

Summary of Dr. Roberto Maria Pellegrino's Curriculum Vitae

Date of Birth: 20/07/1963

Nationality: Italian

Work Address: University of Perugia, Department of Chemistry, Biology and Biotechnology, Via del Giochetto, Building B, 06123, Perugia, Italy.

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Summary

Roberto Pellegrino has been employed as a technician at the Department of Chemistry, Biology and Biotechnology of the University of Perugia since 1987 where he's dealt with instrumental analytical chemistry, with particular reference to chromatographic techniques and mass spectrometry.

He's a specialist in Analytical Chemistry, Mass Spectrometry, Metabolomics and Lipidomics.

Education

Masters Degree in Biological Science, 1992

University of Perugia – Perugia, Italy

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Professional Collaborations

Main contributions in analytical and bioanalytical chemistry to collaborations in the fields of:

- **Organic chemistry** (Prof. F. Fringuelli, University of Perugia)
- **Industrial and Process Chemistry** (Medivis Srl, Italy; Sterling SpA, Italy; COSVAL Srl, Italy; BONOLLO SpA, Italy; Distillerie Di Lorenzo Srl, Italy; Beaulieu Fibres International Terni s.r.l, Italy; Aboca SpA, Italy; NOVAMONT SpA, Italy; ALCANTARA SpA, Italy; Rocchetta SpA, Italy; Sommer SpA, Italy)
- **Biochemistry and Molecular Biology** (Prof. Cardinali L., University of Perugia; Prof. Cionini C. University of Pisa, Prof. Martino S. University of Perugia, Prof. Cataliotti A. Oslo University, Norwegian)
- **Veterinary** (Dr. Galarini R. IZSUM, Prof. Della Rocca, University of Perugia)
- **Medicine** (Prof. Cagini C. University of Perugia; prof. Lanfranco Corazzi, University of Perugia)
- **Environmental Chemistry** (TERNA Spa, Italy; INAIL; Italy)
- **Toxicology** (Tribunale di Perugia, Italy; Dr. Cattaruzza M.S. University La Sapienza, Rome, Italy; dr.Strano Rossi, Università Cattolica del Sacro Cuore, Roma, Italy)
- **Pharmaceutical and Food Chemistry** (Prof. Lucini L, University of Piacenza, Italy; BeFood Spa, Italy; QUARTIM SpA, Italy; Dr. Stefan Lorkowski, Nutritional Biochemistry - Institute of Nutrition Science - Friedrich Schiller University Jena, Germany)
- **Bioinformatics** (Dr. Hartler J. University of Graz, Austria; Prof. Cruciani G. Molecular Discovery Ltd)
- **Restoration chemistry** (Prof. Romani, Centro di Eccellenza SMAArt (Scientific Methodologies applied to Archaeology and Art) University of Perugia)
- **Geology** (Prof. Baldanza A., University of Perugia)

Professional Responsibilities at the University of Perugia

- Designed and managed two instrumental analytical chemistry laboratories with different LC/MS instrumentation (Orbitrap and QTOF): 2009-2017
- Head of the analytical consulting service of the Department of Chemistry for bodies outside the University of Perugia: 2009-2014
- Worked specifically on high resolution mass spectrometry applied to metabolomics and lipidomics: 2009-present
- Designed the High Resolution Mass Spectrometry Laboratory of the group of Biochemistry and Molecular Biology led by Prof. Carla Emiliani: 2017
- Head of the High Resolution Mass Spectrometry Laboratory of the group of Biochemistry and Molecular Biology led by Prof. Carla Emiliani: 2017-present

Teaching at the University of Perugia

Analytical Chemistry (teaching support): 1993-2010

Chemistry Lecturer: 2013-2014

Bioinformatics and Biostatistics Lecturer: 2019-present

Publications

- 54 Corte, L., Roscini, L., Pierantoni, D.C., Pellegrino R. M., Emiliani, C., Basaglia, M., Favaro, L., Casella, S., Cardinali, G. (2020). Delta-Integration of Single Gene Shapes the Whole Metabolomic Short-Term Response to Ethanol of Recombinant *Saccharomyces cerevisiae* Strains. *METABOLITES*, vol. 10, ISSN: 2218-1989, doi: 10.3390/metabo10040140
- 53 Clementi, C., Carlotti, B., Burattini, C., Pellegrino, R. M., Romani, A., Elisei, F. (2019). Effect of hydrogen bonding interaction on the photophysics of α -amino-orcein. *SPECTROCHIMICA ACTA. PART A, MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, vol. 214, p. 522-530, ISSN: 1386-1425, doi: 10.1016/j.saa.2019.02.057
- 52 Paola Angelini, Bruno Tirillini, Giancarlo Bistocchi, Andrea Arcangeli, Andrea Rubini, Roberto Maria Pellegrino, Roberto Fabiani, Gabriele Cruciani, Roberto Venanzoni, Patrizia Rosignoli (2018). Overview of the Biological Activities of a Methanol Extract from Wild Red Belt Conk, *Fomitopsis pinicola* (Agaricomycetes), Fruiting Bodies from Central Italy. *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*, vol. 20, p. 1047-1063, ISSN: 1521-9437, doi: 10.1615/IntJMedMushrooms.2018028595
- 51 Cruciani, Gabriele, Pellegrino, Roberto Maria, Di Veroli, Alessandra, Cataldi, Samuela, Marocco, Daniela, Costantini, Elisabetta, Sidoni, Angelo, Viola-Magni, Mariapia (2017). Diagnostic application of lipidomics fingerprints to bladder carcinoma. *TRANSLATIONAL CANCER RESEARCH*, vol. 6, p. 1197-1206, ISSN: 2218-676X, doi: 10.21037/tcr.2017.11.11

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- 49 Giuliani Claudia, Pellegrino R, Selvaggi Roberta, Tani, Corrado, Tirillini Bruno, Maleci Bini Laura (2017). Secretary structures and essential oil composition in *Stachys officinalis* (L.) Trevisan subsp. *officinalis* (Lamiaceae) from Italy. *NATURAL PRODUCT RESEARCH*, vol. 31, p. 1006-1013, ISSN: 1478-6419
- 48 Torquato Pierangelo, Ripa Orsola, Giusepponi Danilo, Galarini Roberta, Bartolini Desirée, Wallert Maria, Pellegrino Roberto, Cruciani Gabriele, Lorkowski Stefan, Birringer Marc, Mazzini Francesco, Galli Francesco (2016). Analytical strategies to assess the functional metabolome of vitamin E. *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*, vol. 124, p. 399-412-412, ISSN: 0731-7085, doi: 10.1016/j.jpba.2016.01.056
- 47 CAGINI, Carlo, Cometa, Francesco, Torroni, Giovanni, Pellegrino, Adriana, PELLEGRINO, Roberto Maria, Cavallini, Gian Maria (2016). Dexamethasone Disodium Phosphate Penetration Into the Human Aqueous Humor After Topical Application. *CURRENT EYE RESEARCH*, vol. 41, p. 897-899, ISSN: 0271-3683, doi: 10.3109/02713683.2015.1083589
- 46 PASQUALINI, Stefania, Paoletti, E., CRUCIANI, Gabriele, PELLEGRINO, Roberto Maria, EDERLI, Luisa (2016). Effects of different routes of application on ethylenediurea persistence in tobacco leaves. *ENVIRONMENTAL POLLUTION*, vol. 212, p. 559-564, ISSN: 0269-7491, doi: 10.1016/j.envpol.2016.03.017
- 45 Wallert M., Schmözl L., Ciffolilli S., Pellegrino R, Cruciani G., Glei M., Werz O., Mosig A., Rennert K., Galli F. (2015). Long-chain metabolites of vitamin E: A new class of regulatory metabolites modulating atherogenic processes?. *ATHEROSCLEROSIS*, vol. 241, p. 82-83, ISSN: 1879-1484
- 44 Cagini C, Piccinelli F, Lupidi M, Messina M, Cerquaglia A, Manes S, Fiore T, Pellegrino R (2015). Ocular penetration of topical antibiotics: study on the penetration of chloramphenicol, tobramycin and netilmicin into the anterior chamber after topical administration. *CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY*, vol. 43, ISSN: 1442-6404
- 43 Cagini C, Piccinelli F, Lupidi M, Messina M, Cerquaglia A, Manes S, Fiore T, Pellegrino R (2015). Penetration of topical chloramphenicol into the anterior chamber: response. *CLINICAL & EXPERIMENTAL OPHTHALMOLOGY*, vol. 43, p. 494, ISSN: 1442-9071, doi: 10.1111/ceo.12471
- 42 Lucini L, Pellegrino R, Cimino N, Kane D, Pretali L (2015). QqQ and Q-TOF liquid chromatography mass spectrometry direct aqueous analysis of herbicides and their metabolites in water. *INTERNATIONAL JOURNAL OF MASS SPECTROMETRY*, vol. 392, p. 16-22, ISSN: 1387-3806
- 41 Lucini L, Pellizzoni M, Pellegrino R, Molinari GP, Colla G. (2015). phytochemical constituents and in vitro radical scavenging activity of different Aloe species. *FOOD CHEMISTRY*, vol. 170, p. 501-507, ISSN: 1873-7072, doi: <http://dx.doi.org/10.1016/j.foodchem.2014.08.034>
- 40 Catia Clementi, Gloria Basconi, Roberto Pellegrino, Aldo Romani (2014). *Carthamus tinctorius* L.: A photophysical study of the main coloured species for artwork diagnostic purposes. *DYES AND PIGMENTS*, vol. 103, p. 127-137, ISSN: 0143-7208, doi: 10.1016/j.dyepig.2013.12.002

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- 38 Roberto Maria Pellegrino, Alessandra Di Veroli, Aurora Valeri, Laura Goracci, Gabriele Cruciani (2014). LC/MS lipid profiling from human serum: a new method for global lipid extraction. ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol. 406, p. 7937-7948, ISSN: 1618-2642, doi: 10.1007/s00216-014-8255-0
- 37 Wallert M., Mosig S., Rennert K., Funke H., Ristow M., Pellegrino R.M., Cruciani G., Galli F., Lorkowski S, Birringer M. (2014). Long-chain metabolites of α -tocopherol occur in human serum and inhibit macrophage foam cell formation in vitro. FREE RADICAL BIOLOGY & MEDICINE, vol. 68, p. 43-51, ISSN: 0891-5849, doi: 10.1016/j.freeradbiomed.2013.11.009
- 36 Sabina Strano-Rossi, Luca Anzillotti, Stefania Dragoni, Roberto Maria Pellegrino, Laura Goracci, Vincenzo Lorenzo Pascali, Gabriele Cruciani (2014). Metabolism of JWH-015, JWH-098, JWH-251, and JWH-307 in silico and in vitro: a pilot study for the detection of unknown synthetic cannabinoids metabolites. ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol. 406, p. 3621-3636, ISSN: 1618-2642, doi: 10.1007/s00216-014-7793-9
- 35 Di Salvo A, Pellegrino RM, Cagnardi P, Della Rocca G (2014). Pharmacokinetics and residue depletion of erythromycin in gilthead sea bream Sparus aurata L. after oral administration. JOURNAL OF FISH DISEASES, vol. 37, p. 797-803, ISSN: 0140-7775, doi: 10.1111/jfd.12170
- 34 A.Baldanza, R.Bizzarri, F.Famiani, P.Monaco, R.Pellegrino, P.Sassi (2013). Enigmatic, biogenically induced structures in Pleistocene marine deposits: a first record of fossil ambergris. GEOLOGY, vol. 41, p. 1075-1078, ISSN: 0091-7613, doi: 10.1130/G34731.1
- 33 Cagini C, Piccinelli F, Lupidi M, Messina M, Cerquaglia A, Manes S, Fiore T, Pellegrino RM. (2013). Ocular penetration of topical antibiotics: study on the penetration of chloramphenicol, tobramycin and netilmicin into the anterior chamber after topical administration. CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY, vol. 41, p. 644-647, ISSN: 1442-6404, doi: 10.1111/ceo.12087.
- 32 Di Salvo A., della Rocca G., Cagnardi P., Pellegrino R.M. (2013). Pharmacokinetics and residue depletion of erythromycin in rainbow trout, *Oncorhynchus mykiss* (Walbaum). JOURNAL OF FISH DISEASES, vol. 36, p. 1021-1029, ISSN: 0140-7775, doi: 10.1111/jfd.12074
- 31 F. Rosi, C. Clementi, M. Paolantoni, A. Romani, R. Pellegrino, B. G. Brunetti, W. Nowik, C. Miliani (2013). Study of Raman scattering and luminescence properties of orchil dye for its nondestructive identification on artworks. JOURNAL OF RAMAN SPECTROSCOPY, vol. 44, p. 1451-1456, ISSN: 0377-0486, doi: 10.1002/jrs.4254
- 30 Guglielmo Dusi, Giorgio Vago, Valentina Ghidelli, Pellegrino R, Roberta Galarini (2012). Analytical investigations about the presence of prednisolone in cow urine. JOURNAL OF MASS SPECTROMETRY, vol. 47, p. 1221-1231, ISSN: 1076-5174
- 29 Pellegrino R, Tinghino B, Mangiaracina G, Marani A, Vitali M, Protano C, Osborn JF, Cattaruzza MS (2012). Electronic cigarettes: an evaluation of exposure to chemicals and fine particulate matter. ANNALI DI IGIENE MEDICINA PREVENTIVA E DI COMUNITÀ, vol. 24, p. 279-288, ISSN: 1120-9135

- 28 Cagini C., Fiore T., Piccinelli F., Bartolini A., Riccitelli F., Pellegrino R.M. (2012). Penetration of Plurifloxacin in human aqueous humor following oral administration. ACTA OPHTHALMOLOGICA, vol. 90, p. 661-662, ISSN: 1755-375X, doi: 10.1111/j.1755-3768.2012.02409.x.
- 27 L. Tarpani, A. Vocci, R. Selvaggi, R. Pellegrino, F. Ruspolini, L. Taglieri, L. Latterini (2011). Solid phase analysis of polycyclic aromatic hydrocarbons by fluorimetric methods. APPLIED SPECTROSCOPY, vol. 65/2011, p. 1342-1347, ISSN: 0003-7028, doi: 10.1366/11-06332
- 26 Di Veroli A., Selvaggi R., Pellegrino R.M., Goretti E. (2010). Sediment toxicity and deformities of chironomid larvae in Lake Piediluco (Central Italy).. CHEMOSPHERE, vol. 79, p. 33-39, ISSN: 0045-6535, doi: 10.1016/j.chemosphere.2010.01.057
- 25 Cagini C, Leontiadis A, Ricci MA, Bartolini A, Dragoni A, Pellegrino RM. (2010). Study of alpha-lipoic acid penetration in the human aqueous after topical administration.. CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY, vol. 38, p. 572-576, ISSN: 1442-6404, doi: 10.1111/j.1442-9071.2010.02319.x
- 24 C Giuliani, Pellegrino R, B Tirillini, BL Maleci (2010). The role of secreting structures position on the leaf volatile organic compounds of Hypericum androsaemum.. NATURAL PRODUCT COMMUNICATIONS, vol. 5, p. 107-110, ISSN: 1934-578X
- 23 C Giuliani, Pellegrino R, B Tirillini, LM Bini (2009). Composition of essential oils from leaves and flowers of Stachys germanica subsp. salviifolia (Ten.) gams (Labiatae) and related secretory structures. NATURAL PRODUCT COMMUNICATIONS, vol. 4, p. 831-834, ISSN: 1555-9475
- 22 B Tirillini, Pellegrino R, M Chessa, GA Pintore (2008). Chemical composition of Thymus serrulatus Hochst. ex Benth. essential oils from Ethiopia: a statistical approach. NATURAL PRODUCT COMMUNICATIONS, vol. 3, p. 2069-2074, ISSN: 1555-9475
- 21 L. Minuti, R. M. Pellegrino (2008). Determination of phenolic compounds in wines by novel matrix solid-phase dispersion extraction and gas chromatography/mass spectrometry. JOURNAL OF CHROMATOGRAPHY A, vol. 1185, p. 23-30, ISSN: 0021-9673
- 20 Claudia Giuliani, Pellegrino R, Bruno Tirillini, Laura Maleci Bini (2008). Do Non-Aromatic Labiatae Produce Essential Oil? The Case Study of Prasium majus L.. NATURAL PRODUCT COMMUNICATIONS, vol. 3, p. 2079-2084, ISSN: 1555-9475
- 19 Buratta M., Castigli E., Sciaccaluga M., Pellegrino R.M., Spinozzi F., Roberti R., Corazzi L. (2008). Loss of cardiolipin in palmitate-treated GL15 glioblastoma cells favors cytochrome c release from mitochondria leading to apoptosis . JOURNAL OF NEUROCHEMISTRY, vol. 105, p. 1019-1031, ISSN: 0022-3042
- 18 C Giuliani, Pellegrino R, B Tirillini, LM Bini (2008). Micromorphological and chemical characterisation of Stachys recta L. subsp. serpentina (Fiori) Arrigoni in comparison to Stachys recta L. subsp. recta (Lamiaceae). FLORA, vol. 203, p. 376-385, ISSN: 0367-2530
- 17 Pellegrino RM., Segoloni F., Cagini C. (2008). Simultaneous determination of Ciprofloxacin and the active metabolite of Prulifloxacin in aqueous human humor by high-performance liquid chromatography. JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol. 47, p. 567-574, ISSN: 0731-7085, doi: 10.1016/j.jpba.2008.01.043

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- 15 FAGOTTI, Anna, MOROSI, Lorena, DI ROSA, Ines, CLARIONI, Romina, SIMONCELLI, Francesca, PASCOLINI, Rita, PELLEGRINO, Roberto Maria, Guex G., Hotz H. (2005). Bioaccumulation of organochlorine pesticides in frogs of the *Rana esculenta* complex in central Italy.. AMPHIBIA-REPTILIA, vol. 26, p. 93-104, ISSN: 0173-5373
- 14 Tirillini B, Pellegrino R, Bini LM (2004). Essential oil composition of *Stachys sylvatica* L. from Italy. FLAVOUR AND FRAGRANCE JOURNAL, vol. 19, p. 330-332, ISSN: 0882-5734, doi: 10.1002/ffj.1308
- 13 Tirillini B, Pellegrino R, Pagiotti R, Pocceschi N, Menghini L (2004). Volatile compounds in different cultivars of *Apium graveolens* L.. ITALIAN JOURNAL OF FOOD SCIENCE, vol. 16, p. 477-482, ISSN: 1120-1770
- 12 Tirillini B, Pellegrino R, Menghini L, Pagiotti R, Menghini A (2002). Composition of the essential oil of *Dictamnus albus* L. from Italy. JOURNAL OF ESSENTIAL OIL RESEARCH, vol. 14, p. 203-205, ISSN: 1041-2905
- 11 Ceccarelli M, Esposto MC, Roscini C, Sarri V, Frediani M, Gelati M T, Cavallini A, Giordani T, Pellegrino R, Cionini P G (2002). Genome plasticity in *Festuca arundinacea*: direct response to temperature changes by redundancy modulation of interspersed DNA repeats. THEORETICAL AND APPLIED GENETICS, vol. 104, p. 901-907, ISSN: 0040-5752, doi: 10.1007/s00122-001-0862-4
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- 2 Fringuelli F, Pellegrino R, Pizzo F (1994). Synthetic pathways for a cleaner production of organic substances. LIFE CHEMISTRY REPORTS, vol. 10, p. 171-179, ISSN: 0278-6281
- 1 FRINGUELLI F, PELLEGRINO R, PIZZO F (1993). FACILE AND SELECTIVE OXIDATION OF SULFIDES TO SULFOXIDES BY T-BUTYL HYDROPEROXIDE IN AQUEOUS-MEDIUM. SYNTHETIC COMMUNICATIONS, vol. 23, p. 3157-3163, ISSN: 0039-7911, doi: 10.1080/00397919308011174

Poster

- 6 Pellegrino R, Lucini L (2017). Identify unknown molecules by LC / HRMS: a new bioinformatics strategy in the field of lipidomics. In: (a cura di): Università degli Studi di Firenze Società Chimica Italiana - Divisione di Spettrometria di Massa, 50 anni di "MS-tandem": dove siamo arrivati e dove andiamo?. Università degli Studi di Firenze - piazza San Marco, 4 - Firenze, 12 dicembre 2017
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- 3 Cirlini M, Valeri A, Dall'Asta C, Pellegrino R, Goracci L (2014). In silico/in vitro approaches for zearalenone metabolism in human hepatocytes. In: The World Mycotoxin Forum - 8th Conference Mycotoxin control: the system approach. Vienna, 10-12 November 2014
- 2 A. DI SALVO, G. DELLA ROCCA, P. CAGNARDI, R. M. PELLEGRINO (2012). Pharmacokinetics of erythromycin in rainbow trout and sea bream. In: Abstracts of the 12th International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT 2012), 8–12 July 2012. JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS, vol. 35, suppl.3, p. 117, Johanna Fink-Gremmels and Arno Werners, ISSN: 0140-7783, Noordwijkerhout, The Netherlands., 8–12 July 2012, doi: 10.1111/jvp.120
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Conference Abstracts

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- 8 LUCHETTI F., SANTORO F., PALLOTTINI M., D'ALLESTRO V., DI VEROLI A., FABRIZI A., SELVAGGI R., PELLEGRINO R., CAPPELLETTI D., GORETTI E. (2011). Bioaccumulo in Anodonta anatina (Bivalvia) del Fiume Nestore (Umbria).. In: Atti XXI Società Italiana di Ecologia.
- 7 PALLOTTINI M., F. SANTORO, F. LUCHETTI, V. D'ALLESTRO, A. DI VEROLI, A. FABRIZI, R. SELVAGGI, R. PELLEGRINO, D. CAPPELLETTI, E. GORETTI (2011). Bioindicazione della comunità a macroinvertebrati del bacino del Fiume Nestore (Umbria). In: Atti 72° Congresso Unione Zoologica Italiana.
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