

## CURRICULUM VITAE

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**NAME:** Marino Nebuloni

**NATIONALITY:** Italian -

**EDUCATION:** 1967 Degree in Chemistry  
1975 Doctor Degree in Biological Sciences University of Milan

**EXPERIENCE:**

- 1969-1972 Research Chemist at the Physical Chem. Dept., R&D Carlo Erba Research Institute, Milan  
The research activity involved the study and the use, as a technician, of the most important analytical techniques (elemental analysis, spectroscopy UV NMR, MS, IR, chromatography)
- 1972-1979 Research Chemist at the Physical Chem. Dept., R&D Lepetit Research Center.  
The research activity involved the development of thermal analytical methods in pharmaceutical
- 1979-1984 Senior Research Specialist at the Analytical Res. Dept., Lepetit Research Center, Milan – DOW Chemical Italy  
The research activity involved the study of chemical and physical properties of organic compounds stability and reactivity and safety aspects in the industrial processes  
1984-1995  
-Head of Analytical Dept., Lepetit Research Center, Gerenzano. DOW Chemical  
-Testing of potentially hazardous chemicals used in the production plants in Italy (8), France (2) and England (1).
- 1995 -1997 DOW Chem Senior Research Scientist - Scientific Coordinator of Analytical Sciences Dep. - Development of analytical methods in support to physical pharmacy troubleshooting in manufacturing plants.
- 1997 Senior Director for Testing Lab at REDOX snc in Monza.  
Consultant in Hazard evaluation for Process Safety and Risk and HAZOP analysis.  
Assessment of physical properties of drug substance and drug product  
Named several times as a Technical Consulting for the Court after incident and patents litigations.
- 2006 Chairman of ASTM –E55 Group for FDA in PAT development in Pharmaceutical Solid State of DS and DP.

Consultant for international and national pharmaceutical companies  
for physical pharmacy of drug products.

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**1995 Total Quality System Auditor** (EN-ISO 9000/1/2/3/4) -

1996 Degree in "**Italian Quality Certification Auditor**" (AICO-Assoc. Italiana  
Certificazione Qualita')

2004 **Italian** - "*Direttore Tecnico in campo farmaceutico*" and **Qualified Person**

2006 **FDA/ASTM** - co-chairman of Process Analytical Technology (PAT) –  
committee (E55-2) on ICH Q-9 Rules (Risk Assessment)

2012 Reviewer of Journal Pharmaceutical Sci

#### **Teaching, Awards & MEMBERSHIPS OF PROFESSIONAL ASSOCIATIONS:**

- DOW Europe Award (first winner) for Excellence in Analytical Chemistry (1986)
- Chairman of Thermal Group in the DOW Chemical Europe Analytical Meeting (1986)
- Chairman of the Advisory Board of the European Reactive Chemical Data File(1986)
- Member of Council of "Società Chimica Italiana, Gruppo Interdivisionale di Calorimetria ed Analisi Termica" (1990)
- Member of commission for doctor degree assignment, Faculty of Pharmacy "Chimica e Tecnologia Farmaceutica", Nov. 1991, Milan University
- University Professor (temporary), Faculty of Pharmacy "Chimica e Tecnologia Farmaceutica", 1992, Pavia University
- Member of Council of "Società Chimica Italiana- Sezione Lombardia" 1993 Milano
- Member of commission for doctor degree assignment, Faculty of Pharmacy "Farmacia", March,1993, Milan University
- University Professor (temporary), Faculty of Pharmacy "Chimica e Tecnologia Farmaceutica", 1993, Parma University.
- Member of commission for doctor degree assignment, Faculty of Pharmacy "Farmacia", November,1994, Milan University
- University Professor (temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica" 1994, Milan University
- Chairman of Italian Chemical Society - Gruppo Interdivisionale Sicurezza in Ambiente Chimico (Group of Safety in Chemical Industry)-1996
- University Professor (temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica" 1996, Parma University

- University Professor (contract for three years), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on Safety in Pharmaceutical Production" 1998 - Parma University.
- University Professor (temporary), Faculty of Organic Chemistry "Facolta' di Chimica - Course on "Sicurezza ed impatto ambientale" -Diploma Universitario 1999 -2000 - Milano University.
- University Professor (temporary), Faculty of Organic Chemistry "Facolta' di Chimica - Course on "Sicurezza ed impatto ambientale" –Corso in Chimica Applicata e Ambientale 2001-2003 - Milano University.
- University Professor (contract for three years), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on La Sicurezza nella Pratica Farmaceutica" 2004-2006 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2006- Pavia
- University Professor ( temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on La Sicurezza nella Pratica Farmaceutica" 2007-2008 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2008- Pavia
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica master II level “Physical Pharmacy” 2007-2008 Siena University
- University Professor( temporary),,, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on La Sicurezza nella Pratica Farmaceutica" 2008-2009 - Parma
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2009- Pavia
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica master II level “Physical Pharmacy” 2008-2009 Siena University
- University Professor (temporary),,, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on La Sicurezza nella Pratica Farmaceutica" 2009-2010 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2010- Pavia
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica master II level “Physical Pharmacy” 2009-2010 Siena University
- University Professor ( temporary),,, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on La Sicurezza nella Pratica Farmaceutica" 2010-2011 - Parma University
- SIPSE University (temporary professor)- Course on Tecnology Transer in Pharmaceutical- 2011 – Lugano
- Washington University – (temporary professor) –Course on Process Analytical Technology PAT” - Seattle - 2011
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2011- Pavia
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica

- master II level "Physical Pharmacy" 2011-2012 Siena University
- University Professor ( temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on "La Sicurezza nella Pratica Farmaceutica" 2012-2013 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2012- Pavia
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica master II level "Physical Pharmacy" 2012-2013 Siena University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2013- Pavia
- University Professor ( temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on "La Sicurezza nella Pratica Farmaceutica" 2013-2014 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2014- Pavia
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica master II level "Physical Pharmacy" 2014-2015 Siena University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2014- Pavia
- University Professor ( temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on "La Sicurezza nella Pratica Farmaceutica" 2014-2015 - Parma University
- University Professor ( temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on "La Sicurezza nella Pratica Farmaceutica" 2015-2016 - Parma University
- University Siena, Faculty of Pharmacy "Chimica Tecnologia Farmaceutica master II level "Physical Pharmacy" 2015-2016 Siena University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2016- Pavia
- University Professor ( temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on "La Sicurezza nella Pratica Farmaceutica" 2016-2017 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2017- Pavia
- University Professor (temporary), Faculty of Pharmacy "Chimica Tecnologia Farmaceutica - Course on "Gestione integrate qualita',sicurezza, ambiente in Campo Farmaceutico" 2018-2019 - Parma University
- Pavia University – Master II level (Tecnologie Farmaceutiche) – 2018- Pavia
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## Invited Lectures in Public and Academic Contest

- Thermoanalytical techniques in pharmaceutical field. Faculty of Pharmacy, Milan University, Dec. 1982.
- Advanced course on industrial pharmacy. Chem. Pharm. Dept., Pavia University, Sept. 1983.
- Thermal analysis application in pharmaceutical field. Faculty of Pharmacy, Torino University, May 1984.
- Thermal methods of analysis in pharmaceutical industry". Chem. Dept., Roma University "La Sapienza", Nov. 1985.
- Reactive chemical tests in pharmaceutical industry. Indust. Pharm. Ass. (AFI), Milan, July 1985.
- Advanced course on safety and loss prevention. Federchim Ass., S.Donato Milanese, March 1986.
- Advanced course on dosage form studies in pharmaceutical field. Chem. Pharm. Dept., Pavia University, May 1986.
- Advanced course on safety in analytical labs. Soc. Chim. Ital., S.Donato Milanese, Oct. 1987.
- Advanced course on thermal analytical methods in pharmacy. Milan University, Jan. 1988.
- Advanced course on thermal analysis in pharmaceutical industry. Pavia University, Feb. 1988.
- Hazard condition related to drying process. Soc. Chim. Ital., Milan, June 1989.
- Advanced course on "Solid state characterization of organic compounds". Organic Chemistry Faculty, Milan University, Jan. 1990.
- Advanced course on "Assessment of hazards into industrial process". Scuola Quilico Polytechnic, Milan, Jan. 1990.
- Advanced course on "L'analisi termica nella preformulazione farmaceutica". Scuola di specializzazione farmaceutica, Pavia University, May 1990.
- Advanced course on "Strumenti e metodi per la valutazione delle esplosioni accidentali". SCI, Parma University, Nov. 1990.
- Advanced course on "Solid state characterization of organic compounds". Organic Chemistry Course, Milan University, Jan. 1991.
- Advanced course on "Assessment of hazards into industrial process". Scuola Quilico Polytechnic, Milan, Feb. 1991.
- Potential hazards from reagents accumulation. Barcellona University, "3rd Spanish Meeting on Reaction Calorimetry", Barcellona, Feb. 25, 1992.
- Analytical methods for solid state characterization of drugs. Lectures at Milan University, Faculty of Pharmacy, March-April 1992.
- Advanced Course on "Il rischio di esplosioni: valutazione, prevenzione e protezione". SCI e SNOP, Milano, May 5-7, 1992.
- Advanced Course on "Valutazione e prevenzione del rischio nell'industria chimica" Scuola Quilico- Politecnico di Milano, Jan. 93 -Milano
- Advanced Course on "Analytical methods for solid state characterization of

- drug substances". University of Pavia, March/April 1993.
- Advanced Course on "Valutazione e prevenzione del rischio nell'industria chimica" Scuola Quilico- Politecnico di Milano, Feb. 94 -Milano
- Advanced Course on "Valutazione e prevenzione del rischio nell'industria chimica: esplosioni da polvere" Scuola Quilico- Politecnico di Milano, Feb. 94 Milano
- Advanced Course on "Valutazione e prevenzione del rischio nell'industria chimica:" - Politecnico di Milano, March, 1995 - Milano
- Winner of Award in Reaction Calorimetry for Safety in Pharmaceutical Industry International Conference – Pontresina –CH 2003
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## **PUBLICATIONS**

Authors of more than 140 articles concerning physical pharmacy, risk evaluation in chemical plant and in physical characterization, reported in international and national journals.



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**15 Novembre 2019**

*l'Autorizzazione al trattamento dei dati personali ai sensi e per gli effetti del D.lgs. 196 del 30 giugno 2003 e s.m.i. e del Regolamento Europeo in materia di protezione dei dati personali, n. 679/2016.*