

INFORMAZIONI PERSONALI Paola Bocchini

 Bologna paola.bocchini@scuolemanzoni.it

Sesso Femmina

Data di nascita 20/12/1966

Nationalità Italiana

POSIZIONE Docente di Scienze Naturali

ESPERIENZA PROFESSIONALE

Docente di Scienze Naturali presso la scuola secondaria di II grado delle Scuole Manzoni di Bologna

Vicepreside della scuola secondaria di I e II grado della Scuole Manzoni di Bologna

Docente del modulo "Chimica Analitica Ambientale e Forense" presso il Master "Analisi Chimiche e Chimico-Tossicologiche Forensi"

Assegno di ricerca presso il Dipartimento di Chimica "G. Ciamician"

Ricercatore, III livello professionale, a termine ex art. 23, presso il "Centro di Studio per la Fisica delle Macromolecole", Consiglio Nazionale delle Ricerche

Collaboratore tecnico di enti di ricerca, VI livello professionale, a termine ex art. 23, presso il "Centro di Studio per la Conservazione dei Foraggi" Consiglio Nazionale delle Ricerche

ISTRUZIONE E FORMAZIONE

Abilitazione all'insegnamento per la classe di concorso A050 - Scienze Naturali, Chimiche e Biologiche nella Scuola Secondaria di II Grado.

Abilitazione all'insegnamento per la classe di concorso A028 - Matematica e Scienze nella Scuola Secondaria di I Grado.

Dottorato di ricerca in Scienze Chimiche presso l'Università di Bologna

Diploma di specializzazione in Metodologie Chimiche di Controllo e di Analisi presso l'Università degli Studi di Bologna

Laurea in Chimica presso l'Università di Bologna

Diploma di liceo scientifico presso Liceo Righi di Cesena

COMPETENZE PERSONALI

Lingua madre	Italiano
Altre lingue	Inglese (Comprensione B2 / Parlato B2)
Competenze comunicative	Buone competenze comunicative e relazionali
Competenze professionali	Buone competenze didattiche in metodologie e strategie di didattica attiva sviluppate durante gli anni di attività sia di insegnamento scolastico che di tutoraggio di studenti a livello universitario
Competenze informatiche	Buona conoscenza del pacchetto Office
Patente di guida	B

ULTERIORI INFORMAZIONI

Pubblicazioni

1. G. Chiavari, P. Bocchini, G. C. Galletti
Rapid Identification of Binding Media in Painting Using Simultaneous Pyrolysis Methylation Gaschromatography
Science and Technology for Cultural Heritage, 1 (1992) 15-158.
2. G. C. Galletti, P. Bocchini
Behaviour of Catechin and Ellagic Acid Subjected to Thermally-Assisted Hydrolysis-Methylation/Gas Chromatography/Mass Spectrometry
Rapid Communications in Mass Spectrometry, 9 (1995) 250-254.
3. G. C. Galletti, G. Chiavari, P. Bocchini
"Thermal Decomposition Products of Aspartame as Determined by Pyrolysis-Gas Chromatography/Mass Spectrometry
Journal of Analytical and Applied Pyrolysis, 32 (1995) 137-151.
4. G. C. Galletti and P. Bocchini
Pyrolysis/Gas Chromatography/Mass Spectrometry of Lignocellulose
Rapid Communications in Mass Spectrometry, 9 (1995) 815-826.
5. G. C. Galletti, V. Modafferi, M. Poiana, P. Bocchini
Analytical Pyrolysis and Thermally-Assisted Hydrolysis-Methylation of Wine Tannin
Journal of Agriculture and Food Chemistry, 43 (1995) 1859-1863.
6. G. C. Galletti, A. Camacini, P. Bocchini, A. Antonelli
Chemical Composition of Wood Casks for Wine Ageing as Determined by Pyrolysis/GC/MS
Rapid Communications in Mass Spectrometry 9 (1995) 1331-1334.
7. G. Chiavari, D. Fabbri, R. Mazzeo, P. Bocchini, G. C. Galletti
Pyrolysis/Gas Chromatography/Mass Spectrometry of Natural Resins Used for Artistic Objects
Chromatographia, 41 (1995) 273-281.
8. G. C. Galletti, P. Bocchini, G. Chiavari, D. Fabbri
High Performance Liquid Chromatography versus Gas Chromatography in the Analysis of Proteinaceous Painting Ligands
Fresenius' Journal of Analytical Chemistry, 354 (1996) 381-383.
9. G. C. Galletti and P. Bocchini
High-performance Liquid Chromatography/Electrochemical Detection of Aspartame with a Post-Column Photochemical Reactor
Journal of Chromatography A, 729 (1996) 393-398.
10. G. C. Galletti, M. T. Russo and P. Bocchini,

Pyrolysis/Gas Chromatography/Mass Spectrometry Used to Simultaneously Determine Essential Oil and Phenolic Compounds in the Monks' Pepper *Vitex Agnus-Castus* L. *Rapid Communications in Mass Spectrometry*, 9 (1995) 1252-1260.

11. G. C. Galletti, P. Bocchini, A. M. Smacchia, J. B. Reeves III
Monitoring Phenolic Composition of Maturing Maize Stover by High Performance Liquid Chromatography and Pyrolysis/Gas Chromatography/Mass Spectrometry
Journal of the Science of Food and Agriculture, 71 (1996) 1-9.

12. A. M. Gioacchini, A. Roda, G. C. Galletti, P. Bocchini, A. C. Manetta, M. Baraldini
High Performance Liquid Chromatography-Electrospray Mass Spectrometric Analysis of Phenolic Acids and Aldehydes
Journal of Chromatography A, 730 (1996) 31-37.

13. P. Bocchini, G. C. Galletti and A. Antonelli
Pyrolysis/ and Thermally Assisted Hydrolysis-Methylation/Gas Chromatography/Mass Spectrometry of Sound and Degraded Wine Bottle Cork
Rapid Communications in Mass Spectrometry, 10 (1996) 653-657.

14. A. Gutierrez, P. Bocchini, G. C. Galletti and A. Martinez
Analysis of Lignin-Polysaccharide Complexes Formed during Grass Lignin Degradation by Cultures of *Pleurotus* Species
Applied and Environmental Microbiology, 62 (1996) 1928-1934.

15. P. Bocchini, G. C. Galletti, R. Seraglia, P. Traldi, S. Camarero and A. T. Martinez
Matrix Assisted Laser Desorption Ionization Mass Spectrometry of Natural and Synthetic Lignin
Rapid Communications in Mass Spectrometry, 10 (1996) 1144-1147.

16. G. C. Galletti, P. Bocchini, A. M. Gioacchini and A. Roda
Analysis of the artificial sweetener aspartame by Means of Liquid Chromatography/Electrospray-Mass Spectrometry
Rapid Communications in Mass Spectrometry, 10 (1996) 1153-1155.

17. G. C. Galletti, P. Bocchini, A. T. Martinez and J. M. Pelayo
Use of Analytical Pyrolysis for the Characterization of Paper Industry Effluents
Analytica Chimica Acta, 335 (1996) 245-251.

18. G. C. Galletti, M. T. Russo and P. Bocchini
Essential Oil Composition of Leaves and Berries of *Vitex Agnus Castus* L. from Calabria, Southern Italy
Rapid Communications in Mass Spectrometry, 10 (1996) 1345-1350.

19. G. C. Galletti, P. Bocchini and L. F. D'Antuono
Fiber Composition of a Neglected Wheat Species (*Triticum dicoccum* Schubler) as Determined by Pyrolysis/Gas Chromatography/Mass Spectrometry
Journal of Agricultural and Food Chemistry, 44 (1996) 3133-3135.

20. G. C. Galletti, P. Bocchini, D. Cam, G. Chiavari and R. Mazzeo
Chemical Characterization of the Black Crust Present on the Stone Central Portal of St. Denis Abbey
Fresenius Journal of Analytical Chemistry, 357 (1997) 1211-1214.

21. G. C. Galletti, C. I. Muscarella, P. Bocchini and F. Cinti
Changes in the Phenolic Composition of Maize Stovers after Blooming
Journal of Agricultural and Food Chemistry, 44 (1996) 3840-3844.

22. G. C. Galletti, J. B. Reeves III, P. Bocchini and C. I. Muscarella
Compositional Differentiation of Maize Hybrid Stovers Using Analytical Pyrolysis and High Performance Liquid Chromatography
Journal of Agricultural and Food Chemistry, 45 (1997) 1715-1719.

23. J. Rodriguez, M. Hernandez, P. Bocchini, G. C. Galletti and M. E. Arias
Characterization by Pyrolysis/Gas Chromatography/Mass Spectrometry of the Alkali-lignin Obtained from Wheat Straw Soda-Cooking Effluents After Treatment with *Streptomyces* Strains
Rapid Communications in Mass Spectrometry, 10 (1996) 1869-1872.

24. G. C. Galletti, J. B. Reeves III and P. Bocchini.
Analytical Pyrolysis as a Tool to Determine Chemical Changes in Maize Stovers During Growth
Journal of Analytical and Applied Pyrolysis, 39 (1997) 105-114.

25. G. C. Galletti, P. Bocchini, M. Guadalix, G. Almendros, S. Camarero and A. Martinez
Pyrolysis Products as Markers in the Chemical Characterization of Paperboard from Waste Paper and Wheat Straw Pulps

Bioresource Technology, 60 (1997) 51-58.

26. P. Bocchini, G. C. Galletti, S. Camarero, A. T. Martinez
Absolute Quantitation of Lignin Pyrolysis Products Using an Internal Standard
Journal of Chromatography A, 773 (1997) 227-232.

27. J. Rodriguez, M. Hernandez, C. Arias, P. Bocchini and G.C. Galletti
Chemical Characterization by Pyrolysis/Gas Chromatography/Mass Spectrometry of Acid-precipitable Polymeric Lignin (APPL) from Wheat Straw Transformed by Selected Streptomyces Strain
Analytica Chimica Acta, 345 (1997) 121-129.

28. L. F. D'Antuono, G. C. Galletti and P. Bocchini
Fiber Quality of *Triticum dicoccum* Schbler and *T. monococcum* L. Landraces from Italy as Determined by Analytical Pyrolysis
Journal of the Science of Food and Agriculture, 78 (1998) 213-219.

29. M. Russo, G. C. Galletti, P. Bocchini, A. Carnacini
Essential Oil Chemical Composition of Wild Populations of Italian Oregano Spice (*Origanum vulgare* ssp. *hirtum* (Link) Letswaart): A Preliminary Evaluation of Their Use in Chemotaxonomy by Cluster Analysis. I. Inflorescences
Journal of Agricultural and Food Chemistry, (1998), in press.

30. P. Bocchini, M. Russo, and G. C. Galletti
Pyrolysis/Gas Chromatography/Mass Spectrometry Used as a Microanalytical Technique for the Characterization of *Origanum heracleoticum* from Calabria, Southern Italy
Rapid Communications in Mass Spectrometry 12 (1998) 1555-1563.

31. G. C. Galletti, L. F. D'Antuono, P. Bocchini, and I. Rosolen
Pyrolysis/Gas Chromatography/Mass Spectrometry (PY/GC/MS) of Spelt (*Triticum spelta* L.) pericarp
Rapid Communications in Mass Spectrometry, 12 (1998) 1801-1807.

32. C. Andalò, G. C. Galletti, and P. Bocchini
Quantitative GC/MS/MS Using Resonant and Non-Resonant Collisions in Ion-Trap
Rapid Communications in Mass Spectrometry, 12 (1998) 1777-1782.

33. P. Bocchini and P. Traldi
Organic Mass Spectrometry in our Cultural heritage
Journal of Mass Spectrometry, 33 (1988) 1053-1062.

34. G. Chiavari, G.C. Galletti, P. Bocchini, P. Russo, N. Gandini and D. Fabbri
Thermally Assisted Hydrolysis-Methylation/Gas Chromatography/Mass Spectrometry of Painting Layers from the Cupola of S. Maria del Fiore Cathedral in Florence
Science and Technology for Cultural Heritage, 7 (1998) 19-25.

35. S. Camarero, P. Bocchini, G. C. Galletti and A. T. Martinez
Pyrolysis-Gas Chromatography/Mass Spectrometry Analysis of Phenolic and Etherified Units in Natural and Industrial Lignin
Rapid Communications in Mass Spectrometry, 13 (1999) 630-636.

36. P. Bocchini, R. Pozzi, C. Andalò, and G. C. Galletti
Membrane Inlet Mass Spectrometry (MIMS) of Volatile Organohalogen Compounds in Drinking Water
Rapid Communications in Mass Spectrometry, 13 (1999) 1-5.

37. P. Bocchini, C. Andalò, D. Bonfiglioli, and G. C. Galletti
Solid-Phase Microextraction (SPME) –GC/MS Analysis of Volatile Organic Compounds (VOCs) in Waters
Rapid Communications in Mass Spectrometry, 13 (1999) 2133-2139.

38. Luigi Filippo D'Antuono, Guido Galletti, Paola Bocchini
Variability of Essential Oil Content and Composition of *Origanum Vulgare* L. Populations from a North Mediterranean Area (Liguria Region, Northern Italy)
Ann Bot-London, 86 (2000) 471-478.

39. C. Andalò, M. Bicchieri, P. Bocchini, G. C. Galletti, G. Casu, P. A. Mandò, M. Nardone, M. Plossi Zappalà, A. Sodo
The Beautiful «Trionfo d'Amore» Attributed to Botticelli: a Chemical Characterisation by Proton Induced X-ray Emission and Micro-Raman
Analytica Chimica Acta 429 (2001) 279-286.

40. C. Andalò, P. Bocchini, R. Pozzi and G. C. Galletti
Accurate Mass Measurement of Synthetic Analogues of Prazosine by MALDI-TOF-MS

Rapid Communications in Mass Spectrometry, 15 (2001) 665-669.

41. P. Bocchini, R. Pozzi, C. Andalò and G.C. Galletti
Experimental Upgrades of Membrane Introduction Mass Spectrometry for Water and Air Analysis
Analytical Chemistry 73 (2001), 3824-3827.

42. A.T. Martinez, S. Camarero, A. Gutierrez, P. Bocchini and G.C. Galletti
Studies on Wheat Lignin Degradation by Pleurotus Species Using Analytical Pyrolysis
Journal of Analytical and Applied Pyrolysis 58-59 (2001), 401-411.

43. S. Camarero, P. Bocchini, G.C. Galletti, M.J. Martinez and A.T. Martinez
Compositional Changes of Wheat Lignin by a Fungal Peroxidase Analyzed by Pyrolysis-GC-MS
Journal of Analytical and Applied Pyrolysis 58-59 (2001) 413-423.

44. M. Hernandez, M.J. Hernandez-Coronado, M.D. Montiel, J. Rodriguez, M.I. Perez, P. Bocchini, G.C. Galletti and M.E. Arias
Pyrolysis/Gas Chromatography/Mass Spectrometry as a Useful Technique to Evaluate the Ligninolytic Action of Streptomyces on Wheat Straw
Journal of Analytical and Applied Pyrolysis 58-59 (2001) 539-551.

45. P. Bocchini, C. Andalò, R. Pozzi, G.C. Galletti and A. Antonelli
Determination of Diallyl Thiosulfinate (Allicin) in Garlic (*Allium Sativum*) by HPLC with a Post-Column Photochemical Reactor
Analytica Chimica Acta 441 (2001) 37-43.

46. G.C. Galletti, P. Bocchini, F. Pinelli and R. Pozzi
Rapid Quality Checking of Polyethylene Water/Gas-Pipelines: a Model Based on Pyrolysis-Gas Chromatography/Mass Spectrometry and Discriminant Analysis
Journal of Analytical and Applied Pyrolysis 70 (2003) 291-302

47. R. Pozzi, F. Pinelli, P. Bocchini and G.C. Galletti
Rapid Determination of Methyl tert-Butyl Ether Using Dynamic Headspace/Ion Mobility Spectrometry
Analytica Chimica Acta 504 (2004) 313-317.

48. G.C. Galletti, R. Pozzi, P. Bocchini and F. Pinelli
Remote Monitoring of Organic Pollutants in Water by Means of Membrane Inlet Mass Spectrometry
Laboratorio 2000 18 (2004), 60-63.

49. R. Pozzi, P. Bocchini, F. Pinelli, G.C. Galletti
Rapid Analysis of Tile Industry Gaseous Emissions by Ion Mobility Spectrometry and Comparison with Solid Phase Micro-Extraction/Gas Chromatography/Mass Spectrometry
Journal of Environmental Monitoring 8 (2006), 1219-1226.

50. P. Bocchini, D. Dello Monaco, R. Pozzi, F. Pinelli and G.C. Galletti
Solid-Phase Microextraction Coupled to Gas Chromatography with Flame Ionization Detection for Monitoring of Organic Solvents in Working Areas
Microchimica Acta 165 (2009) 271-278.

51. F. Pinelli, P. Bocchini, R. Pozzi, G.C. Galletti
Chemical Analysis Applied to the Development of a Model for the Determination of Quality of PE Pipes
Journal of Analytical and Applied Pyrolysis 89 (2010) 44-50.

52. A. Martini, F. Botti, G. Galletti, P. Bocchini, G. Bazzocchi, P. Baronio, G. Burgio
The Influence of Pine Volatile Compounds on the Olfactory Response by Neodiprion sertifer (*Geoffroy*) Females
Journal of Chemical Ecology 36 (2010), 1114-1121.

53. R. Pozzi, P. Bocchini, F. Pinelli, G. C. Galletti
Determination of Nitrosamines in Water by Gas Chromatography/Chemical Ionization/Selective Ion Trapping Mass Spectrometry
Journal of Chromatography A 1218 (2011) 1808-1814.

54. P. Bocchini, F. Pinelli, R. Pozzi, F. Ghetti, G. C. Galletti
Quantitative determination of dimethyl fumarate in silica gel by solid-phase microextraction/gas chromatography/mass spectrometry and ultrasound-assisted extraction/gas chromatography/mass spectrometry
Environmental Monitoring and Assessment 187 (2015) 320-326.