



Curriculum Vitae di Marco Lodi

PERSONAL INFORMATION

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Nationality	Italian
Date of birth	04, ottobre, 1954
Place of Birth	NOVARA, ITALY
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Date and Signature	January, 2026 <small>The undersigned is aware that, pursuant to art. 26 of Law 15/68, false declarations, falsity in documents and the use of false documents are punishable under the Criminal Code and special laws. In addition, the undersigned authorizes the processing of personal data, in accordance with the provisions of Law 196/03</small>

EDUCATION AND TRAINING

Name and type of education or training institution	
1968 - 1974	ITIS "Aldini-Valeriani" Bologna ITIS "Ettore Molinari" Milano
Qualification achieved	Industrial Chemical Expert
1974 - 1976	State University of Milan Faculty of Agriculture Degree Course in Food Preparation Sciences
Qualification achieved	Degree not awarded
Main subjects	Industrial Chemistry
and/or professional skills	Atmospheric Physics
Subject of the study	Biology

Summary

Professional Qualification and Work Experience Marco Lodi: from Industrial and Environmental Hygienist to Senior Advisor of Industrial Hygiene and Environmental Toxicology

Graduated in Industrial Chemistry in 1974, in 1976 he left the degree course in Food Preparation Sciences to enter the world of work in a chemical industry (SISAS), and after a brief experience where he learned about issues related to Industrial Hygiene, he joined as a founding member of a cooperative society (ECOLAB) where until **1986** he completed the acquisition of **Industrial Hygiene skills**, carrying out primarily activities related to experimental, indoor-occupational investigations for the determination of the quality of the work environment, ducted air emissions, industrial water wastewater.

In this period, the ICMESA accident in Seveso, highlighted the importance of the industrial impact on the environment and related health consequences, which led him to the first collaboration with the Mario Negri Institute of Pharmacological Research.

Subsequently he founded a limited liability company (AMBIO), where until **1996** he acquired the skills of **Environmental Hygiene**, primarily carrying out activities related to outdoor investigations for the determination of the quality of the receiving ecosystem with experimental monitoring of biotic and abiotic matrices, and meteorological investigations of the atmospheric boundary layer for the study of the diffusion of pollutants with the active collaboration of col. Mario Giuliacci (Physicist, Meteorologist of the Air Force, former professor of Atmospheric Physics at UNIMI and Environmental Sciences at UNIMIB) as Senior Advisor of the "AmbioMeteoService" Working Group overseeing the MeteoClimatological Classification of Weather Types in Northern, Central and Southern Italy as a Physical interconnection with the Air Quality of the anthropized atmospheric layers closest to the soil.

Since **1997** a stable and continuous collaboration has begun with the Institute of Pharmacological Research "**Mario Negri**" in the field of industrial and environmental hygiene skills, with the task of organizing an Operating Unit structurally located within the Laboratory of Chemistry and Toxicology of the Environment.

From **2002 to 2022** he was **Head of the Industrial and Environmental Hygiene Unit** of the Laboratory of Environmental Chemistry and Toxicology, Department of Environment and Health with the task of promoting the development of research activities in the field of Environmental Impact Assessment (**EIA-VIA**) and with the broader objective of Health Impact Assessment (**HIA-VIS**) with a Toxicological approach of the Risk for humans and the ecosystem exposed to environmental pollution (**Integrated Environmental Impact Assessments and Healthcare IEIAH-VIIAS**).

Since 2013, the year in which the Mario Negri Institute was recognized as IRCCS, it has dealt primarily with **Health Impact Assessments (HIA-VIS)** mostly in support of Environmental Impact Assessments (**EIA**), carrying out **applied research in Toxicology and EcoToxicology**, as part of an in-depth study of "**environmental diseases**" and in the broader context of **preventive medicine** tag. In this context, in 2015 he expanded his applied research with the development of the **In Vivo and In Vitro Experimental Toxicology Unit** entrusted to Prof. Aldo Viarengo (Biologist, former professor of Ecology and Physiology at the University of Eastern Piedmont-UNIPO).

In **2022**, he voluntarily ended his relationship as an employee of IMNegri, (maintaining the consultancy as Senior Advisor of Industrial and Environmental Hygiene until 2025), to devote himself as **a freelancer to consultancy for private companies** in the acquired experiential field (**Integrated Environmental Impact Assessments and Health Damage as Senior Advisor of Industrial Hygiene and Environmental Toxicology**).

Since the end of **2022** he has been General Manager of the **Non-Profit Business Network** called **#Ecologja crsg** (network contract with legal subjectivity) and since **2025** he has been president of the association of free people called **Club#Ecologja**, created for the dissemination of a "**philosophy of life**" to the new generations compatible with the **OneHearth-OneEalth Environmental Health concept**.



From 1985 to 2015 he was a member of AIDII (Italian Association of Industrial Hygienists for Industrial Hygiene and the Environment) recognized by the ACGIH (American Conference of Governmental Industrial Hygienists) and of various technical and scientific commissions, in particular UNI and UNICHIM for the development of analytical methodologies.

From 2002 to 2018 he was a professor of Industrial and Environmental Hygiene in the Post-Graduate Professional Qualification School recognized by the Lombardy Region for Specialists in the Biological and Medical field managed by IMN. He has collaborated in the production of publications and technical-scientific manuals.

P. Chini
Marco Lodi

Senior Advisor of Industrial Hygiene and Environmental Toxicology

Work Experience from 1976 to 2025

1976-1986 Industrial Hygiene Surveys

(1977-1978) S.I.S.A.S Società Italiana Serie Acetica Sintetica S.p.A.: Deputy Head of the Process Laboratory

(1980-1992) Flakt Italia, Bassani Ticino, IRE, Piaggio Gilera, ENRICERCHE, Consorzio Obbligatorio Olii Usati, Pretura di Milano e Legnano, Officine Maserati, Pozzi Ginori, CCR Ispra, Istituto R.F.M. NEGRI, INPS, Franco Tosi, ENICHEM, Bioresearch, Italtel: Industrial hygiene investigations for the determination of the quality of work environments, air emissions, water wastewater.

(1985-1987) ENEA: National Inventory of Emissions of Airborne Pollutants.

1986-1996 Environmental Hygiene Surveys

(1986) TEI: survey campaigns of chemical, physical and biological pollutants in a stretch of sea of the Romagna Riviera for the definition of the causes of mucilage.

(1986-1991) ENEL-DCO: Ichthyological campaigns for the evaluation of the trapping of biotypes at the intake ports and of the thermal pollution of the Porto Tolle power plant on the Po delta.

(1987-1988) Vetrerie Italiane: Meteorological characterization campaigns and pollutant dispersion in the Bormida valley, from a site for the production of hollow glass.

(1989) Consorzio Acqua Potabile di Milano : Survey on the quality of the air surrounding the east Milan water purifier of Peschiera Borromeo.

(1988-1989) CISE : Meteorological surveys on the ground and at high altitude in Val d'Enza (RE) for the evaluation of climatological variations resulting from the construction of a dam.

(1990) Ashland Chemical Italiana : Study on the dispersion in urban environment (Milan) of volatile organic solvents in the most representative climatological conditions by means of a stationary Gaussian model DIMULA.

(1990-1991) Municipal Administration of Greve in Chianti: Meteorological characterization and study on the diffusion of pollutants in the Chianti area.

(1991-1992) Lombardia Risorse: Meteoclimatological and air quality characterization of the areas surrounding the industrial centers of PERO-RHO and Limito-Pioltello.

(1991-1992) ENEL-DCO: Meteoclimatological characterization of the Melfi and Rossano Calabro sites.

(1991-1994) ENEL-DCO: Indoor pollution surveys in Porto Tolle, Adria, Pisa.

(1992) Meteoclimatological surveys in a site of the district of Mexico City in the framework of a European scientific collaboration project.

(1992) SNAMPROGETTI: Monitoring of air quality on the Strait of Messina (Villa S. Giovanni and Messina)

(1994-1996) BASF: Podiatric, air quality and biological surveys, for the evaluation of the environmental impact of the activity of a paint and ink industry in Caronno Pertusella (VA)

1996-2010 Environmental Impact Assessment Surveys

(1996-2011) Characterization of airborne emissions deriving from the combustion or co-combustion of alternative fuels and/or waste in power plants for the production of electricity (ASM Brescia, AMSA Milano, AEM Cremona, TME Vercelli, TEV Versilia, ACEGAS Trieste-Padova, ACEA Ferrara, Ecoenergia Corteolona, Ecolombardia4 Filago);

(1998) Evaluation of the diffusion of pollutants with mathematical computational models (Calmet-Calpuff) from the emission of a cement production plant (Holcim Ternate);

(2000) Hupach: Assessment of the environmental impact of the airborne area due to the expansion of the Busto Arsizio intermodal railway terminal with the aid of a dynamic Gaussian computational model with Calmet-Calpuff puf.

(2002) Bergamo Pulita: Evaluation of the environmental impact of airborne V.O.C. from R.S.U. in landfills, with calculation by means of diffusion modeling and estimation of olfactory compatibility with respect to the olfactory thresholds reported in the bibliography.

(2003-2005) Environmental Impact Studies (EIA) before and after the modernization of the MSW waste-to-energy plants ACEGAS_APS in Trieste.

(2004) Evaluation of the efficiency of flue gas treatment plants with regard to the concentration of Cl-, Br-, SO4-- (Ecodeco PV-BG, AMSA MI);

(2005-2006) Study for the evaluation of environmental healthiness in the municipality of Lomello (PV);

(2006-2007) Post-construction environmental impact study of the TME plant in Gioia Tauro (RC).

(2007-2008) Monitoring of air quality in relation to the diffusion of organic and inorganic micropollutants, as part of the health risk assessment in the area of the site of national interest "Brescia-Caffaro" - ISS-ISTITUTO SUPERIORE DELLA SANITÀ

(2007-2013) Study on the presence of xenobiotics in the urban wastewater cycle within the "ERDF of the Autonomous Province of Bolzano_Alto Adige" Operational Programme

(2008) Health and Hygiene Assessment (VIS) of the cocombustor project in the LUCART Paper Mills (LU);

(2008) Health and Hygiene Impact Assessment of a biomass thermal power plant located in the Bevera hamlet of the Municipality of Ventimiglia (IM);

(2009) Health and Hygiene Assessment of the third line project of the ACEGAS APS MSW incinerator in Padua (PD);

(2009) Health and Hygiene Assessment of the MSW incinerator project in the Municipality of Sant'Urbano (PD);

(2009-2011) Evaluation and identification of innovative methodologies for the characterization of biogas emissions from landfills (ITFM-ITRA toxicological indices of Mass Flow and Environmental Risk) TUSCANY REGION

2010-2023 Health Impact Assessment Surveys

(2010-2013) Environmental monitoring and toxicological evaluations for the enhancement and protection of the healthiness of Lake Garda. (Municipality of Peschiera- Garda UNO spa - Gardesana Servizi spa company - Rotary and Lions Cubs)

(2010-2014) Assessment of Environmental Healthiness in the municipalities of Lomellina (PV) adhering to the Clir;

(2010-2015) Health and Hygiene Assessment of Air Quality in the municipalities of Padua and Noventa Padovana and of the impact of the USW-ACEGAS-APS waste-to-energy plant

(2011) Health and Hygiene Assessment of the ECOSAVONA landfill of MSW in the province of Savona (SV);

(2011-2012) Health and Hygiene Assessment of the impact of a hospital waste incinerator (ROT) of PadernoEnergia in the municipality of Paderno Dugnano (MI)

(2011-2013) Environmental Health Assessment in 10 municipalities of lower Brianza (VA-CO-MI);

(2011-2022) industrial hygiene investigations on ducted airborne emissions for the search for organic and inorganic micropollutants with Long Term techniques (a2a_ECOLOMBARDIA4)

(2012) Preliminary Health and Hygiene Assessment of a biomass thermal power plant located in the Municipality of Calizzano-Savona) Municipality of Calizzano

(2014) Health Impact Assessment in the municipalities involved in the S.S.340 "Regina" variant project in Tremezzina (Province of Como)

(2014) Health Impact Assessment in the municipalities involved in the project of the new intermodal terminal of Milano Smistamento (Terminal AlpTransit S.r.l. _ FSLogistica-Hupac)

(2014-2015) Toxicological Risk Assessment of Exposure to Toxic and/or Carcinogenic Chemical Agents for Workers of the WTE Plants of Padua and Trieste (ACEGAS APS AMGA)

(2015) Health Impact Assessment in the municipalities involved in the project of the New Shopping Centre of Segrate (Westfield Europe ltd)

(2015) Assessment of the Health and Ecotoxicological Impact of excavated earth and rocks related to the Third Pass High Speed Project MI_GE. (COCIV)

- (2015-2016) LANDMONITORING PROJECT - Validation campaign of the diffusive model in the field with the use of tracers at the Bolzano waste-to-energy plant (ECOCENTER-BZ)
- (2015-2016) Health Impact Assessment related to the EIA of a MSW and District Heating Coincineration plant in Piacenza (TECNOBORGO spa)
- (2015-2017) Assessment of the Health and Ecotoxicological Impact of excavated earth and rocks related to the project relating to the Ogliastrillo-Castelbuono railway doubling (Cefalù) TOTO spa Costruzioni Generali
- (2015-2017) Environmental and Health Impact Assessments of human activities and of the Provincial Road in the municipality of Lomello (PV).
- (2015-2019) EC LIFE_COBRA project and EC Horizon2020 LOWBRASYS project for the integrated assessment of the Environmental and Health Impact of an innovative braking system also with specific "green pads" developed by BREMBO in collaboration with FORD, CONTINENTAL TEVES, FEDERAL MOGUL, FLAME SPRAY, CGT ITALCEMENTI (2016) Integrated Environmental and Health Impact Assessment of a Toxic waste incinerator in Filago - BG (ECOLOMBARDIA4)
- (2016) Integrated Environmental and Health Impact Assessment of a Retorbido-PV Tyre Gasifier (TIRE)
- (2016) Assessment of the Health and Ecotoxicological Impact of excavated earth and rocks related to the project of the New Metro Line in Catania (CMC)
- (2016) Assessment of the Health and Ecotoxicological Impact of excavated earth and rocks related to the project of New railway line in the province of Caltanissetta (Empedocle2)
- (2016) Assessment of the Health and Ecotoxicological Impact of excavated earth and rocks related to the electrified doubling project of the Palermo Centrale - Carini railway line (SIS Stable Consortium)
- (2016-2017) Integrated Environmental and Health Impact Assessment of a landfill of waste containing Asbestos in Montichiari -BS (ECOETERNIT)
- (2016-2017) Integrated Environmental and Health Impact Assessment of the new special waste incinerator project of A2A Ambiente in the municipality of Corteolona-Genzone (PV)
- (2018) Applied research with Toxicological and Risk Assessment for Human Health and Evaluation of the Ecotoxicological Suitability of excavated earth and rocks with Conditioning Chemicals in a mesocosm study for the AVAC Brescia Verona railway line (CEPAV DUE).
- (2019) Environmental and Health Monitoring Plan for the determination of the impact on health in the area surrounding an Industrial Waste Incineration Furnace in the province of BG. (a2a_ECOLOMBARDIA4).
- (2020) Health Impact Assessments of the Holcim cement plant in the province of Varese (UNINSUBRIA)
- (2020-2022) "SLUDGE" (Advanced forms of sewage sludge management in a Lombardy Innovative Hub) LOMBARDY REGION
- (2021) Health Impact Assessments of the incinerator of the municipality of Spilimbergo (PN) managed by the ECOERIDANIA group (EcoMistral).
- (2021) Preliminary ecotoxicological study as part of the Final Design assignment of the Politecnico-Rebaudengo section of Line 2 of the Turin Automatic Metro (INFRA. TO)
- (2021-2023) PMAS ante operates as part of the Integrated Environmental and Health Impact Assessments (VIIAS) relating to the project of the new waste-to-energy plant for special non-hazardous waste in Corteolona-Genzone (PV) (a2a Environment)
- (2022) Health Impact Assessment according to the guidelines proposed by R. L. 2016, and ISPRA.2015, preliminary and preparatory to the EIA according to ISS 2019 guidelines (MONTELLOspa)

Dal 2022

He is **Senior Advisor of Industrial Hygiene and Environmental Toxicology** and **general manager** of the **#Ecologja c.r.s.g. business network**, and until **2025** he is **Senior Advisor of Industrial and Environmental Hygiene** of the Department of Environment and Health Research of the **Mario Negri Institute**:

(2022) Principal Investigator of the FANGHI project (Lombardy Region);

(2022-2023) Coordination of WP6 activities of the CE N-PETS project.

(2022-2024) Elaboration of an applied research with management of the environmental and health monitoring plan within the IRCCS topic "environmental diseases" and in the context of the integrated environmental and health impact assessment (Municipality of Gorla Maggiore)

2023 _ Integrated Environmental and Health Impact Assessment contextualized in the EIA context by applying the Guidelines for Health Impact Assessment (VIS) of the Istituto Superiore della Sanità (ISS 2019) in the area surrounding the settlement called LANDFILL PLANT FOR NON-HAZARDOUS WASTE located in the Municipality of Sezzadio (AL) Cascina Borio (DESMOS).

2023-2024_Valutazione Integrated Environmental and Health Impact Projects according to the VIIAS guidelines proposed to ISPRA (2015), contextualized in the EIA context by applying the Guidelines for Health Impact Assessment (VIS) of the Istituto Superiore della Sanità (ISS 2019) in the area surrounding the water & sun production plant in Vellezzo Bellini (PV) (ACQUA & SOLE).

2024_ Environmental monitoring for the determination of asbestos fibers and other Air Quality pollutants (ECOETERNIT, TECHNOINERTS).

Integrated Environmental and Health Impact 2024_Valutazione in the area surrounding the production plant of a plant for the permanent planting of hazardous waste containing asbestos, located in the locality called Caluri, site of the Municipality of Villafranca (VR)(TECNOINERTI).

2024_ Integrated Environmental and Health Impact Assessment contextualized in the EIA/SIA context by applying the criteria expressed in the Guidelines for Health Impact Assessment (VIS) of the Istituto Superiore della Sanità (ISS 2019) in the area surrounding the production plant of the new Microsoft MIL03 Data Center in Settimo Milanese (MI)- (JACOBS)

2024_ Industrial Hygiene Assessment with performance of night investigations to determine respiratory and skin exposure levels during the experimental paving phase of bituminous conglomerate - ANAS Roma (IMN)

2024_ Applied Research on Industrial Hygiene and Health Impact, to size the toxicological risk of personnel in the production department" (DELTA preg.).

2024-2025_Valutazione of Health Damage (VDS) DECREE of 24 April 2013 of the MINISTRY OF HEALTH in the area surrounding the production plant of landfill for non-hazardous waste and waste containing asbestos, located in the Municipality of Montichiari (BS) during the exercise of industrial activities (2013-2025). (ECOETERNIT)

2025_ Examination of the project: "Construction of a plant for the recovery of metals, aggregates and valorization of waste, reusable in the field of circular economy as technical materials in the construction and landfill sector" presented by GEA S.r.l. with plant headquarters: Via Brusà n. 6, Sant'Urbano (PD). (Municipality of Sant'Urbano PD)

2025_ Applied Research Study for the characterization of the properties of chemical substances useful for the evaluation of toxicological effects of environmental relevance within the OneHealth concept (FINCHIMICA)

2025_Indagine pilot Biomonitoring Api (MONTELLO spa).

2025 Applied Research in Industrial Hygiene and Health Impact, to size the risk from exposure of workers to some chemicals (CIVITANAVI SYSTEMS spa)

2026_Valutazione of Preliminary Health Impact for the construction of the stadium in Rome, with a toxicological Risk Assessment approach with regard to the air pollutants regulated in the operating scenario, (ARIANET-AIRIS).

2026_ "Pilot" investigation of Bee Biomonitoring in the area surrounding the MONTELLO plant relating to the analytical determination of pollutants in Biotic (API) and Abiotic (Honey, Pollen, Wax) matrices (MONTELLOspa)

2026_Valutazione of Preliminary Health Impact for the construction of the new stadium in Milan, with a toxicological approach of Risk Assessment, and epidemiological approach (AIRIS).

Main collaborations with Scientific Publications

Ecotoxicological effects of atmospheric particulates produced by braking systems on aquatic and edaphic organisms — Lodi M., Volta A., Sforzini S., Camurati C., Viarengo A., e altri.
Environment International, 2020.

Ecotoxicological maps: A new risk assessment method integrating traditional and in silico tools and its application in the Ledra river (Italy)- Raitano G., Goi D., Pieri V., Passoni A., Matussi M., Lutman A., Romeo I., Manganaro A., Marzo M., Porta N., Baderna D., Colombo A., Aneggi E., Natolino F., Lodi M., Bagnati R., Benfenati E.
Environment International, 2018, Vol.119 pages 275-286, ISSN 0160-4120.

Air quality in the Olona Valley and in vitro human health effects
Teoldi F, Lodi M, Benfenati E, Colombo A, Baderna D
Sci Total Environ 2017; 579: 1929-1939

Acute phytotoxicity of seven metals alone and in mixture: Are Italian soil threshold concentrations suitable for plant protection?
Baderna D, Lomazzi E, Pogliaghi A, Ciaccia A, Lodi M, Benfenati E
Environ Res 2015; 140: 102-111

Concentrations of PCDD/PCDF in soil close to a secondary aluminum smelter
Colombo A, Benfenati E, Bugatti S G, Celeste G, Lodi M, Rotella G, Senese V, Fanelli R
Chemosphere 2011; 85: 1719-1724

A combined approach to investigate the toxicity of an industrial landfill's leachate: Chemical analyses, risk assessment and in vitro assays.
Baderna D, Maggioni S, Boriani E, Gemma S, Molteni M, Lombardo A, Colombo A, Bordonali S, Rotella G, Lodi M, Benfenati E
Environ Res 2011; 111: 603-613

Assessing the environmental risks associated with contaminated sites: Definition of an Ecotoxicological Classification index for landfill areas (ECRIS) Senese V, Boriani E, Baderna D, Mariani Alessandro, Lodi M, Finizio A, Testa S, Benfenati E –
Chemosphere 2010; 80: 60-66

ERICA: A multiparametric toxicological risk index for the assessment of environmental healthiness
Boriani E, Mariani Alessandro, Baderna D, Moretti C, Lodi M, Benfenati E –
Environ Int 2010; 36: 665-674

PCDD/Fs in ambient air in north/east Italy: The role of a MSWI inside an industrial area
Colombo A, Benfenati E, Mariani G, Lodi M, Marras R, Rotella G, Senese V, Fattore E, Fanelli R
Chemosphere 2009; 77: 1224-1229

Environmental and ecological toxicology: computational risk assessment
Benfenati E, Azimonti G, Auteri D, Lodi M
In: *Computational toxicology. Risk assessment for pharmaceutical and environmental chemicals* John Wiley, Hoboken, NJ, 2007; 625-650

Main collaborations with Technical and Scientific Manuals

Emission Measurements, Sampling Strategies and Evaluation Criteria - UNICHIM Handbook n°158 /1988
(Bettinelli, Monelli, Brocco, Busà, Cavalchi, Cucinato, Chiapale, Cortesi, Foschini, Fuselli, Gori, Incerti, Lepore, Lodi, Malaspina, Marconi, Mora, Morselli, Peddis, Quagli, Riguzzi, Rolla, Scaglianti)

MeteoClimatological Classification of Days in Weather Types in Northern, Central and Southern Italy
(Giugliacci, Salerno, Fallini, Lodi) (1996)

Draft standard UNI_U53000510/ 2000 - Planning and conduct of air quality measurement campaigns (UNI Environment Commission – Air Quality Working Group, (Negri, Lodi, Lerda, Mamolini, Carbone, La Vecchia)