

# Livio Provenzi

Ricercatore – Psicologo and Psicoterapeuta



Nato	11.11.1984
Indirizzo	Via Spezia 43, 20142 Milano
Contatti	+39 348 7853879 <a href="mailto:livio.provenzi@unipv.it">livio.provenzi@unipv.it</a> ; <a href="mailto:livio.provenzi@mondino.it">livio.provenzi@mondino.it</a>
Web	<a href="http://www.livioprovenzi.com">www.livioprovenzi.com</a>
ORCID	<a href="https://orcid.org/0000-0001-7424-8744">https://orcid.org/0000-0001-7424-8744</a>

## BREVE BIO

---

Ho ricevuto la Laurea Magistrale in Psicologia Clinica nel 2008 e il Dottorato in Psicologia nel 2016 presso Università Cattolica, Milano. Dal 2008 al 2019 ho svolto attività clinica e di ricerca presso il Centro 0-3 dell'Istituto Scientifico IRCCS E. Medea di Bosisio Parini, Lecco. Da novembre 2019 sono ricercatore per IRCCS Fondazione Mondino, Pavia. Da Febbraio 2022 sono ricercatore a tempo determinate (b) presso il Dipartimento del Sistema Nervoso e del Comportamento dell'Università di Pavia. Nei miei progetti di ricerca integro metodologia delle scienze comportamentali, dell'infant research, della neuroendocrinologia, dell'epigenetica e delle neuroscienze per comprendere come ciò che succede tra di noi – le relazioni umane – contribuisce a plasmare ciò che succede dentro di noi – le connessioni neurobiologiche che ci rendono chi siamo. Mi occupo di studiare le dimensioni neuropsicobiologiche sottese alle precoci connessioni umane in condizioni di sviluppo tipico e atipico, come nascita pretermine, deficit sensoriale, ritardo psicomotorio, alterazioni ambientali. Un'attenzione specifica ai primi mille giorni di vita e al ruolo della precoce interazione genitore-bambino caratterizza ulteriormente la mia linea di ricerca. Sono autore di più di 100 lavori su rivista scientifiche internazionali. Sono membro del gruppo di ricerca internazionale Separation and Closeness Experiences in the Neonatal Environment (SCENE), Editor in Chief per Frontiers in Pediatric Psychology e membro del comitato editoriale di Infant Behavior and Development e Plos One. Ho pubblicato due libri: Developmental Human Behavioral Epigenetics (Elsevier) nel 2020, insieme a Rosario Montiroso, e Psicobiologia dello Sviluppo (Carocci) nel 2021.

**ISTRUZIONE**

2016	<b>Dottorato in Psicologia</b> UNIVERSITÀ CATTOLICA, MILANO
2016	<b>Abilitazione alla professione psicoterapeutica</b> SIPRe, MILANO
2012	<b>Specializzazione post-lauream</b> THERAPEUTIC ASSESSMENT INSTITUTE, AUSTIN, TX, USA
2008	<b>Laurea Magistrale – Psicologia Clinica</b> UNIVERSITÀ CATTOLICA, MILANO
2006	<b>Laurea Triennale – Scienze e Tecniche Psicologiche</b> UNIVERSITÀ CATTOLICA, MILANO

**ATTIVITÀ SCIENTIFICA**

2022 – today	<b>Ricercatore a Tempo Determinato, b (art. 24 c.3-b L. 240/10)</b> UNIVERSITÀ DI PAVIA
2019 – today	<b>Ricercatore</b> IRCCS FONDAZIONE MONDINO, PAVIA
2016 – 2019	<b>Ricercatore post-doc</b> IRCCS E. MEDEA, BOSISIO PARINI, LECCO
2010 – 2015	<b>Assistente di ricerca</b> IRCCS E. MEDEA, BOSISIO PARINI, LECCO

**ATTIVITÀ DIDATTICA**

2022 – today	<b>Biology and Human Development</b> PhD Cognitive Brain Sciences IUSS, PAVIA
2021 – today	<b>Psicologia Generale</b> Laurea in Terapia della Neuro e Psicomotricità dell'Età Evolutiva UNIVERSITÀ DI PAVIA
2021 – today	<b>Psicometria</b> Laurea in Terapia della Neuro e Psicomotricità dell'Età Evolutiva UNIVERSITÀ DI PAVIA
2021 – today	<b>Metodologia della ricerca</b> Specialità in Neuropsichiatria dell'Infanzia e dell'Adolescenza UNIVERSITÀ DI PAVIA
2020 – today	<b>Developmental Psychobiology</b> MSc Psychology, Neuroscience and Human Sciences UNIVERSITÀ DI PAVIA, PAVIA, ITALY
2020 – 2021	<b>Metodi di Valutazione dell'Interazione e della Regolazione Emotiva Genitore / Bambino</b> Laurea Triennale – Scienze e Tecniche Psicologiche UNIVERSITÀ DI MILANO BICOCCA, MILANO
2019 – 2020	<b>Psicologia dello Sviluppo Socio-Affettivo</b> Laurea Magistrale – Psicologia dello Sviluppo e dei Processi Educativi UNIVERSITÀ DI MILANO BICOCCA, MILANO

Tutor/supervisore di più di 20 studenti per tesi e tirocinio post-laurea.

**ESPERIENZA CLINICA**

2018 – 2020	<b>Psicoterapia, attività privata</b> MILANO
2016 – 2019	<b>Psicoterapia</b> AGRES ONLUS, MASSINA DI CISLAGO, VARESE
2010 – 2015	<b>Terapista autismo</b> AGRES ONLUS, MASSINA DI CISLAGO, VARESE

**AFFILIAZIONI SCIENTIFICHE**

2022 – today	<b>Neuropsychology of Interactions Network (NOI)</b> Membro del gruppo di ricerca nazionale
2019 – today	<b>Separation and Closeness Experiences in the Neonatal Environment (SCENE)</b> Membro del gruppo di ricerca internazionale
2019 – today	<b>Fathers in Neonatal Environment, Shaping Salubrious Experiences (FINESSE)</b> Membro del gruppo di ricerca internazionale
2018 – today	<b>International Society of Psychoneuroendocrinology (ISPNE)</b> Membro associato
2018 – today	<b>International Society for Developmental Psychobiology (ISDP)</b> Membro associato
2017 – today	<b>Society for Research in Child Development (SRCD)</b> Membro associato
2017 – today	<b>International Congress of Infant Studies (ICIS)</b> Membro associate
2016 – 2018	<b>Italian Society of Relational Psychoanalysis (SIPRe)</b> Socio
2009 – today	<b>Ordine degli Psicologi della Lombardia (OPL)</b> Abilitato alla professione

**PERIODI ALL'ESTERO**

2019	<b>Columbia University, New York, USA</b> Contatti: Marta Welch, Bob Ludwig
2017	<b>University of Massachusetts, Boston, USA</b> Contatto: Ed Tronick
2015	<b>University of British Columbia, Vancouver, Canada</b> Contatti: Ruth Grunau, Tim Oberlander

**RUOLI NELLA COMUNITÀ SCIENTIFICA**

2021	<b>Israel Science Foundation</b>   Revisore di progetti scientifici
2021	<b>Department of Medicine, University of Porto, Portugal</b>   Membro della commissione di dottorato (candidata: Carina Rodrigues)
2020	<b>National Research Fund, Luxembourg</b>   Revisore di progetti scientifici
2019	<b>National Science Center, Poland</b>   Revisore di progetti scientifici
2019	<b>Organization for Health Research and Development, Netherlands</b>   Revisore di progetti scientifici

2018 **Marie Sklodowska-Curie Individual Fellowships, European Commission** |  
Revisore di progetti scientifici

## FINANZIAMENTI E PREMI

---

2022 **Banco del Monte di Lombardia**  
Progetto 2-BRAINS [28.594,00 Euro]

2021 **Fondazione Roche Italia - "Per la ricerca indipendente"**  
Progetto MOM-COPE [50.000,00 Euro]

2021 **Bando COVID-19 Regione Toscana**  
Progetto SPACE-NET [30.000,00 Euro]

2021 **Fondazione Acta Paediatrica**  
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 **Ricerca Finalizzata – Ministero della Salute**  
RF-2016-02361884 (co-PI) [450.000,00 Euro]

2017 **Società Italiana di Medicina Perinatale**  
Premio Fondazione Giorgio Pardi

2016 **Hacking Health International**  
Best Innovative Project

2015 **Banco del Monte di Lombardia**  
Progetto Professionalità Ivano Becchi

## RUOLI IN RIVISTE SCIENTIFICHE

---

2021 – today **PLOS ONE**  
Academic Editor

2021 - today **Frontiers in Pediatric Psychology**  
Editor in Chief

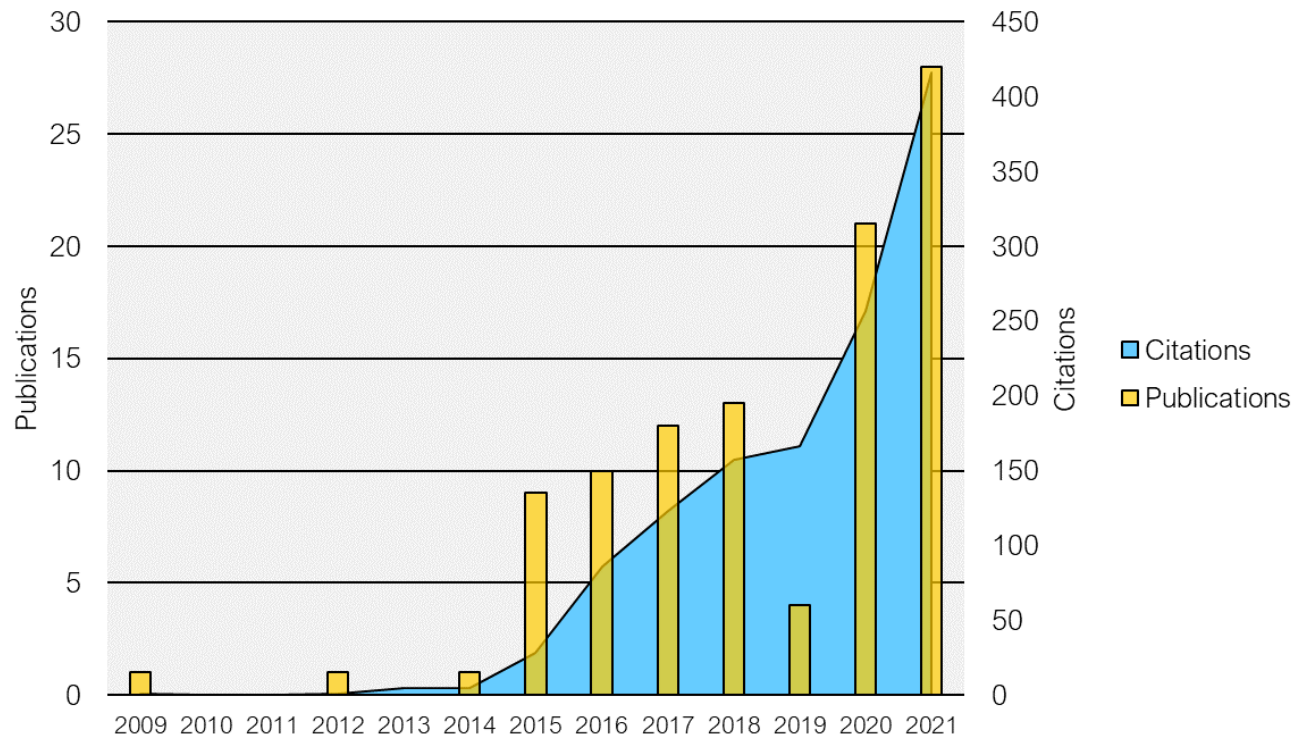
2018 – today **Infant Behavior and Development**  
Membro del comitato editoriale

2017 – 2021 **Frontiers in Developmental Psychology**  
**Frontiers in Quantitative Psychology and Measurement**  
Associate Editor

Ulteriori contributi elencati sul profilo publons: <https://publons.com/author/1258787/livio-provenzi#profile>

## METRICHE DI PRODUTTIVITÀ SCIENTIFICA

104 articoli, 1458 citazioni, 23 indice *h*, 278 co-autori



Fonte: Scopus, Maggio 2022

## LISTA COMPLETE DELLE PUBBLICAZIONI

### 2022 e in stampa

Capelli E, Grumi S, Fullone E, Rinaldi E, Provenzi L (2021) An update on social touch: How does humans' social nature emerge at the periphery of the body? Rorschachiana, *in press*.

Grumi S, Capelli E, Giaccherio 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, *in press*.

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, *in press*.

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.

Provenzi L, Grumi S (2022) The need to study developmental outcomes of children born during the COVID-19 pandemic. JAMA Pediatrics, 176(1), 103.

Provenzi L, Grumi S, Altieri L, Bensi G, Bertazzoli E, Biasucci G, Cavallini A, Decembrino L, Falcone R, Freddi A, Gardella B, Giaccherio 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 (2021) Prenatal maternal stress during the COVID-19 pandemic and infant regulatory capacity at 3 months: A longitudinal study. *Development and Psychopathology*, *in press*.

Provenzi L, Grumi S, Rodrigo MJ (2022) Editorial: Neural and epigenetic factors in parenting, individual differences and dyadic processes. *Brain Sciences*, 12, 478.

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*, *in press*.

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*.

## 2021

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.

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.

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.

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.

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.

Desmarais E, Brown K, Campbell K, French B, Putnam S, Casalin S, Linhares MBM, Lecannelier F, Wang Z, Raikonen K, Heinonen K, Tuovinen S, Montiroso 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.

Fumagalli M, Provenzi L, Sorrentino G, Ciceri F, Fontana C, Passera S, Moncecchi M, Plevani L, Laquintana D, Borgatti R, Mosca F, Montiroso 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.

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.

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.

Grumi S, Provenzi L, Accorsi P, Biasucci G, Cavallini A, Decembrino L, Falcone R, Fazzi EM, Gardella B, Giaccherio 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.

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.

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.

- 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.
- Mensi MM, Rogantini C, Provenzi L, Borgatti R (2021) Rating behavioral problems in adolescent eating disorders: Parent-child differences. *Psychiatry Research*, 298, 113836.
- 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.
- Pisoni C, Provenzi L, Moncecchi M, Caporali C, Naboni C, Stronati M, Montiroso R, Borgatti R, Orcesi S (2021) Early parenting intervention promotes 24-month psychomotor development in preterm children. *Acta Paediatrica*, 110, 101-108.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Rabie D, Provenzi L, Matta N, Montiroso R (2021) Stress and perceived support in mothers of infants admitted to the neonatal intensive care unit in Egypt. *A global*, 21, E101-E109.
- Rogantini C, Provenzi L, Mensi MM (2021) Prioritizing family-centered mental health care for pediatric patients with eating disorders. *JAMA Pediatrics*, 175, 324.
- 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.
- 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.

## 2020

- 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.
- Cassiano R, Provenzi L, Linhares MB, Gaspardo C, Montiroso R (2020) Does preterm birth affect child temperament? A meta-analytic study. *Infant Behavior and Development*, 58, 101417.
- 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.
- 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.

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.

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.

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.

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.

Provenzi L, Fumagalli M, Scotto di Minico G, Giorda R, Morandi F, Sirgiovanni I, Schiavolin P, Mosca F, Borgatti R, Montirosso R (2020) Pain-related increase in serotonin transporter gene methylation associates with emotional regulation in 4.5-year-old preterm-born children. *Acta Paediatrica*, 109, 1166-1174.

Provenzi L, Giusti L, Caglia M, Rosa E, Mascheroni E, Montirosso R (2020) Evidence and open questions for the use of video-feedback interventions with parents of children with neurodevelopmental disabilities. *Frontiers in Psychology*, 11, 1374.

Provenzi L, Grumi S, Borgatti R (2020) Alone with the kids: Tele-medicine for children with special healthcare needs during COVID-19 emergency. *Frontiers in Psychology*, 11, 2193.

Provenzi L, Grumi S, Giorda R, Biasucci G, Bonini R, Cavallini A, Decembrino L, Drera B, Falcone R, Fazzi E, Gardella B, Giaccherio R, Nacinovich R, Pisoni C, Prefumo F, Scelsa B, Spartà MV, Veggiotti P, Orcesi S, Borgatti R, MOM-COPE Group (2020) Measuring the outcomes of maternal COVID-19-related prenatal exposure (MOM-COPE): Study protocol for a multicentric longitudinal project. *BMJ Open*, 10, e044585.

Provenzi L, Montirosso R, Tronick E (2020) Editorial: Risk and Protective Factors Associated with Early Adversity and Development: Evidence from Human and Animal Research. *Frontiers in Psychology*, 10, 2906.

Provenzi L, Rosa E, Visintin E, Mascheroni E, Guida E, Cavallini A, Montirosso R (2020) Understanding the role and function of maternal touch in infants with neurodevelopmental disabilities. *Infant Behavior and Development*, 58, 101420.

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.

Thomson G, Flacking R, George K, Feeley N, Haslund-thomsen H, De Coen K, Schmied V, Provenzi L, Rowe J (2020) Parents' experiences of emotional closeness to their infants in the neonatal unit: A meta-ethnography. *Early Human Development*, 149, 105155.

Varesio C, Provenzi L, Donetti Dantin S, Zanaboni MP, Pasca L, Veggiotti P, De Giorgis V (2020) Pathways to quality of life in adolescents with genetic generalized epilepsy: The role of seizure features and affective symptoms. *Epilepsy & Behavior*, 109, 107115.

## 2019

Cavallini A, Provenzi L, Scotto di Minico G, Sacchi D, Gavazzi L, Amorelli V, Borgatti R (2019) Functional Evaluation of Eating Difficulties Scale (FEEDS) to predict oral motor skills in infants with neurodevelopmental disorders: A longitudinal study. *Developmental Medicine & Child Neurology*, 61, 813-819.

Montirosso R, Piazza C, Giusti C, Provenzi L, Ferrari P, Reni G, Borgatti R (2019) Exploring the EEG mu rhythm associated with observation and execution of a goal-directed action in 14-month-old preterm infants. *Scientific Reports*, 9, 8975.

Provenzi L, Giorda R, Fumagalli M, Brambilla M, Mosca F, Borgatti R, Montirosso R (2019) Telomere length and salivary cortisol stress reactivity in very preterm infants. *Early Human Development*, 129, 1-4.

Provenzi L, Giusti L, Fumagalli M, Frigerio S, Morandi F, Borgatti R, Mosca F, Montirosso R (2019) The dual nature of hypothalamic-pituitary-adrenal axis regulation in dyads of very preterm infants and their mothers. *Psychoneuroendocrinology*, 100, 172-179.



## 2018

- Cassiano RGM, Provenzi L, Linhares MBM, Gaspardo CM, Montirosso R (2018). Maternal sociodemographic factors differentially affect the risk of behavioral problems in Brazilian and Italian preterm toddlers. *Infant Behavior & Development*, 50, 165-173.
- Fumagalli M, Provenzi L, De Carli P, Dessimone F, Sirgiovanni I, Giorda R, Cinnante C, Squarcina L, Pozzoli U, Triulzi F, Brambilla P, Borgatti R, Mosca F, Montirosso R (2018). From early stress to 12-month development in very preterm infants: Preliminary findings on epigenetic mechanisms and brain growth. *PLoS One* 13(1), e0190602.
- Giusti L, Provenzi L, Montirosso R (2018) The face-to-face still-face (FFSF) paradigm in clinical settings: Socio-emotional regulation assessment and parenta support with infants with neurodevelopmental disabilities. *Frontiers in Psychology*, 9, 789.
- Longoni L, Provenzi L, Cavallini A, Sacchi D, Scotto di Minico G, Borgatti R (2018) Predictors and outcomes of the Neonatal Oral Motor Assessment Scale (NOMAS) performance: A systematic review. *European Journal of Pediatrics*, 177, 665-673.
- Provenzi L (2018) Early Career Investigator Highlight – June. *Pediatric Research*, 83, 1086.
- Provenzi L, Brambilla M, Borgatti R, Montirosso R (2018) Methodological challenges in developmental human behavioral epigenetics: Insights into study design. *Frontiers in Behavioral Neuroscience*, 12, 286.
- Provenzi L, Broso S, Montirosso R (2018). Do mothers sound good? A systematic review of the effects of maternal voice exposure on preterm infants' development. *Neuroscience & Biobehavioral Reviews*, 88, 42-50.
- Provenzi L, De Carli P, Fumagalli M, Giorda R, Casavant S, Beri S, Citterio A, Morandi F, Mosca F, Borgatti R, Montirosso R (2018) Very preterm birth is associated with PLAGL1 gene hypo-methylation at birth and discharge. *Epigenomics*, 10(8), 1121-1130.
- Provenzi L, Giorda R, Fumagalli M, Pozzoli U, Morandi F, Scotto di Minico G, Mosca F, Borgatti R, Montirosso R (2018). Pain exposure associates with telomere length erosion in very preterm infants. *Psychoneuroendocrinology*, 89, 113-119.
- Provenzi L, Guida E, Montirosso R (2018). Preterm Behavioral Epigenetics: A systematic review. *Neuroscience & Biobehavioral Reviews*, 84, 262-271.
- Provenzi L, Olson K, Giusti L, Montirosso R, DeSantis A, Tronick E (2018). NICU Network Neurobehavioral Scale: 1-month normative data and variation from birth to 1 month. *Pediatric Research*, 83, 1104-1109.
- Provenzi L, Scotto di Minico, G., Giusti L, Guida E, Müller, M (2018). Disentangling the dyadic dance: Theoretical, methodological and outcomes systematic review of mother-infant dyadic processes. *Frontiers in Psychology*, 9, 348.

## 2017

- Barello S, Graffigna G, Pitacco G, Mislej M, Cortale M, Provenzi L (2017). An educational intervention to train professional nurses in promoting patient engagement: A pilot feasibility study. *Frontiers in Psychology*, 7, 2020.
- Cavallini A, Provenzi L, Sacchi D, Longoni L, Borgatti R (2017). The Functional Evaluation of Eating Difficulties Scale (FEEDS): Study protocol and validation in infants with neurodevelopmental impairments and disabilities. *Frontiers in Pediatrics*, 5, 273.
- Giusti L, Provenzi L, Tavian D, Missaglia S, Butti N (2017). The BDNFval66met polymorphism and individual differences in temperament in 4-month-old infants: A pilot study. *Infant Behavior and Development*, 47, 22-26.
- Graffigna G, Barello S, Riva G, Savarese, M, Menichetti J, Castelnuovo G, Corbo M, Tzannis A, Aglione A et al (2017). Fertilizing a patient engagement ecosystem to innovate healthcare: toward the first Italian consensus conference on patient engagement. *Frontiers in Psychology*, 8(812).
- Provenzi L, Barello S, Saettini F, Scotto di Minico G, Borgatti R (2017). Paediatricians should encourage the parents of children with special healthcare needs to disclose their use of complementary and alternative medicine. *Acta Paediatrica*, 106(11), 1883-1884.
- Provenzi L, Borgatti R, Montirosso R (2017). Why are prospective longitudinal studies needed in preterm behavioral epigenetic research? *JAMA Pediatrics*, 171, 92.

Provenzi L, Cassiano RGM, Scotto di Minico G, Linhares MBM, Montirosso R (2017). Study protocol for the Preschooler Assessment of Emotional Stress (PRES) procedure. *Frontiers in Psychology*, 8(1653).

Provenzi L, Fumagalli M, Bernasconi F, Sirgiovanni I, Morandi F, Borgatti R, Montirosso R (2016). Very preterm and full-term infants' response to socio-emotional stress: The role of post-natal maternal bonding. *Infancy*, 22, 695-712.

Provenzi L, Fumagalli M, Giorda R, Morandi F, Sirgiovanni I, Pozzoli U, Mosca F, Borgatti R, Montirosso R (2017). Maternal sensitivity buffers the association between SLC6A4 methylation and socio-emotional stress response in 3-month-old full-term but not very preterm infants. *Frontiers in Psychiatry*, 8(171).

Provenzi L, Menichetti J, Coin R, Aschieri F (2017). Psychological assessment as an intervention: application of collaborative techniques in clinical practice. *Professional Psychology: Research & Practice*, 48(2), 90-97.

Provenzi L, Scotto di Minico G, Giorda R, Montirosso R (2017). Telomere length in preterm infants: A promising biomarker of early adversity and care in the neonatal Intensive Care Unit? *Frontiers in Endocrinology*, 8, 295.

## 2016

Montirosso R, Provenzi L, Fumagalli M, Sirgiovanni I, Giorda R, Pozzoli U, Beri S, Menozzi G, Tronick E, Morandi F, Mosca F, Borgatti R (2016). Serotonin transporter gene (SLC6A4) methylation associates with NICU stay and 3-month-old temperament in preterm infants. *Child Development*, 87, 38-48.

Montirosso R, Provenzi L, Giorda R, Fumagalli M, Morandi F, Sirgiovanni I, Pozzoli U, Grunau R, Oberlander TF, Mosca F, Borgatti R (2016). SLC6A4 promoter region methylation and socio-emotional stress response in very preterm and full-term infants. *Epigenomics*, 8, 895-907.

Montirosso R, Provenzi L, Tavian D, Missaglia S, Raggi M, Borgatti R (2016). COMTval158met polymorphism is associated with stress reactivity in 4-month-old infants. *Infant Behavior and Development*, 45, 71-82.

Provenzi L, Barelo S, Graffigna G, Fumagalli M, Sirgiovanni I, Savarese M, Montirosso R (2016). A Comparison of maternal and paternal experiences of becoming parents of a very preterm infant. *Journal of Obstetric, Gynecologic, and Neonatal Nursing*, 45, 528-541.

Provenzi L, Giorda R, Beri S, Montirosso R (2016). SLC6A4 methylation as an epigenetic marker of life adversity exposures in humans: A systematic review of literature. *Neuroscience & Biobehavioral Reviews*, 71, 7-20.

Provenzi L, Giusti L, Fumagalli M, Tasca H, Ciceri F, Menozzi G, Mosca F, Morandi F, Borgatti R, Montirosso R (2016). Pain-related stress in the Neonatal Intensive Care Unit and salivary cortisol reactivity to socio-emotional stress in 3-month-old very preterm infants. *Psychoneuroendocrinology*, 72, 161-165.

Provenzi L, Giusti L, Montirosso R (2016). Do infants exhibit significant cortisol reactivity to the Face-to-Face Still-Face procedure? A narrative review and meta-analysis. *Developmental Review*, 42, 34-55.

Provenzi L, Olson K, Montirosso R, Tronick E (2016). Infants, mothers, and dyadic contributions to stability and prediction of social stress response at 6 months. *Developmental Psychology*, 52, 1-8.

Provenzi L, Saettini F, Barelo S, Borgatti R (2016). Complementary and alternative medicine (CAM) for children with special health care needs: A comparative usage study in Italy. *European Journal of Integrative Medicine*, 8(2), 115-121.

## 2015

Montirosso R, Casini E, Provenzi L, Putnam S, Morandi F, Fedeli C, Borgatti R (2015). A categorical approach to infants' individual differences during the Still-Face paradigm. *Infant Behavior and Development*, 38, 67-76.

Montirosso R, Provenzi L (2015). Implications of Epigenetics and Stress Regulation on Research and Developmental Care of Preterm Infants. *Journal of Obstetric, Gynecologic, and Neonatal Nursing*, 44, 174-182.

Montirosso R, Provenzi L, Tavian D, Morandi F, Bonanomi A, Missaglia S, Tronick E, Borgatti R (2015). Social stress regulation in 4-month-old infants: Contribution of maternal social engagement and infants' 5-HTTLPR genotype. *Early Human Development*, 91, 173-179.

Provenzi L, Barello S (2015). Behavioral Epigenetics of Family-Centered Care in the Neonatal Intensive Care Unit. *JAMA Pediatrics*, 169, 697-698.

Provenzi L, Borgatti R, Menozzi G, Montirosso R (2015). A dynamic system analysis of dyadic flexibility and stability across the Face-to-Face Still-Face procedure: application of the State Space Grid. *Infant Behavior and Development*, 38, 1-10.

Provenzi L, Casini E, De Simone P, Reni G, Borgatti R, Montirosso R (2015). Mother-infant dyadic reparation and individual differences in vagal tone affect 4-month-old infants' social stress regulation. *Journal of Experimental Child Psychology*, 140, 158-170.

Provenzi L, Fumagalli M, Sirgiovanni I, Giorda R, Pozzoli U, Morandi F, Beri S, Menozzi G, Mosca F, Borgatti R, Montirosso R (2015). Pain-related stress during the Neonatal Intensive Care Unit stay and SLC6A4 methylation in very preterm infants. *Frontiers in Behavioral Neuroscience*, 9, 1-9.

Provenzi L, Montirosso R (2015). "Epigenetics" in the neonatal intensive care unit: Conveying complexity in health care for preterm children. *JAMA Pediatrics*, 169, 617-618.

Provenzi L, Santoro E (2015). The lived experience of fathers of preterm infants in the Neonatal Intensive Care Unit: a systematic review of qualitative studies. *Journal of Clinical Nursing*, 24, 1784-1794.

## < 2014

Montirosso R, Provenzi L, Tronick E, Morandi F, Reni G, Borgatti R (2014). Vagal tone as a biomarker of long-term memory for a stressful social event at 4 months. *Developmental Psychobiology*, 56, 1564-1574.

Montirosso R, Provenzi L, Calciolari G, Borgatti R, NEO-ACQUA Study Group (2012). Measuring maternal stress and perceived support in 25 Italian NICUs. *Acta Paediatrica*, 101, 136-142.

Montirosso R, Morandi F, D'Aloisio C, Berna A, Provenzi L, Borgatti R (2009). International classification of functioning, disability and health in children with congenital central hypoventilation syndrome. *Disability and Rehabilitation*, 31, S144-S152.

## LIBRI

---

Provenzi L, Grumi S, Borgatti R (in progress) *Family-centered care in child disability: Theory, research, and practice*. Springer.

Provenzi L (2021) *Psicobiologia dello sviluppo: Principi, processi, applicazioni*. Carocci.

Provenzi L, Montirosso R (2020). *Developmental Human Behavioral Epigenetics: Principles, Methods, Evidence, and Future Directions*. Academic Press.

## CAPITOLI

---

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).

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).

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).

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).

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.

## SPECIAL ISSUE EDITATI

---

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*.

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*.

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*.

Rodrigo MJ, Provenzi L (2020-2021) neural and epigenetic factors in parenting: Individual differences and dyadic processes. *Brain Sciences*.

## CHAIR A SIMPOSI NAZIONALI E INTERNAZIONALI

---

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.

Provenzi L (2020) How adverse caregiving conditions affect offspring developmental trajectories: Evidence from longitudinal studies. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Virtual, August.

Carter S, Provenzi L (2020) Fathers' neurobiology: Evidence from human studies and animal models research. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Virtual, August.

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.

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.

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.

## PRESENTAZIONI ORALI SU INVITO

---

Provenzi L (2021) The hidden pandemic: Psychobiological footprints of prenatal COVID-related stress. COVGEN meeting. Chicago (USA), November.

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.

Provenzi L (2021) The hidden pandemic: Psychobiological footprints of pandemic-related stress in pediatric populations. IBRO Webinar: Neuroscience & COVID-19. Virtual, July.

Provenzi L (2021) Epigenetic fingerprints of separation and closeness: Insights for NICU care. 8<sup>th</sup> SCENE symposium. Tallinn (Estonia), May.

Provenzi L (2020) Life getting under the skin. Epigenetic mechanisms and developmental programming in preterm infants. 2020 Science and Soul Congress. Lisbon (Portugal), February.

Provenzi L (2020) Epigenetic fingerprints: Psychobiological insights into human emotional connections. Swiss Center for Affective Sciences. Geneva (CH), November.

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.

## ALTRE PRESENTAZIONI ORALI

---

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.

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 6<sup>th</sup>-9<sup>th</sup>. XXVII European Congress of Psychiatry (EPA).

Provenzi L (2019) Through the mirror: Supporting parenting through video-feedback in Italy. Hungary, November. 7<sup>th</sup> SCENE symposium.

Provenzi L (2017) Stress exposure associates with telomere length erosion in very preterm infants. Italy, October. From activity to interactivity.

Provenzi L (2017) Voices from the rollercoaster: Becoming mothers and fathers in the NICU. Belgium, September. 5<sup>th</sup> SCENE symposium.

Provenzi L (2017) Preterm Behavioral Epigenetics. Italy, January. XIX National Congress of the Italian Society of Perinatal Medicine.

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.

## POSTER

---

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: COVID-19-related stress, SLC6A4 methylation, and infants' temperament at 3 months. International Society for Psychoneuroendocrinology (ISPNE) annual congress. Virtual, September.

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.

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 22<sup>nd</sup>. Society for Research in Child Development.

- 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, 6<sup>th</sup> – 8<sup>th</sup>. Society for Research in Child Development.
- 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, 6<sup>th</sup> – 8<sup>th</sup>. Society for Research in Child Development.
- 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, 26<sup>th</sup> - 28<sup>th</sup>. International Conference on Infant Studies.
- 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, 19<sup>th</sup> – 21<sup>th</sup>. Society for Research in Child Development.
- 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, 19<sup>th</sup> – 21<sup>th</sup>. Society for Research in Child Development.
- 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, 11<sup>th</sup> – 13<sup>th</sup>. Inaugural International Collaborative/Therapeutic Assessment Conference.
- 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, 3<sup>rd</sup> – 5<sup>th</sup>. XIX Biennial International Conference on Infant Studies.
- Montirosso R, Provenzi L, Taviani 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, 7<sup>th</sup> – 9<sup>th</sup>. XVIII Biennial International Conference on Infant Studies.