Livio Provenzi, PhD

Assistant Professor
RTD-b (art. 24 c.3-b L. 240/10)
Researcher, Psychologist, Psychotherapist

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BRIEF BIO

I am a psychologist, psychotherapist and researcher in developmental psychobiology at the University of Pavia (Italy). I received *MSc in Clinical Psychology* in 2008 and *PhD in Psychology* in 2016 at the Catholic University in Milan (Italy). From 2008 to 2019 I carried out clinical and research activities at the 0-3 Center of the IRCCS E. Medea Scientific Institute in Bosisio Parini, Lecco (Italy), while I obtained the *specialty in psychoanalytic psychotherapy* at the Italian Society for Relational Psychoanalysis (SIPRe) in 2016. In November 2019 I was appointed senior researcher at the IRCCS Mondino Foundation. Since February 2022 I am Assistant Professor (RTDb) at the Department of the Nervous System and Behavior of the University of Pavia, where I teach different courses, including *developmental psychobiology* and *developmental psychopathology*. At the present moment, I lead the Developmental Psychobiology Lab (www.devpsychobiology.com) of University of Pavia and IRCCS Fondazione Mondino, Pavia (Italy), where I also coordinate the research activities of the Pediatric Neurosciences Center.

In my research projects I integrate methodologies from behavioral sciences, infant research, neuroendocrinology, epigenetics and neuroscience to explore how what happens between us - human relationships – contributes to shape what happens inside us - the neurobiological connections that make us who we are. I am especially interested in studying the neuropsychobiological dimensions underlying the early human connections in conditions of typical and atypical development, such as preterm birth, sensory deficit, psychomotor retardation, environmental alterations. A specific attention to the first thousand days of life and to the role of early parent-child interaction further characterizes my line of research.

I authored more than 100 papers in international scientific journals (51% first author, 50% corresponding author, 11% last author – source: Web of Science; h-index = 27 – source: Scopus). I am member of the steering group of the Separation and Closeness Experiences in the Neonatal Environment (SCENE) international research group, Editor in Chief for Frontiers in Pediatric Psychology, and member of the editorial board of Infant Behavior and Development and Plos One. I published three books: *Developmental Human Behavioral Epigenetics* (Elsevier, 2020), *Psicobiologia dello Sviluppo* (Carocci, 2021), *Family-Centered Care in Childhood Disability* (Springer, 2023). I love playing the piano, pop culture, and exploring new cities, food and cultures.

EDUCATION AND TITLES

2016	**PhD in Psychology** UNIVERSITÀ CATTOLICA, MILANO, ITALY
2016	**Psychoanalytic training** SIPRE, MILANO, ITALY
2012	**Post-graduate specialty in collaborative assessment** THERAPEUTIC ASSESSMENT INSTITUTE, AUSTIN, TX, USA
2008	**Master in Clinical Psychology** UNIVERSITÀ CATTOLICA, MILANO, ITALY
2006	**Bachelor in Developmental Psychology** UNIVERSITÀ CATTOLICA, MILANO, ITALY

RESEARCH EXPERIENCE

2022 – today	**Assistant Professor, RTD-b (art. 24 c.3-b L. 240/10)** UNIVERSITY OF PAVIA, PAVIA, ITALY
2022 – today	**Coordinator of the Developmental Psychobiology Lab (dpb lab)** **https://www.devpsychobiology.com/** IRCCS MONDINO FOUNDATION, PAVIA, ITALY
2022 – today	**Co-Director of the Pediatric Neuroscience Research Center** IRCCS MONDINO FOUNDATION, PAVIA, ITALY
2019 – 2022	**Senior researcher** IRCCS MONDINO FOUNDATION, PAVIA, ITALY
2016 – 2019	**Post-doc Research Fellow** SCIENTIFIC INSTITUTE IRCCS E. MEDEA, BOSISIO PARINI, ITALY
2010 – 2015	**Research Assistant / PhD** SCIENTIFIC INSTITUTE IRCCS E. MEDEA, BOSISIO PARINI, ITALY

TEACHING EXPERIENCE

2022 – today	**Class |** Developmental Psychology **Course |** Preparatory course for music therapy **Institute |** CONSERVATORIO VERDI, MILAN, ITALY
2022 – today	**Class |** Biology and Human Development **Course |** PhD Cognitive Brain Sciences **Institute |** IUSS, PAVIA, ITALY
2021 – today	**Class |** General Psychology **Course |** BSc Psychomotor and Occupational Therapy **Institute |** UNIVERSITÀ DI PAVIA, PAVIA, ITALY
2021 – today	**Class |** Psychometrics **Course |** BSc Psychomotor and Occupational Therapy **Institute |** UNIVERSITÀ DI PAVIA, PAVIA, ITALY
2021 – today	**Class |** Research methodology **Course |** Specialty in Developmental Neuropsychiatry **Institute |** UNIVERSITÀ DI PAVIA, PAVIA, ITALY
2020 – today	**Class |** Developmental Psychobiology **Course |** MSc Psychology Neuroscience and H. Sciences **Institute |** UNIVERSITÀ DI PAVIA, PAVIA, ITALY
2020 – 2021	**Class |** Methodology of Parent-Infant Observation **Course |** BSc Psychology **Institute |** UNIVERSITÀ DI MILANO BICOCCA, MILANO, ITALY
2019 – 2020	**Class |** Socio-Emotional Developmental Psychology **Course |** MSc Developmental Psychology **Institute |** UNIVERSITÀ DI MILANO BICOCCA, MILANO, ITALY

Tutor/supervisor for dissertations and internships of more than 30 students and trainees in Psychology and currently supervisor of one PhD student in Psychology.

CLINICAL EXPERIENCE

2018 – 2020	**Psychotherapy, private practice** MILANO, ITALY
2016 – 2019	**Psychotherapy** AGRES ONLUS, MASSINA DI CISLAGO, ITALY
2010 – 2015	**Autism therapist** AGRES ONLUS, MASSINA DI CISLAGO, ITALY

PROFESSIONAL MEMBERSHIPS

2022 – today	**Neuropsychology of Interactions Network (NOI)** Research member
2019 – today	**Separation and Closeness Experiences in the Neonatal Environment (SCENE)** Member of the steering group
2019 – today	**Fathers in Neonatal Environment, Shaping Salubrious Experiences (FINESSE)** Research member
2018 – today	**International Society of Psychoneuroendocrinology (ISPNE)** Regular member
2018 – today	**International Society for Developmental Psychobiology (ISDP)** Regular member
2017 – today	**Society for Research in Child Development (SRCD)** Regular member
2017 – today	**International Congress of Infant Studies (ICIS)** Regular member
2016 – 2018	**Italian Society of Relational Psychoanalysis (SIPRe)** Associate member
2009 – today	**Italian Board of Licensed Psychologists, Lombardy section (OPL)** Regular member

VISITING SCHOLARSHIPS

2019	**Columbia University, New York, USA** Contacts: Marta Welch, Bob Ludwig
2017	**University of Massachusetts, Boston, USA** Contact: Ed Tronick
2015	**University of British Columbia, Vancouver, Canada** Contact: Ruth Grunau, Tim Oberlander

ROLES IN THE SCIENTIFIC COMMUNITY

2021	**Israel Science Foundation |** Peer reviewer for research proposals
2021	**Department of Medicine, University of Porto, Portugal |** Member of the PhD committee (candidate: Carina Rodrigues)
2020	**National Research Fund, Luxembourg |** Peer reviewer for research proposals
2019	**National Science Center, Poland |** Peer reviewer for research proposals
2019	**Organization for Health Research and Development, Netherlands |** Peer reviewer for research proposals
2018	**Marie Sklodowska-Curie Individual Fellowships, European Commission |** Peer reviewer for research proposals

FUNDING

2022	**Ricerca Finalizzata – Ministero della Salute, Italy** GR-2021-12375213 [36 months; 450.000,00 Euros]
2022	**Banco del Monte di Lombardia** 2-BRAINS project [28.594,00 Euros]
2021	**Roche "Per la ricerca"** MOM-COPE project [12 months; 50.000,00 Euros]
2021	**COVID-19, Tuscany region grant** SPACE-NET project [12 months; 30.000,00 Euros]
2017	**Ricerca Finalizzata – Ministero della Salute, Italy** RF-2016-02361884 (co-PI) [36 months; 450.000,00 Euros]

AWARDS

2021	**Acta Paediatrica Foundation** International Young Investigator Award
2019	**International Society for Developmental Psychobiology (ISDP)** Travel Award
2018	**Pediatric Research journal** Early Career Investigator
2018	**Journal of Contemporary Psychotherapy** Most Valuable Paper Award
2017	**Società Italiana di Medicina Perinatale** Giorgio Pardi Foundation Award
2016	**Hacking Health International** Best Innovative Project
2015	**Banco del Monte di Lombardia** Progetto Professionalità Ivano Becchi

ACADEMIC THIRD MISSION EVENTS

2023	**Pint of Science Pavia 2022** *Sponsored by Pint of Science Italia* | c/o Il Modernista, Pavia One-shot scientific dissemination meeting open to citizens in the heart of Pavia.
2022	**Richiami per gli esseri umani** *Sponsored by Milano Book City 2022, University of Pavia, and Conservatorio G. Verdi of Milano* | c/o Conservatorio G. Verdi, Milano Dissemination to citizens on developmental psychobiology and neuroscience + live music
2022	**Canzoni contro la paura** *Sponsored by IRCCS Mondino Foundation and University of Pavia* | c/o piazza Cavagneria, Libreria "Il Delfino", Pavia Dissemination to citizens on developmental psychobiology and neuroscience + live music

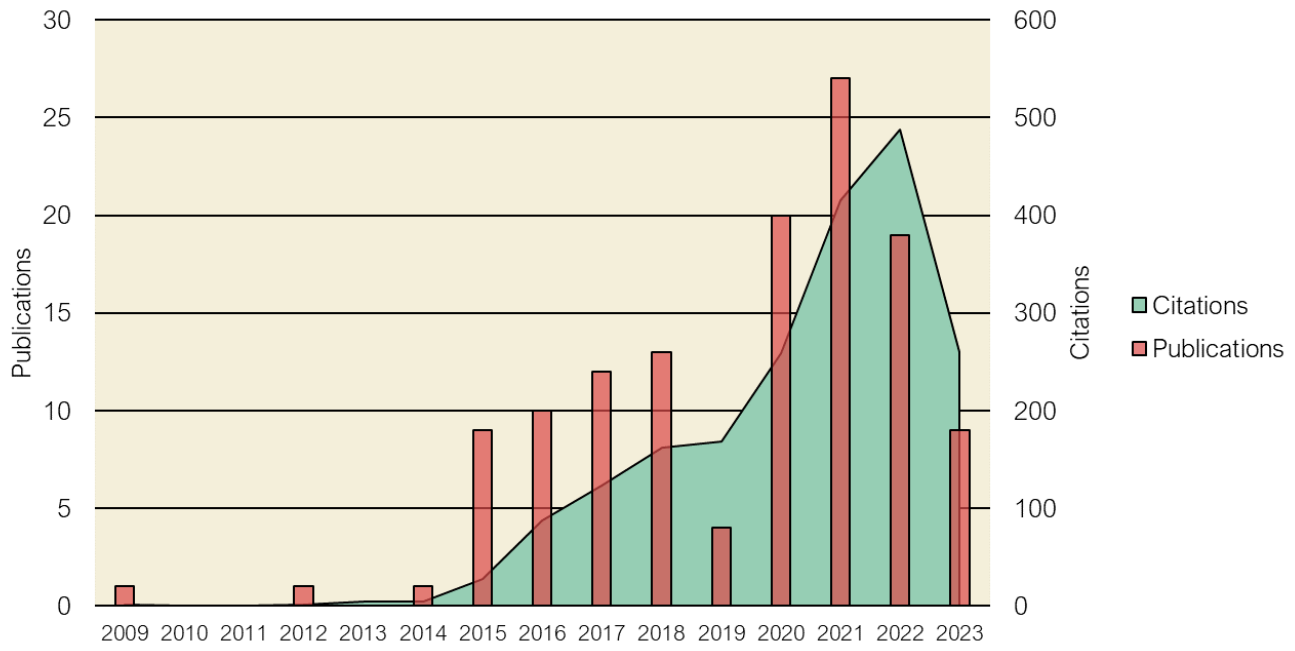
EDITORIAL ROLES

2021 – today	**PLOS ONE** Academic Editor
2021 – today	**Frontiers in Pediatric Psychology** Editor in Chief
2023 – today	**Infant Behavior and Development** Associate Editor
2018 – 2023	**Infant Behavior and Development** Member of the editorial board
2017 – 2021	**Frontiers in Developmental Psychology** **Frontiers in Quantitative Psychology and Measurement** Associate Editor

Further contributions on **Web of Science**: https://www.webofscience.com/wos/author/record/J-3174-2016

METRICS OF SCIENTIFIC PRODUCTION

126 papers, **2002** citations, **27** *h*-index, **332** co-authors



Source: Scopus, June 2023

COMPLETE LIST OF PEER-REVIEWED PAPERS

In press

1. Nazzari S, Grumi S, Mambretti F, Villa M, Giorda R, Pansarasa O, Bordoni M, Borgatti R, Provenzi L (2023) Sex-dimorphic pathways in the associations between maternal trait anxiety, infant BDNF methylation and negative emotionality. Development and Psychopathology, *in press*.
2. Varesio C, Zanaboni MP, Pasca L, Provenzi L, Ferraris C, Tagliabue A, Pezzotti E, Carpani A, Veggiotti P, De Giorgis V (2021) Novel insights into GLUT1 Deficiency Syndrome: Screening for emotional and behavioral problems in youths following ketogenic diet. Minerva Pediatrics, *in press*.

2023

3. Baradel G, Provenzi L, Chiappedi M, Orlandi M, Vecchio A, Borgatti R, Mensi MM (2023) The family caregiving environment associates with adolescent patients' severity of eating disorder and interpersonal problems: A cross-sectional study. Children, 10, 237.
4. Capelli E, Anceresi G, Grumi S, Provenzi L (2023) Stability of maternal postnatal bonding between 3 and 6 months: Associations with maternal mental health and infant temperament. Infant Behavior and Development, 71, 101826.
5. Castellini G, Acampora M, Provenzi L, Cagliero L, Lucini L, Barello S (2023) Health consciousness and pro-environmental behaviors in an Italian representative sample: A cross-sectional study. Scientific Reports, 13, 8846.
6. Nazzari S, Grumi S, Biasucci G, Decembrino L, Fazzi E, Giacchero R, Magnani ML, Nacinovich R, Scelsa B, Spinillo A, Capelli E, Roberti E, Provenzi L (2023) Maternal pandemic-related stress during pregnancy associates with infants' socio-cognitive development at 12 months: A longitudinal multi-centric study. Plos One, 18, e0284578.
7. Roberti E, Capelli E, Provenzi L (2023) Envisioning translational hyperscanning: How applied neuroscience might improve family-centered care. Social Cognitive and Affective Neuroscience, nsac061.

8. Provenzi L, Bussu G, Riva V (2023) Editorial: Risk and Protective Factors, Family Environment and (A)Typical Neurodevelopmental Outcomes. Frontiers in Psychology, 14:1221338.
9. Provenzi L, Grumi S, Altieri L, Bensi G, Bertazzoli E, Biasucci G, Cavallini A, Decembrino L, Falcone R, Freddi A, Gardella B, Giacchero R, Giorda R, Grossi E, Guerini P, Magnani ML, Martelli P, Motta M, Nacinovich R, Pantaleo D, Pisoni C, Prefumo F, Riva L, Scelsa B, Spartà MV, Spinillo A, Vergani P, Orcesi S, Borgatti R, MOM-COPE Study Group (2023) Prenatal maternal stress during the COVID-19 pandemic and infant regulatory capacity at 3 months: A longitudinal study. Development and Psyhopathology, 35, 35-43.
10. Vecchio A, Roberti E, Giovannetti Pulido S, Orlandi M, Provenzi L, Mensi M (2023) Only an inkblot? A literature review of the neural correlates of the Rorschach Inkblot Test. Neuroscience and Biobehavioral reviews, 152:105281.

2022

11. Adama EA, Koliouli F, Provenzi L, Feeley N, van Teijlingen E, Ireland J, Thomson-Salo F, Khashu M, FINESSE Group (2022) COVID-19 restrictions and psychological well-being of fathers with infants admitted to NICU – an exploratory cross-sectional study. Acta Paediatrica, 111, 1771-1778.
12. Capelli E, Grumi S, Fullone E, Rinaldi E, Provenzi L (2022) An update on social touch: How does humans' social nature emerge at the periphery of the body? Rorschachiana, 43, 168-185.
13. Coci C, Provenzi L, De Giorgis V, Borgatti R, Chiappedi M, Mensi MM, Modino Foundation Eating Disorders Clinical and Research Group (2022) Family dysfunctional interactive patterns and alexithymia in adolescent patients with restrictive eating disorders. Children, 9, 1038.
14. Gagliardi L, Grumi S, Gentile M, Cacciavellani R, Placidi G, Vaccaro A, Maggi C, Gambi B, Magi L, Crespin L, Memmini G, DeFilippo M, Verucci E, Malandra L, Mele L, Azzarà A, Provenzi L (2022) The COVID-related mental health load of neonatal healthcare professionals: A multicenter study in Italy. Italian Journal of Pediatrics, 48, 136.
15. Grumi S, Capelli E, Giacchero R, Anceresi G, Fullone E, Provenzi L (2022) Exclusive breastfeeding and maternal postnatal anxiety contributed to infants' temperament issues at 6 months of age. Acta Paediatrica, 111, 1380-1382.
16. Grumi S, Morelli F, Mascherpa E, Decortes F, Luparia A, Provenzi L, Signorini S, VIDA Group (2022) Patient- and parent-reported outcome measures of developmental adaptive abilities in visually impaired children: The Visual Impairment Developmental Autonomy (VIDA) scale. Research in Developmental Disabilities, 131, 104331.
17. Grumi S, Pettenati G, Manfredini V, Provenzi L (2022) Flexibility and organization in parent-child interaction through the lens of the dynamic system approach: A systematic review of State Space Grid studies. Infant Behavior and Development, 67, 101722.
18. Grumi S, Provenzi L, Aramini V, Dargenio E, Gardani A, Naboni C, Vacchini V, Manfredini V, Pettenati G, Borgatti R (2022) The lockdown experience during the Covid-19 outbreak in parents of children with disabilities: Psychological response and tele-rehabilitation | L'esperienza del lockdown durante l'emergenza Covid-19 in genitori di bambini con disabilità Risposta psicologica e intervento di tele-riabilitazione. Psicologia Clinica dello Sviluppo, 26, 101-124.
19. Nazzari S, Grumi S, Ciotti S, Merusi I, Provenzi L, Gagliardi L (2022) Determinants of emotional distress in neonatl healthcare professionals: An exploratory analysis. Frontiers in Public Health, 10, 968789.
20. Nazzari S, Grumi S, Mambretti F, Villa M, Giorda R, Provenzi L (2022) Maternal and infant NR3C1 and SLC6A4 epigenetic signatures of the COVID-19 pandemic lockdown: When timing matters. Translational Psychiatry, 12, 386.
21. Nazzari S, Grumi S, Villa M, Mambretti F, Biasucci G, Decembrino L, Giacchero R, Magnani ML, Nacinovich R, Prefumo F, Spinillo A, Veggiotti P, Fullone E, Giorda R, Provenzi L (2022) Sex-dependent association between variability in infants' OXTR methylation at birth and negative affectivity at 3 months. Psychoneuroendocrinology, 145, 105920.
22. Provenzi L, Gori M, Maffongelli L, Signorini S (2022) Editorial: Understanding the socio-emotional and socio-cognitive developmental pathways in children with sensory impairment. Frontiers in Psychology, 13, 1118451.
23. Provenzi L, Grumi S (2022) The need to study developmental outcomes of children born during the COVID-19 pandemic. JAMA Pediatrics, 176(1), 103.
24. Provenzi L, Grumi S, Rodrigo MJ (2022) Editorial: Neural and epigenetic factors in parenting, individual differences and dyadic processes. Brain Sciences, 12, 478.
25. Provenzi L, Pettenati G, Luparia A, Paini D, Aprile G, Morelli F, Mascherpa E, Vercellino L, Grumi S, Signorini S (2022) Case report: Dancing in the dark: A critical single case study engaging a blind father in the rehabilitation journey of his visually impaired child. Frontiers in Psychology, 13, 942321.
26. Provenzi L, Villa M, Mambretti F, Citterio A, Grumi S, Bertazzoli E, Biasucci G, Decembrino L, Gardella B, Giacchero R, Magnani ML, Nacinovich R, Pisoni C, Prefumo F, Orcesi S, Scelsa B, Giorda R, Borgatti R, MOM-COPE Study Group (2022) Is brain-derived neurotropic factor methylation involved in the association between prenatal stress and maternal postnatal anxiety during the COVID-19 pandemic? Frontiers in Psychiatry, 13, 950455
27. Roberti E, Giacchero R, Grumi S, Biasucci G, Cuzzani L, Decembrino L, Magnani ML, Motta M, Nacinovich R, Pisoni C, Scelsa B, Provenzi L, MOM-COPE Study Group (2022) Women's pandemic-related anxiety and parenting stress: Home-visiting protective effect. Maternal and Child Health Journal, 26, 2308-2317.

28. Rogantini C, Provenzi L, Borgatti R, Martina M (2022) Behavioral problems in psychotic, clinically high-risk, and non-psychotic adolescent patients. Annals of General Psychiatry, 21, 43.
29. Romaniello R, Gagliardi C, Desalvo P, Provenzi L, Battini R, Bertini E, Bonati MT, Briguglio M, D'Arrigo S, Dotti MT, Giordano L, Macaluso C, Moroni I, Nuovo S, Santucci M, Signorini S, Stanzial F, Valente EM, Borgatti R (2021) Challenges and resources in adult life with Joubert Syndrome: Issues from an international classification of functioning (ICF) perspective. Disability and Rehabilitation, 44, 4966-4973.

2021

30. Bader LR, Tan L, Gonzalez R, Saini EK, Bae Y, Provenzi L, Volling BL (2021) Adrenocortical interdependence in father-infant and mother-infant dyads: Attunement or something more? Developmental Psychobiology, 63, 1534-1548.
31. Barello S, Savarese M, Giusti L, Brambilla M, Scotto di Minico G, Provenzi L (2021) More than words: Methodological potentials of graphical elicitation with parents of preterm infants. Minerva Pediatrics, 73(4), 307-315.
32. Baschenis IMC, Farinotti L, Zavani E, Grumi S, Bernasconi P, Rosso E, Provenzi L, Borgatti R, Termine C, Chiappedi M (2021) Reading skills of children with dyslexia improved less than expected during the COVID-19 lockdown in Italy. Children, 8, 560.
33. Berretta E, Guida E, Forni D, Provenzi L (2021) Glucocorticoid receptor gene (NR3C1) methylation during the first 1000 days: Environmental exposures and developmental outcomes. Neuroscience and Biobehavioral Reviews, 125, 493-502.
34. Caporali C, Pisoni C, Naboni C, Provenzi L, Orcesi S (2021) Challenges and opportunities for early intervention and neurodevelopmental follow-up in preterm infants during COVID-19 pandemic. Child Care Health and Development, 47, 140-141.
35. Desmarais E, Brown K, Campbell K, French B, Putnam S, Casalin S, Linhares MBM, Lecannelier F, Wang Z, Raikkonen K, Heinonen K, Tuovinen S, Montirosso R, Provenzi L, Park SY, Han SY, Lee EG, Huitron B, de Weerth C, Beijers R, Majdandzic M, Benga O, Slobodskaya H, Kozlova E, Gonzalez-Salinas C, Acar I, Ahmetoglu E, Gartstein M (2021) Links between television exposure and toddler dysregulation: Does culture matter? Infant Behavior and Development, 63, 101557.
36. Fumagalli M, Provenzi L, Sorrentino G, Ciceri F, Fontana C, Passera S, Moncecchi M, Plevani L, Laquintana D, Borgatti R, Mosca F, Montirosso R (2021) Self-report and biological indexes of work-related stress in neonatal healthcare professionals. A repeated-measures observational study. Advances in Neonatal Care, 21, E120-E128.
37. Grumi S, Borgatti R, Provenzi L (2021) Supporting Parenting at Home-Empowering Rehabilitation through Engagement (SPHERE): study protocol for a randomized control trial. BMJ Open, 11, e051817.
38. Grumi S, Cappagli G, Aprile G, Mascherpa E, Gori M, Provenzi L, Signorini S (2021) Togetherness, beyond the eyes: A systematic review on the interaction between visually impaired children and their parents. Infant Behavior and Development, 64, 101590.
39. Grumi S, Provenzi L, Accorsi P, Biasucci G, Cavallini A, Decembrino L, Falcone R, Fazzi EM, Gardella B, Giacchero R, Guerini P, Grossi E, Magnani ML, Mariani EM, Nacinovich R, Pantaleo D, Pisoni C, Prefumo F, Sabatini C, Scelsa B, Spartà MV, Spinillo A, Giorda R, Orcesi S, Borgatti R (2021) Depression and anxiety in pregnant women during the COVID-19 outbreak in Italy: The role of emotional stress and social support. Frontiers in Psychiatry, 12, 1513.
40. Grumi S, Provenzi L, Gardani A, Aramini V, Dargenio E, Naboni C, Vacchini V, Borgatti R, EnFORCE Group (2021) Rehabilitation services lockdown during the COVID-19 emergency: the mental health response of caregivers of children with neurodevelopmental disabilities. Disability and Rehabilitation, 43, 27-32.
41. Grumi S, Saracino A, Volling B, Provenzi L (2021) A systematic review of human paternal oxytocin: Insights into the methodology and what we know so far. Developmental Psychobiology, 63, 1330-1344.
42. Mensi MM, Orlandi M, Rogantini C, Provenzi L, Chiappedi M, Criscuolo M, Castiglioni MC, Zanna V, Borgatti R (2021) Assessing family functioning before and after an integrated multidisciplinary family treatment for adolescents with restrictive eating disorders. Frontiers in Psychiatry, 12, 653047.
43. Mensi MM, Rogantini C, Provenzi L, Borgatti R (2021) Rating behavioral problems in adolescent eating disorders: Parent-child differences. Psychiatry Research, 298, 113836.
44. Parravicini S, Provenzi L, Barello S, Nania T, Grumi S, Rinaldi E, Orcesi S, Borgatti R (2021) The experience of child neuropsychiatry residents who volunteered in Italian COVID-19-designated hospitals. Academic Psychiatry, 45, 587-592.
45. Pisoni C, Provenzi L, Moncecchi M, Caporali C, Naboni C, Stronati M, Montirosso R, Borgatti R, Orcesi S (2021) Early parenting intervention promotes 24-month psychomotor development in preterm children. Acta Paediatrica, 110, 101-108.
46. Provenzi L (2021) The burden of Europe's immigration crisis on mother-child healthcare services and opportunities for culturally sensitive family-centred care. Acta Paediatrica, 110, 19-21.
47. Provenzi L, Borgatti R (2021) Potentials of telerehabilitation for families of children with special health care needs during the coronavirus disease 2019 emergency. JAMA Pediatrics, 175, 105.
48. Provenzi L, Grumi S, Gardani A, Aramini V, Dargenio E, Naboni C, Vacchini V, Borgatti R, EnFORCE Group (2021) Italian parents welcomed a telehealth family-centred rehabilitation programme for children with disability during COVID-19 lockdown. Acta Paediatrica, 110, 194-196.
49. Provenzi L, Grumi S, Rinaldi E, Giusti L (2021) The porridge-like framework: A multidimensional guidance to support parents of children with developmental disabilities. Research in Developmental Disabilities, 117, 104048.

50. Provenzi L, Lindstedt J, De Coen K, Gasparini L, Peruzzo D, Grumi S, Arrigoni F, Ahlqvist-Bjorkroth S (2021) The paternal brain in action: A review of human fathers' fMRI brain responses to child-related stimuli. Brain Sciences, 11, 816.
51. Provenzi L, Mambretti F, Villa M, Grumi S, Citterio A, Bertazzoli E, Biasucci G, Decembrino L, Falcone R, Gardella B, Longo R, Nacinovich R, Pisoni C, Prefumo F, Orcesi S, Scelsa B, Giorda R, Borgatti R, MOM-COPE Study Group (2021) Hidden pandemic: COVID-19-related stress, *SLC6A4* methylation, and infants' temperament at 3 months. Scientific Reports, 11, 15658.
52. Rabie D, Provenzi L, Matta N, Montirosso R (2021) Stress and perceived support in mothers of infants admitted to the neonatal intensive care unit in Egypt. A global, 21, E101-E109.
53. Rogantini C, Provenzi L, Mensi MM (2021) Prioritizing family-centered mental health care for pediatric patients with eating disorders. JAMA Pediatrics, 175, 324.
54. Tronick E, Grumi S, Provenzi L (2021) The three-plague nature of COVID-19 pandemic: Implications for women and children and exposure to violence. Pediatric Emergency Care, 37, e89-e90.
55. Zanaboni MP, Pasca L, Villa BV, Faggio A, Grumi S, Provenzi L, Varesio C, De Giorgis V (2021) Characterization of speech and language phenotype in GLUT1DS. Children, 8, 344.
56. Zanaboni MP, Varesio C, Pasca L Foti A, Totaro M, Celario M, Provenzi L, De Giorgis V (2021) Systematic review of executive functions in children with self-limited epilepsy with centrotemporal spikes. Epilepsy & Behavior, 123, 108254.

2020

57. Caporali C, Pisoni C, Gasparini L, Ballante E, Zecca M, Orcesi S, Provenzi L (2020) A global perspective on parental stress in the neonatal intensive care unit: a meta-analytic study. Journal of Perinatology, 40, 1739-1752.
58. Cassiano R, Provenzi L, Linhares MB, Gaspardo C, Montirosso R (2020) Does preterm birth affect child temperament? A meta-analytic study. Infant Behavior and Development, 58, 101417.
59. Dallavalle G, Pezzotti E, Provenzi L, Toni F, Carpani A, Borgatti R (2020) Migraine Symptoms Improvement During the COVID-19 Lockdown in a Cohort of Children and Adolescents. Frontiers in Neurology, 11, 579047.
60. Mensi MM, Rogantini C, Nacinovich R, Riva A, Provenzi L, Chiappedi M, Balottin U, Borgatti R (2020) Clinical features of adolescents diagnosed with eating disorders an at risk for psychosis. European Psychiatry, 63(1), e80.
61. Montirosso R, Rosa E, Giorda R, Fazzi E, Orcesi S, Cavallini A, Provenzi L, Early Intervention Study Group (2020) Early Parenting Intervention – Biobehavioral Outcomes in infants with neurodevelopmental Disabilities (EPI-BOND): Study protocol for an Italian multicenter randomized controlled trial. BMJ Open, 10, e035249.
62. Provenzi L, Barello S (2020) The Science of the Future: Establishing a Citizen-Scientist Collaborative Agenda after Covid-19. Frontiers in Public Health, 8, 282.
63. Provenzi L, Baroffio E, Borgatti R (2020) How to help children to cope with coronavirus emergency. Quaderni ACP, 27(3), 116-117.
64. Provenzi L, Baroffio E, Ligabue S, Borgatti R (2020) The little professor and the virus. Scaffolding children's meaning making during the COVID-19 emergency. Frontiers in Psychiatry, 11, 817.
65. Provenzi L, Brambilla M, Scotto di Minico G, Montirosso R, Borgatti R (2019) Maternal caregiving and DNA methylation in human infants and children: Systematic review. Genes, Brain and Behavior, 19(3), e12616.
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72. Provenzi L, Tronick E (2020) The power of disconnection during the Covid-19 emergency: From isolation to reparation. Psychological Trauma: Theory, Research, Practice, and Policy, 12(S1), S252-S254.
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BOOKS

1. Provenzi L, Grumi S, Borgatti R (2023) Family-centered care in childhood disability: Theory, research, and practice. Springer.
2. Provenzi L (2021) Psicobiologia dello sviluppo: Principi, processi, applicazioni. Carocci.
3. Provenzi L, Montirosso R (2020). Developmental Human Behavioral Epigenetics: Principles, Methods, Evidence, and Future Directions. Academic Press.

CHAPTERS

1. Roberti E, Parsanejad S, Provenzi L (2023) Sotto la pelle : Epigenetica comportamentale e stress precoce nel bambino a rischio evolutivo. In : GIPCI (ed.) Lo sviluppo dell'organizzazione funzionale del cervello in età evolutiva. Nuove conoscenze e implicazioni riabilitative. Franco Angeli : Milano (IT).
2. Provenzi L, Rinaldi E, Tronick E (2021). Le paradigme du "Visage impassible": Régulation du stress dans la dyade mère-bébé. In: Smith J (ed.) Le grand livre des 1000 premiers jours de vie. Dunod Editeur: Paris (FR).
3. Montirosso R, Provenzi L (2017). Implications of epigenetics in developmental care of preterm infants in the NICU: Preterm Behavioral Epigenetics. In: Filippa M, Kuhn P, Westrup B (eds.) Early vocal contact and preterm infant brain development: Bridging the gaps between research and practice, 295-310. Springer International Publishing: Cham (CH).
4. Provenzi L, Barello S, Graffigna G (2016). Caregiver Engagement in the Neonatal Intensive Care Unit: Parental Needs, Engagement Milestones, and Action Priorities for Neonatal Healthcare of Preterm Infants. In: Graffigna G, Barello S, Triberti S (eds.) Patient Engagement: A consumer-centered model to innovate healthcare, 94-107. De Gruyter Open: Warsaw (PL).
5. Provenzi L, Borgatti R, Montirosso R (2016). The light side of preterm behavioral epigenetics. An epigenetic perspective on caregiver engagement. In: Graffigna G (ed.) Patient engagement and participation for effective healthcare reform. IGI Global: Hershey, PA (USA).
6. Putnam SP, Gartstein MA, Montirosso R, Provenzi L, Wang Z (2018). Summary and future directions. In: Gartstein Ma, Putnam SP (eds.) Toddlers, Parents and Culture: Findings from the joint effort toddler temperament consortium. Routledge: London.

EDITED SPECIAL ISSUES

1. Provenzi L, Fuertes M, Nazzari S, Mariani Wigley I (2022-2023) From Social Wires to Neurobiological Connections: A Neuropsychobiological Focus on Parent-Child Interaction. Frontiers in Behavioral Neuroscience.

2. Provenzi L, Wright C, Xu Z, Mueller I, Billeci L (2022-2023) Climate Change Challenge in Pediatric Psychology. Frontiers in Pediatric Psychology.
3. Riva V, Bussu G, Provenzi L (2022-2023) Risk and Protective Factors, Family Environment and (A)Typical Neurodevelopmental Outcomes. Frontiers in Pediatric Psychology.
4. Provenzi L, Gori M, Signorini S, Maffongelli L (2020-2021) Understanding the socio-emotional and socio-cognitive developmental pathways in children with sensory impairment. Frontiers in Psychology.
5. Provenzi L, Grumi S (2020-2021) The early epigenetic determinants of social stress and emotion regulation in young infants and children. International Journal of Environmental Research and Public Health.
6. Rodrigo MJ, Provenzi L (2020-2021) neural and epigenetic factors in parenting: Individual differences and dyadic processes. Brain Sciences.
7. Montirosso R, Provenzi L, Tronick E (2018-2019) Risk and protective factors associated with early adversity and development: Evidence from human and animal research. Frontiers in Behavioral Neuroscience.

INTERNATIONAL CHAIRED SYMPOSIUMS

1. Provenzi L (2023) Born to be wired: The relevance of the early social interactions for infant mental health. WAIMH. Dublin (Ireland), July.
2. Provenzi L, Barone L (2021) La genitorialità come fattore protettivo per lo sviluppo: Una prospettiva evolutiva dai primi mesi di vita all'adolescenza. XXXIII Congresso Nazionale AIP, Sezione Psicologia dello Sviluppo e dell'Educazione. Bari (Italy), September.
3. Provenzi L (2020) How adverse caregiving conditions affect offspring developmental trajectories: Evidence form longitudinal studies. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Virtual, August.
4. Carter S, Provenzi L (2020) Fathers' neurobiology: Evidence from human studies and animal models research. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Virtual, August.
5. Provenzi L, Cirulli F (2019) How early adversities get under the skin. A behavioral epigenetic perspective across human development. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Milan (Italy), August.
6. Provenzi L, Fananas L (2019) Biomarkers of stress and care in the preterm infants. Evidence from animal models and human studies. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Milan (Italy), August.
7. Provenzi L, Conradt E, Oberlander T (2018) How early experiences get under the skin: Epigenetic mechanisms linking adversity exposure, maternal care and infants' developmental outcomes. World Association of Infant Mental Health (WAIMH) biennial congress. Rome (Italy), August.

INTERNATIONAL KEYNOTES / INVITED TALKS

1. Provenzi L (2023) Match, break, repair, grow: A psychobiological journey into human togetherness. 43rd Annual Conference of the Society for Reproductive and Infant Psychology (SRIP). Lausanne (Switzerland). September.
2. Provenzi L (2023) Born to be wired: Behavioral epigenetics of ruptures and reparations. EADP ERU Writing Week, Rethymnos, Crete (Greece), April.
3. Provenzi L (2023) Toward a culture of frailty: Time to translate psychobiology of stress to neonatal care settings. 8th European Regional ABM Conference. Spalato (Croatia), September.
4. Provenzi L (2022) Epigenetic footprints: How did the pandemic affect maternal and infants' health? CIBERSAM. Barcelona (Spain), September.
5. Provenzi L (2022) From separation to reparation: Psychobiological aspects of pandemic stress during pregnancy. The 13th Dresden Symposium ESPR Spring School. Dresden (Germany), March.
6. Provenzi L (2022) Chasing the footprints of the early caregiving environment: Insights for care from a behavioral epigenetic perspective. Conference on Ultra-Early Intervention. Lund (Sweden), March.
7. Provenzi L (2022) Chasing footprints of early adversities in at-risk babies. 35th Gravens Annual Conference. Clearwater Beach, Florida (USA), March.
8. Provenzi L (2021) The hidden pandemic: Psychobiological footprints of prenatal COVID-related stress. COVGEN meeting. Chicago (USA), November.
9. Provenzi L (2021) Under the skin: Behavioral epigenetics and early stress in preterm infants. IX Update Course on Childhood Neurorehabilitation, Fondazione Mariani. Padova (Italy), November.

10. Provenzi L (2021) The hidden pandemic: Psychobiological footprints of pandemic-related stress in pediatric populations. IBRO Webinar: Neuroscience & COVID-19. Virtual, July.
11. Provenzi L (2021) Epigenetic fingerprints of separation and closeness: Insights for NICU care. 8th SCENE symposium. Tallinn (Estonia), May.
12. Provenzi L (2020) Life getting under the skin. Epigenetic mechanisms and developmental programming in preterm infants. 2020 Science and Soul Congress. Lisbon (Portugal), February.
13. Provenzi L (2020) Epigenetic fingerprints: Psychobiological insights into human emotional connections. Swiss Center for Affective Sciences. Geneve (CH), November.
14. Provenzi L (2019) Epigenetic regulation by early adverse experiences in the NICU: Biochemical pathways to preterm infants' outcomes. Conference: When sense makes sense. Glasgow (Scotland), May.

OTHER SELECTED ORAL PRESENTATIONS AT INTERNATIONAL MEETINGS

1. Livio Provenzi, Fabiana Mambretti, Marco Villa, Serena Grumi, Andrea Citterio, Emanuela Bertazzoli, Giacomo Biasucci, Lidia Decembrino, Rossana Falcone, Barbara Gardella, Roberta Longo, Renata Nacinovich, Camilla Pisoni, Federico Prefumo, Simona Orcesi, Barbara Scelsa, Roberto Giorda, Renato Borgatti, MOM-COPE Study Group (2021) La pandemia nascosta: Impronte epigenetiche dello stress prenatale durante l'emergenza COVID-19. XXXIII Congresso Nazionale AIP, Sezione Psicologia dello Sviluppo e dell'Educazione. Bari (Italy), September.
2. Provenzi L (2019) Preterm Behavioral Epigenetics: DNA methylation and telomere length regulation as biomarkers of early adversities and developmental risk in very preterm infants. Poland, April 6th-9th. XXVII European Congress of Psychiatry (EPA).
3. Provenzi L (2019) Through the mirror: Supporting parenting through video-feedback in Italy. Hungary, November. 7th SCENE symposium.
4. Provenzi L (2017) Stress exposure associates with telomere length erosion in very preterm infants. Italy, October. From activity to interactivity.
5. Provenzi L (2017) Voices from the rollercoaster: Becoming mothers and fathers in the NICU. Belgium, September. 5th SCENE symposium.
6. Provenzi L (2017) Preterm Behavioral Epigenetics. Italy, January. XIX National Congress of the Italian Society of Perinatal Medicine.
7 . Provenzi L (2016) How DNA methylation of stress-related genes contribute to the socio-emotional development of very preterm infants? Italy, September. Early Experience and Sensitive Periods in Development.

SELECTION OF POSTERS AT INTERNATIONAL MEETINGS

1. Livio Provenzi, Fabiana Mambretti, Marco Villa, Serena Grumi, Andrea Citterio, Emanuela Bertazzoli, Giacomo Biasucci, Lidia Decembrino, Rossana Falcone, Barbara Gardella, Roberta Longo, Renata Nacinovich, Camilla Pisoni, Federico Prefumo, Simona Orcesi, Barbara Scelsa, Roberto Giorda, Renato Borgatti, MOM-COPE Study Group (2022) The hidden pandemic: COVID-19-related stress, SLC6A4 methylation, and infants' temperament at 3 months. International Conference on Infant Studies (ICIS) annual congress. Ottawa (Canada), July.
2. Eleonora Fullone, Livio Provenzi, Fabiana Mambretti, Marco Villa, Serena Grumi, Andrea Citterio, Emanuela Bertazzoli, Giacomo Biasucci, Lidia Decembrino, Rossana Falcone, Barbara Gardella, Roberta Longo, Renata Nacinovich, Camilla Pisoni, Federico Prefumo, Simona Orcesi, Barbara Scelsa, Roberto Giorda, Renato Borgatti, MOM-COPE Study Group (2021) The hidden pandemic: The hidden pandemic: COVID-19-related maternal prenatal stress may affect infants' SLC6A4 methylation at birth and temperament at 3 months. International Society of Developmental Psychobiology. Chicago (USA), November.
3. Provenzi L, Giorda R, Fumagalli M, Morandi F, Sotto di Minico G, Mosca F, Borgatti R, Montirosso R (2019) NICU-related stress exposure, telomere length erosion and HPA axis stress reactivity in very preterm infants. Baltimore MD, March 22nd. Society for Research in Child Development.
4. Giusti L, Piazza C, Provenzi L, Ferrari P, Reni G, Borgatti R, Montirosso R (2017) Exploring the EEG mu Rhythm During an Imitation Task in 13-Month-old Preterm Infants. Austin TX, April, 6th – 8th. Society for Research in Child Development.
5. Provenzi L, Giusti L, Ciceri F, Borgatti R, Montirosso R (2017) Salivary Cortisol Synchrony in Dyads of Full-Term and Very Preterm 3-Month-old Infants. Austin TX, April, 6th – 8th. Society for Research in Child Development.
6. Provenzi L, Giorda R, Fumagalli M, Pozzoli U, Morandi F, Beri S, Sirgiovanni, Menozzi G, Borgatti R, Mosca F, Montirosso R (2016). SLC6A4 methylation and socio-emotional stress response to the Still-Face Paradigm in very preterm and full-term infants. New Orleans LA, May, 26th - 28th. International Conference on Infant Studies.

7. Casini E, Provenzi L, Del Prete A, Zanini R, Borgatti R, Montirosso R (2015). Internalizing behaviors at 18 months in children born preterm associated with quality of developmental care in 22 Italian NICUs. Philadelphia PA, March, 19th – 21th. Society for Research in Child Development.
8. Provenzi L, Casini E, Fumagalli M, Giorda R, Pozzoli U, Morandi F, Sirgiovanni I, Beri S, Menozzi G, Mosca F, Borgatti R, Montirosso R (2015). SLC6A4 methylation is associated with social stress reactivity in 3-month-old very preterm infants. Philadelphia PA, March, 19th – 21th. Society for Research in Child Development.
9. Provenzi L, Coin R (2015). The rock and the lightning rod: MMPI-2 and Rorschach correlates of couple's unconscious functionality emerging through collaborative assessment. Austin TX, September, 11th – 13th. Inaugural International Collaborative/Therapeutic Assessment Conference.
10. Provenzi L, Tronick E, Borgatti R, Morandi F, Reni G, Montirosso R (2014). Four-month-old infants' long-term memory for a stressful social event measured by respiratory sinus arrhythmia. Berlin, July, 3rd – 5th. XIX Biennial International Conference on Infant Studies.
11. Montirosso R, Provenzi L, Tavian D, Ciceri F, Missaglia S, Tronick E, Morandi F, Borgatti R (2012). 5-HTTLPR polymorphism is associated to differences in behavioral response and HPA reactivity to a social stressor in 4-month-old infants. Minneapolis MN, June, 7th – 9th. XVIII Biennial International Conference on Infant Studies.

I authorize the processing of my personal data pursuant to DL 196/2003, DL 101/2018, and art. 13 of the GDPR (EU Regulation 2016/679) for the purpose of personnel search and selection.

Pavia, June 6th 2023

Livio Provenzi