect of early-life adverse experiences on the maturation and development of the brain dopaminergic system.

### Past

- Scientific collaboration with Prof. Lesch Klaus Peter, *University of Wuerzburg - Germany*, oriented to evaluate the contribution of the interaction between early-life adverse events and serotonin transporter (SERT) gene polymorphism on the development of mood disorders
- Scientific collaboration with Dr. Depino Amaicha Mara, *Leloir Institute Foundation, Buenos Aires, Argentina*, oriented to evaluate the impact of both parental care and inflammatory events on brain and behavior development.
- Scientific collaboration with Dr Mirabeau Olivier, *CNRS, Gif-sur-Yvette - France*, oriented to evaluate the impact of different maternal style on behavioral phenotypes in preclinical context.
- Scientific collaboration with Dr Aricò Eleonora, *Istituto Superiore di Sanità, Roma*, oriented to evaluate the gene expression changes (whole-genome) in both brain and blood, induced by exposure to early-life adversities (in pre and clinical contexts).

### Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	39	SCOPUS	2002	2021

Total Impact factor	157,52 (JCR-Journal Citation Report - Web of Science)
Total Citations	1156 Scopus
Average Citations per Product	29,64 Scopus
Average Impact Factor per Product	4,14 (JCR-Journal Citation Report - Web of Science)
Hirsch (H) index	15 Scopus
Normalized H index	0,63 [15/24 (2021-1997)]

\*H index divided by the academic seniority (time span from graduation).

**First, last, and/or corresponding author in 26 out of 39 publications**

### Part IX– Selected Publications

#### List of the publications selected for the evaluation

*Citations from Scopus, Impact Factor from Journal Citation Report - JCR (Web of Science)*

1. **Carola V**, Cimino S, Bussone S, Cerniglia L, Tambelli R. Children with disruptive mood dysregulation disorder and psychopathological risk in their mothers: the function of global DNA methylation. *Front. Psychiatry* 2021 Jan 27;12:593500. doi: 10.3389/fpsy.2021.593500. (I.F. 2.85; CIT. 0).
2. Pellicano GR, **Carola V**, Bussone S, Cecchini M, Tambelli R, Lai C. Beyond the dyad: the role of mother and father in newborns global DNA methylation during the first month of life – a pilot study. *Developmental psychobiology* 2020 Dec 22. doi: 10.1002/dev.22072. (I.F. 2.02; CIT 1).

3. Bussone S, Pesca C, **Carola V**. Attachment style and emotion regulation: the modulatory role of A118G polymorphism. *Psychology Hub* (2020) XXXVII, 3, 23-30. doi: 10.13133/2724-2943/17228.
  4. Bussone S, Pesca C, Tambelli R, **Carola V**. Psychological health issues subsequent to SARS-Cov 2 restrictive measures: The role of parental bonding and attachment style. *Front. Psychiatry* 2020 Nov 4;11:589444. doi: 10.3389/fpsy.2020.589444 (I.F. 2.85; CIT 2).
  5. Catale C, Bussone S, Lo Iacono L, Viscomi MT, Palacios D, Troisi A, **Carola V**. Exposure to different early-life stress experiences results in differentially altered DNA methylation in the brain and immune system. *Neurobiology of Stress* 2020; 13, November, doi.org/10.1016/j.ynstr.2020.100249 (I.F. 7.20; CIT 3).
  6. Lo Iacono L, Bussone S, Andolina D, Tambelli R, Troisi A, **Carola V**. Dissecting major depression: The role of blood biomarkers and adverse childhood experiences in distinguishing clinical subgroups. *J Affect Disord.* 2020 Nov 1;276:351-360. doi: 10.1016/j.jad.2020.07.034. (I.F. 3.89; CIT 2).
  7. Cimino S, **Carola V**, Cerniglia L, Bussone S, Bevilacqua A, Tambelli R. The  $\mu$ -opioid receptor gene A118G polymorphism is associated with insecure attachment in children with disruptive mood regulation disorder and their mothers. *Brain Behav.* 2020 Jul;10(7):e01659. doi: 10.1002/brb3.1659. (I.F. 2.09; CIT 3).
  8. Bussone S, Trentini C, Tambelli R, **Carola V**. Early-Life Interpersonal and Affective Risk Factors for Pathological Gaming. *Front Psychiatry.* 2020 May 15;11:423. doi: 10.3389/fpsy.2020.00423. Review. (I.F. 2.85; CIT 3).
  9. \*\*\*Lo Iacono L, Catale C, Martini A, Valzania A, Viscomi MT, Chiurchiù V, Guatteo E, Bussone S, Perrone F, Di Sabato P, Aricò E, D'Argenio A, Troisi A, Mercuri NB, Maccarrone M, Puglisi-Allegra S, Casella P, **Carola V**. From Traumatic Childhood to Cocaine Abuse: The Critical Function of the Immune System. *Biol Psychiatry.* 2018 Dec 15;84(12):905-916. doi: 10.1016/j.biopsych.2018.05.022. Epub 2018 Jun 11. (I.F.: 11.50; CIT 2).
- \*\*\*Results published in this article were reported by the following Media (press release): Italy - "Sole 24 ore", "Repubblica", "Radio 24", and "Medicina 33"; USA - www.elsevier.com
10. Lo Iacono L & **Carola V**. (2018) The impact of adolescent stress experiences on neurobiological development. *Semin Cell Dev Biol.* 2018 May; 77:93-103. doi: 10.1016/j.semcdb.2017.09.040. Epub 2017 Oct 7. Review. (I.F.: 5.46; CIT 12).
  11. Troisi A, **Carola V**, Gross C. (2017) Genetic variation in the serotonin transporter gene influences adult attachment style. *Clinical Neuropsychiatry*, 14, 4: 241:246 (CIT 2).
  12. Lo Iacono L, Visco-Comandini F, Valzania A, Viscomi MT, Coviello M, Giampà A, Roscini L, Bisicchia E, Siracusano A, Troisi A, Puglisi-Allegra S, **Carola V** (2015) Adversity in childhood and depression: linked through SIRT1. *Translational Psychiatry*, 5, e629; doi:10.1038/tp.2015.125. (I.F.: 5.53; CIT 28).

13. Troisi A, Frazzetto G, **Carola V**, Di Lorenzo G, Coviello M, Siracusano A, Gross C (2012). Variation in the  $\{\mu\}$ -opioid receptor gene (OPRM1) moderates the influence of early maternal care on fearful attachment. *Social Cognitive and Affective Neuroscience*, 7:542-7. (I.F.: 5.042; CIT 49).
14. Troisi A, Frazzetto G, **Carola V**, Di Lorenzo G, Coviello M, D'Amato FR, Moles A, Siracusano A, Gross C (2011). Social hedonic capacity is associated with the A118G polymorphism of the mu-opioid receptor gene (OPRM1) in adult healthy volunteers and psychiatric patients. *Social Neuroscience*, 6:88-97. (I.F.: 2.74; CIT 81).

**First, last, and/or corresponding author** in 10 out of **14 publications selected for the evaluation.**

## **Part X – Scientific Achievements**

### **PUBLICATIONS (Peer Reviewed Journals)**

#### **Total Publications**

*Citations from Scopus, Impact Factor from Journal Citation Report - JCR (Web of Science)*

1. Catale C, Bisicchia E, **Carola V\***, Viscomi MT\*. Early life stress exposure worsens adult remote microglia activation, neuronal death, and functional recovery after focal brain injury. *Brain Behav Immun*. 2021 Mar 4;S0889-1591(21)00097-0. doi: 10.1016/j.bbi.2021.02.032 (I.F. 6.63; CIT.0 \*Equal Senior Author).
2. **Carola V**, Cimino S, Bussone S, Cerniglia L, Tambelli R. Children with disruptive mood dysregulation disorder and psychopathological risk in their mothers: the function of global DNA methylation. *Front. Psychiatry* 2021 Jan 27;12:593500. doi: 10.3389/fpsy.2021.593500. (I.F. 2.85; CIT. 0).
3. Pellicano GR, **Carola V**, Bussone S, Cecchini M, Tambelli R, Lai C. Beyond the dyad: the role of mother and father in newborns global DNA methylation during the first month of life – a pilot study. *Developmental psychobiology* 2020 Dec 22. doi: 10.1002/dev.22072. (I.F. 2.02; CIT 1).
4. Bussone S, Pesca C, **Carola V**. Attachment style and emotion regulation: the modulatory role of A118G polymorphism. *Psychology Hub* (2020) XXXVII, 3, 23-30. doi: 10.13133/2724-2943/17228.
5. Bussone S, Pesca C, Tambelli R, **Carola V**. Psychological health issues subsequent to SARS-Cov 2 restrictive measures: The role of parental bonding and attachment style. *Front. Psychiatry* 2020 Nov 4;11:589444. doi: 10.3389/fpsy.2020.589444 (I.F. 2.85; CIT 2).
6. Catale C, Bussone S, Lo Iacono L, Viscomi MT, Palacios D, Troisi A, **Carola, V**. Exposure to different early-life stress experiences results in differentially altered DNA methylation in the brain and immune system. *Neurobiology of Stress* 2020; 13, November, doi.org/10.1016/j.ynstr.2020.100249 (I.F. 7.20; CIT 3).
7. Lo Iacono L, Bussone S, Andolina D, Tambelli R, Troisi A, **Carola V**. Dissecting major depression: The role of blood biomarkers and adverse childhood experiences in distinguishing

clinical subgroups. *J Affect Disord.* 2020 Nov 1;276:351-360. doi: 10.1016/j.jad.2020.07.034. (I.F. 3.89; CIT 2).

8. Cimino S, **Carola V**, Cerniglia L, Bussone S, Bevilacqua A, Tambelli R. The  $\mu$ -opioid receptor gene A118G polymorphism is associated with insecure attachment in children with disruptive mood regulation disorder and their mothers. *Brain Behav.* 2020 Jul;10(7):e01659. doi: 10.1002/brb3.1659. (I.F. 2.09; CIT 3).
9. Farini D, Cesari E, Weatheritt RJ, La Sala G, Naro C, Pagliarini V, Bonvissuto D, Medici V, Guerra M, Di Pietro C, Rizzo FR, Musella A, **Carola V**, Centonze D, Blencowe BJ, Marazziti D, Sette C. A Dynamic Splicing Program Ensures Proper Synaptic Connections in the Developing Cerebellum. *Cell Rep.* 2020 Jun 2;31(9):107703. doi: 10.1016/j.celrep.2020.107703. (I.F. 8.11; CIT 2)
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29. Lucchina L, **Carola V**, Pitossi F, Depino AM (2010). Evaluating the interaction between early postnatal inflammation and maternal care in the programming of adult anxiety and depression-related behaviors. *Behavioural Brain Research*, 213:56-65. (I.F.: 3.40; CIT 26)

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**First, last, and/or corresponding author** in 26 out of **39 publications selected for the evaluation.**

#### **PARTICIPATION AT NATIONAL AND INTERNATIONAL SCIENTIFIC CONFERENCES**

1. Oral Communication and Poster presentation (1c and 1 p) at Congresso Nazionale della Sezione di Psicologia Clinica e Dinamica, Associazione Italiana di Psicologia (AIP), Lecce, Italy. 17-09-2021 - 19-09-2021
2. Oral Communication at 19th National Congress of the Italian Society for Neuroscience (Virtual Conference). 09-09-2021 – 11-09-2021

3. Poster Presentation at 15th World Congress of Biological Psychiatry, 28-06-2021 – 30-06-2021 (Virtual-Edition).
4. Oral Communication at EBPS-CANBIND Workshop: “Behaviour to Biomarkers – Reverse Translation in 2021” (Virtual Edition). 05-03-2021 – 06-03-2021
5. Poster presentation at BraYn Conference (Virtual Edition). 25-11-2020 – 26-11-2020
6. Oral Communication at Giornate di Studio AIP – Sezione di Psicologia Clinica e Dinamica. (Virtual Edition). 18-09-2020 - 19-09-2020.
7. Poster presentation at FENS Forum of Neuroscience (Virtual Edition). 11-07-2020 - 15-07-2020
8. Poster presentation at "7th International European Society of Trauma and Dissociation Congress - The Legacy of Trauma and Dissociation: Body and Mind in a New Perspective" Rome. 24-10-2019 - 26-10-2019
9. Oral Communication and Poster presentation (1c and 1p) at Congresso Nazionale della Sezione di Psicologia Clinica e Dinamica, Associazione Italiana di Psicologia (AIP), Milan. 27-09-2019 - 29-09-2019
10. Oral Communication (2c) at Scuola di Neuroetica SISSA 2019 "Emozioni, Linguaggio, Autocontrollo. Neuroscienze, scienze cognitive, etica e clinica delle dipendenze", Trieste, Italy. 16-09-2019 - 18-09-2019
11. Poster presentation at "European Behavioural Pharmacology Society biennial meeting", Braga, Portugal. 28-08-2019 at 31-08-2019
12. Oral Communication and Poster presentation (1c and 1p) at "Perinatal Origins of Neuropsychiatric Disorders Meeting", Palermo, Italy. 29-05-2019 - 01-06-2019
13. Poster presentation at "The developing brain in health and disease meeting", Oxford (UK). 19-03-2019 - 20-03-2019
14. Poster presentation at FENS FORUM Berlin, Germany. 07-07-2018 - 11-07-2018
15. Oral Communication at Congresso Nazionale della Società Italiana Farmacologia, Rimini, Italy. 25-10-2017 - 28-10-2017
16. Oral Communication and Poster presentation (1 c and 1 p) at "European Behavioural Pharmacology Society Meeting", Heraklion, Crete. 31-08-2017 - 03-09-2017
17. Oral Communication at "9th Meeting- International Pathways of Psychiatry–Psychotherapy, Psychopharmacotherapy, Integrated Treatments", Rome. 24-11-2016 - 25-11-2016
18. Poster presentation at X Congresso Nazionale della Società Italiana Tossicodipendenze, Rome. 14-11-2016
19. Oral Communication at "European Molecular Biology Laboratory (EMBL)-alumni meeting", Rome. 27-05-2016
20. Oral Communication and Poster presentation (1 c and 4p) at "European Behavioural Pharmacology Society Meeting", Verona. 12-09-2015 - 15-09-2015
21. Poster presentation at European Behavioural Pharmacology Society Workshop "Stress, PTSD & Psychiatric Disorders: From Basic Science to Therapeutic Intervention", Rehovot, Israel. 03-05-2015 - 04-05-2015
22. Oral Communication at Convegno monotematico della Società Italiana di Farmacologia "Addictive Disorders: From Neurobiology to Novel Therapeutic Strategies", Palermo. 27-03-2015 - 28-03-2015
23. Oral Communication and Poster presentation (2 c and 1 p) at "Society for Neuroscience, Annual Meeting-SFN", Washington D.C., USA. 15-11-2014 - 19-11-2014
24. Poster presentation (3 p) at FENS FORUM, Milan. 05-07-2014 - 09-07-2014
25. Oral Communication at "40th year celebration, EMBL", Rome, 20-06-2014
26. Oral Communication at Workshop on Experimental Psychopathology, Rome. 27-02-2014 - 01-03-2014
27. Poster presentation at (2 c) "European College of Neuropsychopharmacology", Barcellona, Spain. 05-10-2013 - 09-10-2013

28. Oral Communication (2 c) "European Behavioural Pharmacology Society Meeting", La Rochelle, France, 06-09-2013 - 09-09-2013
29. Oral Communication at "28th World Congress of Neuropsychopharmacology", Stockholm, Sweden. 03-06-2012 - 07-06-2012
30. Poster presentation at "Society for Neuroscience, SFN, Annual Meeting", Chicago, USA 17-10-2009 - 21-10-2009
31. Poster presentation at American College of Neuropsychopharmacology, Scottsdale, Arizona, USA, 12-12-2008 - 12-12-2008
32. Poster presentation at "Society for Neuroscience, SFN, Annual Meeting", Washington DC, USA, 14-11-2008 - 18-11-2008
33. Oral Communication at European Behavioural Pharmacology Society Workshop "Behavioural Genetics and NeuroPsychiatric Disorders", Cork, Irlanda. 25-08-2008 - 27-08-2008
34. Poster presentation at "14th World Congress on Psychiatric Genetics", Cagliari. 28-10-2006 - 01-11-2006
35. Oral Communication at Congresso Società Italiana Terapia Cognitiva Comportamentale (SITCC), Napoli. 27-10-2006 - 29-10-2006.
36. Poster presentation at FENS FORUM, Vienna. 08-07-2006 - 2-07-2006
37. Poster presentation at "Society for Neuroscience, SFN, Annual Meeting", Washington DC, USA. 12-11-2005-16-11-2005

### **EDITORIAL/REVIEW ACTIVITIES**

2021-present

Review Editor for "Addictive Disorders" section - Frontiers in Psychiatry.

2021-present

Editorial Board member for "Psychology Hub"

2018-present

Review editor for Frontiers in Behavioral Neuroscience.

2010 – present

Reviewer for the following indexed journals: Molecular Psychiatry, Translational Psychiatry, Plos One, Neuroscience, Scientific Report, Neurobiology of Stress, Psychiatry Research, Neuropharmacology, Frontiers in Behavioral Neuroscience, Frontiers in Psychology, Behavioural Brain Research, Journal of Gambling Issues.

2018 Ad-hoc Grant Reviewer for Medical Research Council, UK (MRC)

2018

Guest Associate Editor for a special issue titled "Microglia" hosted in Seminars in Cell and Developmental Biology.

2017

Guest Associate Editor for a special issue titled "Environmental impact on mental health disorders" hosted in Seminars in Cell and Developmental Biology.

2015 Ad-hoc Grant Reviewer for Swiss National Science Foundation (SNSF)

2014-2015 Ad-hoc Grant Reviewer The Netherlands Organisation for Scientific Research (NWO)



Roma, 08/06/2021

In fede,  
Dott.ssa Valeria Carola

*Valeria Carola*