

CURRICULUM VITAE AND TRACK RECORD

Licia Lugli

➤ Personal Information

Researcher unique identifier (ORCID Id): <https://orcid.org/0000-0001-6726-3217>

Total peer-reviewed publications (Scopus):150

H-index (Scopus):25

Citations (Scopus):1988 (as of 10 September 2026)

➤Track Record Summary

Licia Lugli is a neonatologist and associate professor with over 15 years of dedicated experience in neonatal neurology, clinical research, and network coordination. Her expertise lies in neonatal neurology, neurodevelopmental care, follow-up of high-risk infants (VLBW, HIE), EEG/aEEG for neuroprognostication, neonatal seizures, therapeutic hypothermia and other neuroprotective strategies. She has also strong scientific experience in genetic syndromes, perinatal infections, and neonatal analgesia. She serves as Principal Investigator (PI) for more than 10 national and international studies, including a Phase 1 trial.

Her coordination skills are demonstrated by her role as PI and scientific responsible for three successive, competitive, peer-reviewed network projects funded by the prestigious Mariani Foundation of Milan (NEUROPREM, NEUROPREM 2, FM Neonatal Network). In these roles, she successfully coordinated multiple neonatal intensive care units at the national level, standardizing data collection, promoting uniform diagnostic criteria, and delivering high-impact publications.

She is the Author of more than 140 publications in peer-reviewed journals.

➤ Current and previous positions

- Current (2026-Present): Associate Professor of Pediatrics, Neonatal Intensive Care Unit (NICU), University of Modena and Reggio Emilia (UNIMORE) and University Hospital of Modena

-Previous (2008-2025): Medical Doctor, Neonatologist at the NICU, University Hospital of Modena

- Previous (2006-2007): Research Fellow (Assegno di Ricerca) at the University of Modena and Reggio Emilia. Research title: "Selection of asphyxiated newborns candidates for neuroprotection."

➤ Prizes and awards

- Scientific Prize (2005): Awarded at the III National Congress of the Italian Society of Pediatric Emergency and Urgency Medicine (SIMEUP) for the presentation titled "Refractory status epilepticus in an infant with shaken baby syndrome."

- Neonatal Care Trainer Certificate (2022-2024): Certified as a trainer by the Neonatal Care Study Group of the Italian Society of Neonatology (SIN), a prerequisite for conducting neonatal care training courses in Italian NICUs.

-NIDCAP (neonatal individualized developmental care program) professional certification achieved in the 2026, after attending NIDCAP training program

➤ Visiting academic positions

-Teaching and Training Missions (2011 & 2013): Conducted theoretical-practical training for healthcare personnel in neonatology in resource-limited settings:

Mission in Cambodia and Laos (promoted by East Meet West and ANT associations) focusing on respiratory support, neonatal care, and infection control.

Mission at Lacor Hospital in Gulu, Uganda, focusing on neonatal resuscitation and care.

➤ Teaching activities and PhD supervision

- Faculty Member, School of Pediatrics, UNIMORE (2022-present):Teaching "Neonatal Neurology (MED/38).

- Teacher at Medical School, UNIMORE (2019-present): Teaching in General and Specialist Pediatrics and Medical Genetics.
- Instructor (2015-present): Certified by the Italian Resuscitation Council (IRC) for pediatric and neonatal resuscitation courses (EPALS, EPILS, and NLS)
- Master's Program Lecturer: Taught in various Master's programs, including at the University of Pavia (Neonatology Master), University of Naples (Advanced Neonatology Master), University of Modena (Neonatal neurology), and Sapienza University of Rome (Neuro-motor rehabilitation of preterm infants).

➤ **National and international collaborations and networks**

- NEUROPREM & NEUROPREM 2 Network (2015-2022): Principal Investigator (PI) and coordinator of the Italian neonatal network on neurodevelopmental outcomes of very low birth weight infants. Financed by the Mariani Foundation of Milan, Italy
- Fondazione Mariani Neonatal network (2022-present): PI and coordinator of a national network project financed by the Mariani Foundation to collect perinatal and outcome data of neurologically at-risk newborns, coordinating multiple Italian neonatology centers.
- IMER Coordinating Group: Member of the IMER group, the congenital malformation registry for Emilia-Romagna, which collaborates with international registries EUROCAT and the International Clearing House for Birth Defects Surveillance.
- International Genetic Consortia: Participated as a local PI in international studies identifying genetic causes of neurodevelopmental syndromes (e.g., *YIF1B*, *CDC42*).
- Fentanyl Pharmacokinetic Study (Phase 1 study): PI for a phase 1 study approved by AIFA and the Italian National Institute of Health, collaborating with the Bambino Gesù Hospital in Rome (drug assays) and University College London (pharmacokinetic data analysis).
- "In your hands study ". Local PI for a multicenter study on a multisensory stimulation intervention for newborns.

➤ **Other work experience**

- Clinical Neonatologist: Extensive clinical experience in Neonatology, with a focus on neonatal neurology, general movements, neurodevelopmental outcomes, therapeutic hypothermia for hypoxic-ischemic encephalopathy (HIE), neonatal seizures, and neurodevelopmental care
- Genetic Counselor: Holds a Master's in Clinical Genetics (University of Siena, 2017-2018), integrating genetic diagnosis and counseling into neonatal care for congenital anomalies and syndromes.
- Advanced Training in Pediatric EEG: Completed a specialization course in Pediatric EEG (Tor Vergata University, Rome, 2020-2021).
- Advanced training on general movements (Prechtl methods): completed the advanced course in 2020

➤ **Roles and responsibilities**

- Administrative role and position responsibility: PI for multiple national and international studies. Responsible for coordinating participating centers in the NEUROPREM, NEUROPREM 2, and FM Neonatal networks.
- Scientific organisations/Coordination of academic activities: Responsible for the scientific organization of multiple national congresses, on different themes like neonatal neurology, neurodevelopmental care and genetics. Speaker, scientific referent and moderator for numerous conferences.

➤ **Editorial activity**

- Editor, BMC Pediatrics (2021-present): Section Editor for Genetic and Congenital Disorders.
- Associate Editor, Children (MDPI) (2024-present): Handles reviewer selection, article selection, and evaluation for publication.
- Associate Editor, Frontiers in Pediatrics (2024-present): Handles article selection and final evaluation for the Neonatology section.

➤ **Membership of scientific societies**

- Italian Society of Pediatrics (SIP, 2007-present)
- Italian Society of Neonatology (SIN, 2007-present)
- Italian Resuscitation Council (IRC, 2015-present)
- Study Group Roles within SIN:

- Council member, Regional Directorate of Emilia-Romagna (2011-2013)
- Council member, Neonatal Neurology and Follow-up Study Group (2014-2019; 2022-2025)
- Council member, Clinical Genetics Study Group (2019-present)
- Council member, Analgesia and Sedation Study Group (2024-present)
- Member, Neonatal Resuscitation Study Group (2020-present)

➤ Funding (current and past)

- NEUROPREM: Italian network project on neurodevelopmental outcome of very low birth weight infants, financed by Fondazione Pierfranco e Luisa Mariani of Milan, PI & Scientific Responsible (€70000 total)
- NEUROPREM 2: Extension of the NEUROPREM network financed by Fondazione Pierfranco e Luisa Mariani of Milan, PI & Scientific Responsible (€35000 total)
- Fondazione Mariani (FM) Neonatal Network: National network for neurologically at-risk newborns, financed by Fondazione Pierfranco e Luisa Mariani, PI & Scientific Responsible (€70,000 total)

➤ Selected Publications in peer-reviewed journals

1. **Lugli L**, Bariola MC, Guidotti I, Pugliese M, Roversi MF, Bedetti L, Della Casa Muttini E, Miselli F, Ori L, Lucaccioni L, Bertoncelli N, Rossi K, Crestani S, Bergonzini P, Iughetti L, Ferrari F, Berardi A. Neurodevelopmental outcome of neonatal seizures: A longitudinal study. *Eur J Paediatr Neurol*. 2024;49:17-26. doi: 10.1016/j.ejpn.2024.01.007.
2. **Lugli L**, Guidotti I, Pugliese M, Roversi MF, Bedetti L, Della Casa Muttini E, Cavalleri F, Todeschini A, Genovese M, Ori L, Amato M, Miselli F, Lucaccioni L, Bertoncelli N, Candia F, Maura T, Iughetti L, Ferrari F, Berardi A. Polygraphic EEG Can Identify Asphyxiated Infants for Therapeutic Hypothermia and Predict Neurodevelopmental Outcomes. *Children (Basel)* 2022;9(8):1194. doi: 10.3390/children9081194.
3. **Lugli L**, Garetti E, Goffredo BM, Candia F, Crestani S, Spada C, Guidotti I, Bedetti L, Miselli F, Della Casa EM, Roversi MF, Simeoli R, Cairoli S, Merazzi D, Lago P, Iughetti L, Berardi A. Continuous Fentanyl Infusion in Newborns with Hypoxic-Ischemic Encephalopathy Treated with Therapeutic Hypothermia: Background, Aims, and Study Protocol for Time-Concentration Profiles. *Biomedicines*. 2023;11(9):2395. doi: 10.3390/biomedicines11092395.
4. **Lugli L**, Bedetti L, Guidotti I, Pugliese M, Picciolini O, Roversi MF, Della Casa Muttini E, Lucaccioni L, Bertoncelli N, Ancora G, Gargano G, Mosca F, Sandri F, Corvaglia LT, Solinas A, Perrone S, Stella M; Neuroprem Working Group, Iughetti L, Berardi A, Ferrari F. Neuroprem 2: An Italian Study of Neurodevelopmental Outcomes of Very Low Birth Weight Infants. *Front Pediatrics* 2021;9:697100. doi: 10.3389/fped.2021.697100.
5. **Lugli L**, Pugliese M, Plessi C, Berardi A, Guidotti I, Ancora G, Grandi S, Gargano G, Braibanti S, Sandri F, Soffritti S, Ballardini E, Arena V, Stella M, Perrone S, Moretti S, Rizzo V, Ferrari F; Neuroprem Working Group. Neuroprem: the Neuro-developmental outcome of very low birth weight infants in an Italian region. *Ital J Pediatr*. 2020;46(1):26. doi: 10.1186/s13052-020-0787-7. (First author)
6. **Lugli L**, Rossi C, Berardi A, Pugliese M, Ceccarelli PL, Sileo FG, Chiossi G, Contu G, Calabrese O, La Marca A, Bertucci E. Prenatal multidisciplinary counseling for fetal congenital anomalies: A narrative review. *Int J Gynaecol Obstet*. 2025;169(2):498-510. doi: 10.1002/ijgo.16068.
7. **Lugli L**, Bedetti L, Pugliese M, Guidotti I, Ancora G, Gargano G, Perrone S, Solinas A, Motta M, Corvaglia LT, Sansavini A, Stella M, Cuoghi Costantini R, DiCaprio A, Della Casa Muttini E, Roversi MF, Bertoncelli N, Catenazzi P, Ballardini E, Grandi S, Moretti S, Turoli D, Aceti A, Braibanti S, Insalaco A, Migliozi C, Fumagalli M, Ferrari F, Berardi A. Mortality and Neurodevelopmental Outcome in an Italian Cohort of Very Low Birth Weight Infants. *Acta Paediatr*. 2026;115(1):153-165. doi: 10.1111/apa.70292.

8. Bertoncelli N, Corso L, Bedetti L, Della Casa EM, Roversi MF, Toni G, Pugliese M, Guidotti I, Miselli F, Lucaccioni L, Rossi C, Berardi A, **Lugli L**. The Motor Optimality Score-Revised Improves Early Detection of Unilateral Cerebral Palsy in Infants with Perinatal Cerebral Stroke. *Children (Basel)*. 2024 Aug 4;11(8):940. doi: 10.3390/children11080940.
9. **Lugli L**, Garetti E, Roversi MF, Bianchini A, Cuoghi Costantini R, Guidotti I, De Novellis M, Spaggiari E, Lago P, Berardi A. EDIN and N-PASS pain scale comparison in asphyxiated newborns treated with therapeutic hypothermia. *Front Pain Res (Lausanne)*. 2026 Mar 23;7:1783611. doi: 10.3389/fpain.2026.1783611. PMID: 41948425; PMCID: PMC13050844.
10. **Lugli L**, Spada C, Garetti E, Guidotti I, Roversi MF, Della Casa E, Bedetti L, Lucaccioni L, Pugliese M, Ferrari F, Iughetti L, Lago P, Berardi A. Fentanyl analgesia in asphyxiated newborns treated with therapeutic hypothermia. *J Matern Fetal Neonatal Med*. 2022 Dec;35(25):7764-7770. doi: 10.1080/14767058.2021.1937106.
11. **Lugli L**, Bariola MC, Ferri L, Lucaccioni L, Bertucci E, Cattini U, Torcetta F, Morrone A, Iughetti L, Berardi A. Disorder of sex development associated with a novel homozygous nonsense mutation in COG6 expands the phenotypic spectrum of COG6-CDG. *Am J Med Genet A*. 2021 Apr;185(4):1187-1194. doi: 10.1002/ajmg.a.62061.

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