



**Europass
Curriculum Vitae**

PROF. FABIO VIANELLO

Personal Informations

Institution	UNIVERSITY OF PADOVA DEPARTMENT OF COMPARATIVE BIOMEDICINE AND FOOD SCIENCE
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Institutional E-mail	fabio.vianello@unipd.it
Nationality	Italian
Birth	February 3, 1962 in London (UK)
Degreee	Degree (Bachelor and Master) in Biological Sciences at the University of Padova (cum Laude) with a dissertation on "Purification and characterization of two casein kinases from bull spermatozoa", at the the Department of Biological Chemistry. PhD in Biophysics at the University of Genova, Italy, with a dissertation on "Use of fluoride ion for the study of biological systems".

Working Experiences

- Since 1992 to 2001, he was employed as technician in the Department of Biological Chemistry of the University of Padova.
- Since February 2nd, 2002, he is Associate professor of Biochemistry at the Faculty of Medicine of the University of Padova.
- Since 2012, he is working in the Department of Comparative Biomedicine and Food Science of the University of Padova, Italy.
- He performs teaching activity in biochemistry at the Course of Veterinary Medicine since October 1st, 2016.
- He performs teaching activity in biochemistry at the Course of Hygiene and Safety of Foods since October 1st, 2012.
- Member of the American Chemical Society
- From 2011 to 2013 he was coordinator of the Third Mission Commission of the Department of Comparative Biomedicine and Food Science of the University of Padova.
- From 2010 to 2012 he was member of the Commission for Spin-Off Companies of the University of Padova.
- Since 2015, he is member of the Commission for Post-Lauream Courses of the University of Padova.
- Since 2016, he has been nominated by the Rector University representative at Life Sciences Working Group of the Coimbra Group.
- He is a tutor in the PhD course of Veterinary Sciences
- He is Editor of the book "Food Quality, Safety and Technoplogy", February 2015 (edito dalla Springer-Verlag).
- From 2012 to 2017 he was visiting scientist at the Regional Centre for Advanced Materials and Technology of the Palacki University in Olomouc, Czech Republic.
- Since 2010 è Director of the Master course in "Food Quality and Safety" of the University of Padova, Italy.
- From 2008 to 2016 he was visiting professor in Food Biochemistry at the Universidade Estadual Paulista, SP, Brazil.
- From 2010 to 2014 he was the organizer of the International Summer Schools in "Food Quality and Safety" at the Botucatu campus of the Universidade Estadual Paulista, SP, Brazil.

- He is Associate Editor of scientific journals: Revista Brasileira de Fruticultura and Revista Brasileira de Plantas Mediciniais.
- In 2015 he founded a spin-off company - AINT s.r.l (Advanced Iron Nanotechnologies).

Reviewing activity

- He is the reviewer of scientific journals, such as, Archives Biochemistry Biophysic, Sensors and Actuators B: Chemical, Colloids and Surfaces B: Biointerfaces, Nanoscale, Revista Brasileira de Fruticultura, Journal of Molecular Catalysis, Biosensors and Bioelectronics, etc..

SCIENTIFIC COLLABORATIONS

- 1) Universidade Estadual Paulista, UNESP, Botucatu Campus, SP Brazil. **Prof. Giuseppina Pace pereira Lima**, for the biochemical characterization of food products.
- 2) Universidade Federal de Santa Catarina, Florianopolis, SC, Brazil. **Prof. Glaucia de Aragao**, for the nanotechnological applications in food industry.
- 3) Regional Centre for Advanced Materials and Technologies; Olomouc, Czech Republic. **Prof. Radek Zboril**, for the Biotechnological applications of nanomaterials.
- 4) Centre of the Region Haná for Biotechnological and Agricultural Research, Olomouc, Czech Republic. **Prof. Marek Sebela**, for the Development of biosensing devices for food industry.
- 5) Department of Plant Biology, University of New Hampshire, NH, USA. **Prof. Subhash Minocha**, for the Nanotechnological application for plant biotechnology.
- 6) Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, USA. **Prof. T.J. Thomas**, for the Nanotechnological application for biomedicine.

Research lines **Bionanotechnology:** Starting from novel superparamagnetic nanoparticles, constituted of stoichiometric maghemite ($\gamma\text{-Fe}_2\text{O}_3$), synthesized in the laboratory by an innovative and simple method in the dimension range of few nanometers, new biotechnological applications are going to be explored. The new material was patented and it now under characterization by different techniques, such as HRTEM, x-ray powder diffraction, magnetization measurements, Mössbauer, FTIR and optical spectroscopy. The nanometric maghemite product is very stable as a colloidal suspension without any surface coating and it is characterized by the ability to reversibly bind specific molecules on the bare iron oxide surface. These bare stoichiometric maghemite ($\gamma\text{-Fe}_2\text{O}_3$) nanoparticles can be easily used to bind organic molecules, DNA and enzymes. Fluorescent magnetically drivable nanocarriers are currently prepared and characterized using different enzymes, developing new fluorescent magnetically drivable nanocatalysts. The aim of future research projects is aimed to develop new simple procedures to isolate and purify proteins and nucleic acids and to propose new biosensors, based on electrochemical and gravimetric transducers.

Food analysis: The present research line is focused on the determination of the composition of food products, providing independent, 3rd party, chemical and physical analysis on an array of food, water, cosmetic and pharmaceutical. The laboratory produces credible and accurate testing, maintains officially approved methodologies and generates reliable results that can positively impact business. The research team offer a broad range of consulting and technical services to assist manufacturers, operators, distributors and retail providers in assuring the quality and safety of their food, beverage, pharmaceutical and cosmetic products.

Books.

- 1) Onisto M., Turolla R., Vianello F. P test, Piccin editore, 2007.
- 2) Lima, G.P.P., Vianello, F. (Eds.). Food Quality, Safety and Technology, 2013. Springer-Verlag ed. ISBN 978-3-7091-1639-5

107 scientific articles on international peer reviewed journals.

74 conference proceedings, communications at national and international congress, among which often as Invited Speaker.

Patents

1. Patent.T1997PD00009. Rigo, A., Pizzariello, A., Scarpa, M., Signor, L. e Vianello, F. (1997). "Procedimento per la determinazione in flusso di un analita mediante biomolecole aventi elevata affinità per l'analita stesso".
- 2) Patent n° RM 2004/A000588. Rigo, A. e Vianello, F. (2004). "Metodo per la misura, in continuo e non, dell'aldeide formica nell'atmosfera mediante l'impiego di un biosensore enzimatico e dispositivo operante secondo tale metodo".
- 3) World Patent: WO/2010/026550. Rigo A., Magro M., Vianello F., Zennaro L., Scarpa M., Tognon G. (2010) "Method for preparing aqueous solutions of single titanium oxide nanotubes and aqueous solutions of nanotubes obtained with such method"
- 4) International Patent Application WO2012/010200 A1; US 8,980, 218 B2. Magro, M., Valle, G. Russo, U., Nodari, L. and Vianello, F. (2012). "Maghemite nanoparticles and method for preparing thereof"
- 5) Patent n. WO2016/157027 A1. Bettinsoli L., Braga M., Braga R., Gatti A., Magro M. and Vianello F. (2016) "Apparatus and method for a separation through magnetic nanoparticles".
- 6) Patent PCT n. WO2017/017561 A1. Braga M., Magro M. and Vianello F. (2017) "Aqueous formulation comprising SDS, TCA, and a colloidal suspension of iron(III) for use in the topical treatment of micro-organisms and parasites".

1. Scarpa, M., Viglino, P., Vianello, F. and Rigo, A.: "¹⁹F NMR study of the interactions of fluoride with Superoxide Dismutase and Hemoglobin in erythrocytes" *Biochem. Biophys. Res. Commun.*, 1991, 174, 163-168.
2. Ruzzene, M., Vianello, F., Donella-Deana, A. and Deana, R.: "Purification and characterization of two casein Kinases from ejaculated bovine spermatozoa" *J. Biochem.*, 1992, 112, 768-774.
3. Vianello, F., Di Paolo M.L., Zennaro, L., Stevanato, R. and Rigo, A.: "Isolation of bovine plasma amine oxidase by a two-step procedure" *Prot. Expr. and Purif.*, 1992, 3, 362-367.
4. Vianello, F., Di Paolo, M.L., Gasparini, R., Stevanato, R., Scarpa, M. and Rigo, A.: "Purification and characterization of amine oxidase from soybean seedling" *Arch. Biochem. Biophys.*, 1993, 307, 35-39.
5. Scarpa, M., Vianello, F., Rigo, A., Viglino, P., Bracco, F. and Battistin, L.: "Uptake and life time of fluoride ion in rats by ¹⁹F NMR" *Magn. Reson. Imaging.*, 1993, 11, 697-703.
6. Gasparini, R., Scarpa, M., Vianello, F., Mondovi', B. and Rigo, A.: "Renewable miniature sensing devices" *Anal. Chim. Acta.*, 1994, 294, 299-304.
7. Vianello, F., Momo, F., Scarpa, M. and Rigo, A.: "Kinetics of nitroxide spin label removal in biological systems. An in vitro and in vivo ESR study" *Magn. Reson. Imaging.*, 1995, 13, 219-226.
8. Di Paolo, M.L., Vianello, F., Stevanato, T. and Rigo A.: "Kinetic characterisation of soybean seedling amine oxidase." *Arch. Biochem. Biophys.*, 1995, 323, 329-334.
9. Stevanato, R, Vianello, F. and Rigo, A.: "Thermodynamic analysis of the oxidative deamination of polyamines by bovine serum amine oxidase" *Arch. Biochem. Biophys.*, 1995, 324, 374-378.
10. Scarpa, M., Momo, F., Viglino, P., Vianello, F. and Rigo, A.: "Activated oxygen species in the oxidation of glutathione. A kinetic study." *Biophys. Chem.*, 1996, 60, 53-61.
11. Scarpa, M., Vianello, F., Signor, L., Zennaro, L. and Rigo, A.: "Ascorbate oxidation catalyzed by copper(II)-histidine." *Inorg. Chem.*, 1996, 35, 5201-5206.
12. Vianello, F., Stefani, A. Di Paolo, M.L., Rigo, A., Lui, A., Margesin, B., Zen, B., Scarpa, M. and Soncini, G.: "Potentiometric detection of formaldehyde in air by an aldehyde dehydrogenase FET." *Sensors and Actuators B.*, 1996, 37, 49-54.
13. Stevanato, R., Gasparini, R., Di Paolo, M., Vianello, F., and Rigo, A. "Substrate structure and bovine serum amine oxidase activity". *Ital. J. Biochem.*, 1997, 46, 109-112.
14. Vianello, F., Scarpa, M., Viglino, P. and Rigo, A.: "Deuterium distribution in lactate as tracer of metabolic pathways" *Biochem. Biophys. Res. Commun.*, 1997, 237, 650-652.

Original scientific articles

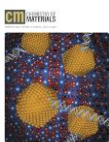
15. Vianello, F., Signor, L., Pizzariello, A., Di Paolo, M.L., Scarpa, M., Hock, B., Giersch, T. and Rigo, A.: "Continuous flow immunosensor for atrazine detection" *Biosensors and Bioelectronics*. 1997, 13, 45-53.
16. Bortoluzzi, S., Di Paolo, M.L., Rigo, A., Vianello, F. and Zennaro, L.: "Characterization of thin layers of glucose oxidase". *Boll. Soc. It. Biol. Sper.* 1998, 74, 61-66.
17. Vianello, F., Malek Mirzayans, A., Di Paolo, M.L., Stevanato, R. and Rigo A.: "Purification and characterization of amine oxidase from pea seedlings" *Prot. Exp. Purif.* 1999, 15, 196-201.
18. Marcazzan, M., Vianello, F., Scarpa, M. and Rigo, A.: "An ESR assay for alpha-amylase activity toward succinylated starch, amylose and amylopectin" *J. Biochem. Biophys. Meth.* 1999, 38, 191-202.
19. Corazza, A., Vianello, F., Zennaro, L., Gourova, N., Di Paolo M.L., Signor, L., Marin, O., Rigo, A. and Scarpa, M.: "Enzyme mimics complexing Cu(II) ion: structure-function relationships" *Journal of Peptide Research*. 1999, 54, 491-504.
20. Vianello, F., Zennaro, L., Di Paolo, M.L., Rigo, A., Malacarne, C. and Scarpa, M. "Preparation, morphological characterization and activity of thin films of horseradish peroxidase". *Biotechnology and Bioengineering*, 2000, 68, 488-495.
21. Rigo, A., Vianello, F., Clementi, G., Rossetto, M., Scarpa, M., Vrhosek, U. and Mattivi, F. "Contribution of proanthocyanidins to the peroxy radical scavenging capacity of some italian red wines". *J. Agr. Food Chem.* 2000, 48, 1996-2002.
22. Scarpa, M., Corazza, A., Vianello, F., Rigo, A., Furian, L., Baldan, N. and Rigotti, P. "Deuterium nuclear magnetic resonance for evaluating the metabolic status of livers subjected to warm ischemia". *Transplantation*, 2001, 71, 1515-1517.
23. Rossetto, M., Vianello, F., Rigo, A., Vrhosek, U., Mattivi, F. and Scarpa, M. "Stable free radicals as ubiquitous components of red wines". *Free Radical Research.*, 2001, 35, 933-939.
24. Vianello, F., Bortoluzzi, S., Zennaro, L. and Rigo, A. "Determination of glucose oxidase immobilised as monolayer onto a flat surface". 2002, *J. Biochem. Biophys. Meth.*, 51, 263-271
25. Corazza, A., Vianello, F., Rigo, A., Cadrobbi, R., Baldan, N., Rigotti, P. and Scarpa, M. 2003. "Biphasic behavior of the kinetics of ³¹P-containing metabolites in ischemic porcine kidneys", *Transplantation Proceedings*, 35, 3111-3115.
26. Di Paolo, M.L., Stevanato, R., Corazza, A., Vianello, F., Lunelli, L., Scarpa, M. and Rigo, A. 2003. "Bovine serum amine oxidase activity and substrate structure: physical control of the activity". *Biochem. J.* 371, 549-556.

27. Vianello, F., Cambria, A., Ragusa, S., Cambria, M.T. and Rigo, A. "A high sensitivity amperometric biosensor using a monomolecular layer of laccase as biorecognition element". 2004, *Biosensors and Bioelectronics*, 20, 315-321.
28. Vianello, F., Ragusa, S., Cambria, M.T. and Rigo, A. "A high sensitivity amperometric biosensor using laccase as biorecognition element". 2006, *Biosensors and Bioelectronics*, 21, 2155-2160.
29. Bordin, L., Quartesan, S., Zen, F., Vianello, F. and Clari, G. "Band 3 tyr-phosphorylation in human erythrocytes from non-pregnant and pregnant women". 2006, *Biochimica Biophysica Acta*, 1758, 611-619.
30. Rigobello, M.P., Vianello, F., Folda, A., Roman, C., Scutari, G. and Bindoli A. "Differential effect of calcium ions on the cytosolic and mitochondrial thioredoxin reductase", 2006, *Biochemical and Biophysical Research Communications*, 343, 873.
31. Vianello, F., Boscolo-Chio, R., Signorini, S., and Rigo, A. "On-line detection of atmospheric formaldehyde by a conductometric biosensor". 2007, *Biosensors and Bioelectronics*, 22, 920-925.
32. Vianello, F., Zennaro, L. and Rigo, A. "A coulometric biosensor to determine hydrogen peroxide using a monomolecular layer of horseradish peroxidase immobilized on a glass surface". 2007, *Biosensors and Bioelectronics*, 22, 2694-2699.
33. De Iuliis, A., Arrigoni, G., Andersson L., Zambenedetti P., Burlina A., James P., Arslan P. and Vianello F. "Oxidative metabolism of dopamine in human midbrain: protein identification by colour reaction on native gel analysed by mass spectrometry". 2008, *Biochimica Biophysica Acta, Proteins and Proteomics*, 1784, 1687-1693.
34. Cardillo S., De Iuliis A., Battaglia V., Toninello A., Stevanato R. and Vianello F. "Novel copper amine oxidase activity from rat liver mitochondria matrix". 2009, *Archives of Biochemistry and Biophysics*, 485, 97-101.
35. De Iuliis, A.; Cecchinato, P.; Mercanti, G.; Arrigoni, G.; Vianello, F.; Giusti, P.; Arslan, P. "Dopamine peroxidation: a novel study from rat brain areas" 2009. *Eur. J. Neurol.* 16, 527-527.
36. De Iuliis, A.; Cecchinato, P.; Arrigoni, G.; Zambenedetti, P.; Vianello, F.; Arslan, P. "Dopamine peroxidation: new evidences in human cerebellum. 2009. *Eur. J Neurol.* 16, 174-174.
37. Viu A.F.M., Viu M.A.O., Tavares A.R., Vianello F., Lima G.P.P. "Endogenous and exogenous polyamines in the organogenesis in *Curcuma longa* L.". 2009, *Scientia Horticulturae*, 121, 501-504.

38. Lima G.P.P., do Vale Cardoso Lopes T., Rossetto M.R.M. and Vianello F. "Nutritional composition and phenolic compounds and nitrate content in eatable vegetables obtained by conventional and certified organic grown culture". 2009, *International Journal of Food Science and Technology*, 44, 1118–1124.
39. Rossetto M.R.M., Vianello F., da Rocha S.A. and Lima G.P.P., "Antioxidant substances and pesticide in parts of beet organic and conventional manuring". 2009. *African Journal of Plant Science*, 3, 245 - 253.
40. da Silva Vieira M.R., Teixeira da Silva J.A., Lima G.P.P. and Vianello F. "Changes in polyamine, total protein and total carbohydrates content and peroxidase activity during the lifetime of *Chrysanthemum* 'Faroe'". 2010. *Floriculture and Ornamental Biotechnology*, 4, 48-52.
41. Lima G.P.P. and Vianello F. "Review on the main differences between organic and conventional plant based foods. 2011, *International Journal of Food Science & Technology*, 46, 1–13
42. Stevanato R., Cardillo S., Braga M., De Iulii A., Battaglia V., Toninello A., Agostinelli E., Vianello F. "Preliminary kinetic characterization of a copper amine oxidase from rat liver mitochondria matrix. 2011, *Amino Acids*, 40, 713-720.
43. Corrêa, L.C., Santos C.A.F., Vianello F. and Lima, G.P.P. "Antioxidant content in guava (*Psidium guajava*) and araçá (*Psidium* spp.) germplasm from different Brazilian regions". 2011, *Plant Genetic Resources*, 9, 384-391.
44. Bomfim M.P., Lima G.P.P., A. Rebouças São José, Vianello F., de Oliveira L.M. "Post-harvest conservation of 'Tommy Atkins' mangoes treated with 1-metilciclopropene". 2011, *Rev. Bras. Frutic*, 33, 290-297.
45. Agostinelli E., Toninello A., Vianello F. and Stevanato R. "Do mammalian amine oxidases and the mitochondrial polyamine transporter have similar protein structures?" 2012, *Amino acids*, 42, 725-731.
46. Magro M., Sinigaglia G., Nodari L., Tucek J., Kluchova K., Cardillo S., Salviulo G., Russo U., Zboril R., Stevanato R. and Vianello F. "Charge binding of rhodamine derivative to OH⁻ stabilized nanomagemite – Universal nanocarrier for construction of magnetofluorescent biosensors". 2012, *Acta Biomaterialia*, 8, 2068-2076. doi.org/10.1016/j.actbio.2012.02.005.
47. Sinigaglia G., Magro M., Miotto G., Cardillo S., Agostinelli E., Zboril R., Bidollari E. and Vianello F. "Catalytically active bovine serum amine oxidase bound to fluorescent and magnetically drivable nanoparticles". 2012, *International Journal of Nanomedicine*. 7, 2249 – 2259.
48. Borges, L.daS., Vieira, M.A.R., Marques M.O.M., Vianello F. and Lima G.P.P. "Influence of Organic and Mineral Soil Fertilization on Essential Oil of *Spilanthes oleracea* cv. Jambuarana". 2012. *American Journal of Plant Physiology*, 7, 135-142.

49. Lima G.P.P., Da Silva J.T., Barnhard A.B., Pirozzi D.C.Z., Fleuri L.F. and Vianello F. Organic and conventional fertilisation procedures on the nitrate, antioxidants and pesticide content in parts of vegetables". 2012, *Food Additives and Contaminants: Part B.*, 5, 188–193.
50. Tavares A.R., Kanashiro S., Castilho C.C, Vianello F. and G.P.P. Lima. Effect of spermidine on ornamental bromeliad cultured in vitro. 2012, *African Journal of Biotechnology*, 11, 13988-13991.
51. Merlin, T.P.A., Lima, G.P.P., Leonel, S., Vianello, F. Peroxidase activity and total phenol content in citrus cuttings treated with different copper sources. 2012. *South African Journal of Botany*, 83, 159–164,
52. Magro M., Faralli, A., Baratella D., Bertipaglia, I., Giannetti, S., Salviulo, G., Zboril R. and Vianello F. Avidin functionalized maghemite nanoparticles and their application for recombinant human biotinyl-SERCA purification. 2012. *Langmuir*, 28, 15392-153401.
53. Rossetto M.R.M., Shiga T.M., Vianello F. and Lima G.P.P. "Analysis of total glucosinolates and chromatographically purified benzylglucosinolate in organic and conventional vegetables. 2013, *LWT - Food Science and Technology*, 50, 247-252.
54. Magro M., Baratella D., Pianca N., Toninello, A., Grancara, S., Zboril R. and Vianello F. Electrochemical determination of hydrogen peroxide production by isolated mitochondria: a novel nanocomposite carbon-maghemite nanoparticle electrode. 2013. *Sensors and Actuators B: Chemical*, 176, 315-322.
55. Baratella D., Magro M., Sinigaglia, G., Zboril R., Salviulo, G., and Vianello F. A glucose biosensor based on surface active maghemite nanoparticles. 2013. *Biosensors and Bioelectronics*, 45, 13–18.
56. Lima G.P.P., Machado T.M., Furtado N.R., Fleuri L.F., de Souza Vieira M.C., Oliveira L.M., Vianello F. Influence of sanitation on the physico-chemical and microbiological quality of organic and conventional broccoli. 2013, *African Journal of Biotechnology*, 12, 2456-2463.
57. Zennaro L., Magro M., Vianello F., Rigo A., Mariotto G., Giarola M., Froner E., Scarpa M. Stable aqueous solutions of naked titanate nanotubes. 2013, *ChemPhysChem.*, 14, 2786–2792.
58. Grancara, S., Martinis, P., Agostinelli, E., Bragadin, M., Manente, S., Vianello, F., Toninello, A. Mechanism and pathophysiological role of polyamine transport in mammalian mitochondria. Answer to debated questions. 2013. *Mini-Reviews in Organic Chemistry*, 10, 103-112.
59. Homaei A.A., Sariri R., Vianello F. and Stevanato R. Enzyme immobilization: an update. 2013. *Journal of Chemical Biology*. 6, 185 – 205.
60. Magro M., Baratella D., Salviulo G., Polakova K., Zoppellaro G., Tucek J., Kaslik J., Zboril R., and Vianello F. Core-Shell Hybrid Nanomaterial based on Prussian Blue and Surface Active Maghemite Nanoparticles as Stable Electrocatalyst. 2014. *Biosensors and Bioelectronics*, 52, 159–165

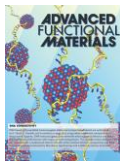
61. Venerando R., Miotto G., Magro M., Dallan M., Baratella D., Bonaiuto E., Zboril R., Vianello F. Magnetic Nanoparticles with Covalently Bound Self-Assembled Protein Corona for Advanced Biomedical Applications. 2013. *J. Phys. Chem. C*, 117, 20320–20331.
62. Vianello F., Miotto G., Cambria M.T., Lima G.P.P., Vanzani P., Di Paolo M.L. Kinetic role of a histidine residue in the T1 copper site of the laccase from *Rigidoporus lignosus*. 2014. *J. Mol. Catal.: B enzymatic*. 99, 34–42.
63. Lima G.P.P., Machado T.M., Manoel de Oliveira L., da Silva Borges L., Pedrosa V.A., Vanzani P., Vianello F. Ozonated water and chlorine on the antioxidant properties of organic and conventional broccoli during postharvest. 2014. *Scienza Agrigola*, 71, 151-156.
64. Lima G.P.P., Vianello F., Correa C.R., Campos R.A.S., Borguini M.G. Polyphenols in fruits and vegetables and its effect on human health. 2014. *Food and Nutrition Sciences*, 5, 1065-1082.
65. Magro M., Campos R.A.S., Baratella D., Lima G.P.P., Holà K., Divoky C., Stollberger R., Malina O., Aparicio C., Zoppellaro G., Zboril R., Vianello F. A novel magnetically drivable nano-vehicle for curcumin with antioxidant capacity and MRI relaxation properties. 2014. *Chemistry: A European Journal*. 20, 11913-11920. Inserted in **Hot Topics** by Wiley-VHC.
66. Skopalik J., Polakova K., Havrdova M., Justan I., Magro M., Milde D., Knopfova L., Smarda J., Polakova H., Gabrielova E., Vianello F., Michalek J., Zboril R. Mesenchymal stromal cell labeling by new uncoated superparamagnetic maghemite nanoparticles in comparison with commercial Resovist – an initial in vitro study. 2014, *International Journal of Nanomedicine*, 9, 5355-5372.
67. Urbanova V., Magro M., Gedanken A., Baratella D., Vianello F., Zboril R. Nanocrystalline Iron Oxides, Composites and Related Materials as Advanced Electrochemical, Magnetic, and Chemical Biosensors. 2014, *Chemistry of Materials*, 26, 6653–6673.



Cover art

68. Piccinetti C.C., Montis C., Bonini M., Laurà R., Guerrera M.C. Radaelli G., Vianello F., Santinelli V., Maradonna F., Nozzi V., Olivotto I., Transfer of silica-coated magnetic (Fe₃O₄) nanoparticles through food: a molecular and morphological study in zebrafish. 2014, *Zebrafish*, 11, 567-579.
69. Prado, D.Z., Dionizio, R.C., Vianello, F., Magro, M., Lima, G.P.P. Can hydrogen peroxide and quercetin improve production of *Eucalyptus grandis* x *Eucalyptus urophylla*? 2014, *African Journal of Biotechnology*, 13, 2819-2829.

70. Agostinelli, E., Vianello, F., Magliulo G., Thomas, T. and Thomas, T.J., Nanoparticle strategies for cancer therapeutics: Nucleic acids, polyamines, bovine serum amine oxidase and iron oxide nanoparticles (Review). 2015, *International Journal of Oncology*, 46, 5-16.
71. Magro M., Campos R., Baratella D., Ferreira M.I., Bonaiuto E., Corraducci V., Uliana M.R., Lima G.P.P., Santagata S., Sambo P., Vianello F., Magnetic purification of curcumin from *Curcuma Longa* rhizome by novel naked maghemite nanoparticles. *Journal of Agricultural and Food Chemistry*, 2015, 63, 912–920.
72. Bonaiuto E., Grancara S., Martinis P., Stringaro A., Colone M., Agostinelli E., Macone A., Stevanato R., Vianello F., Toninello A., Di Paolo M.L., A novel enzyme with spermine oxidase properties in bovine liver mitochondria: individualization and kinetic characterization. 2015, *Free radicals in Biology & Medicine*. 8, 88–99.
73. Magro M., Baratella D., Jakubec P., Zoppellaro G., Tucek J., Aparicio C., Venerando R., Sartori G., Francescato F., Mion F., Gabellini N., Zboril R., Vianello F., Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles. 2015, *Advanced Functional materials*, 25, 1822–1831.



Cover art

74. da Silva J.P., Costa S.M., de Oliveira L.M., Vieira M.C.S., Vianello F., Lima G.P.P. “Does the use of ozonized water influence the chemical characteristics of organic cabbage (*Brassica oleracea* var. capitata)?” 2015, *J. Food Sci. Technol.*, 52, 7026–7036.
75. Lima M.d.S., Leite A.P.S., Sampaio Y.C., Vianello F., Lima G.P.P.,” Influences of the Harvest Season on Analytical Characteristics of Syrah Grapes and Wines Produced in the Northeast Region of Brazil” 2015, *International Journal of Agriculture and Forestry* 5(2): 151-159.
76. Rossetto M.R.M., Vianello F., Saeki M.J., Lima G.P.P., “Polyamines in conventional and organic vegetables exposed to exogenous ethylene”. 2015. *Food Chemistry*, 188, 218-224.
77. Vieira, M.R.S., Lima, G.P.P., Vianello, F., de Souza, A.V., Simões, A.N. and de Moura, F.B. “Polyamine, peroxidase activity and total protein content during storage of bird-of-paradise”. 2015. *Australian Journal of Crop Science*, 9, 313-320.
78. Andreani, N.A., Carraro L., Martino M.E., Fondi M., Fasolato L., Miotto G., Magro M., Vianello F., Cardazzo B., “A genomic and transcriptomic approach to investigate the blue pigment phenotype in *Pseudomonas fluorescens*” , 2015, *International journal of food microbiology*, 213, 88-98.

Original scientific articles

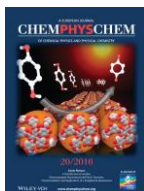
79. Borges L.S., Vieira M.C.S., Vianello F., Lima G.P.P. Antioxidant compounds of organically and conventionally fertilized jambu (*Acmella oleracea*). 2015. *Biological Agriculture & Horticulture*. 32, 149–158.
80. Miotto G., Magro M., Terzo M., Zaccarin M., Da Dalt L., Bonaiuto E., Baratella D., Gabai G., Vianello F. Protein corona as a proteome fingerprint: The example of hidden biomarkers for cow mastitis. 2016. *Colloids and Surfaces B: Biointerfaces*. 140, 40–49.
81. Magro M., Moritz D.E., Bonaiuto E., Baratella D., Terzo M., Jakubec P., Malina O., Čépe K., De Aragao G.M.F., Zboril R. and Vianello Fabio. 2016. Citrinin mycotoxin recognition and removal by naked magnetic nanoparticles. *Food Chemistry*, 203, 505-512.
82. Bonaiuto E., Magro M., Baratella D., Jakubec P., Sconcerle E., Terzo M., Miotto G., Macone A., Agostinelli E., Fasolato S., Venerando R., Salviulo G., Malina O., Zboril R., Vianello F. 2016. Ternary hybrid nano-structure of γ -Fe₂O₃/Cr(VI)/amino oxidase for electrochemical sensing: Application for polyamine detection in tumor tissues. *Chem. Eur J.*, 22, 6846 – 6852.



Cover art

83. Magro M., Fasolato L., Bonaiuto E., Andreani N.A., Baratella D., Corraducci V., Miotto G., Cardazzo B., Vianello Fabio. 2016. Enlightening mineral iron sensing in *Pseudomonas fluorescens* by surface active maghemite nanoparticles: involvement of the OprF porin. *BBA Gen. Subjects*. 1860, 2202–2210.
84. Ferreira M.I., Uliana M.R., Costa S.M., Magro M., Vianello F., Ming L.C., Lima G.P.P. Exclusion of solar UV radiation increases the yield of curcuminoid in *Curcuma longa* L. *Industrial Crops & Products*, 89, 188–194.
85. Magro M. Corain L., Ferro S., Baratella D., Bonaiuto E., Terzo M., Corraducci V., Salmasso L., Vianello F. Alkaline water and longevity: a murine study. 2016. *Evidence-Based Complementary and Alternative Medicine*, 2016, 1-6.
86. Monaco de Almeida K., Costa S.M., Minatel I.O., Correa C.R., Calero F.A., Vianello F., Lima G.P.P., Influence of ozonated water sanitation on postharvest quality of conventionally and organically cultivated mangoes after postharvest storage, 2016, *Postharvest Biology and Technology*, 120, 69–75.
87. Magro M., Domeneghetti S., Baratella D., Jakubec P., Salviulo G., Bonaiuto E., Venier P., Malina O., Tuček J., Ranc V., Zoppellaro G., Zbořil R., Vianello F. Colloidal Surface Active Maghemite Nanoparticles for Biologically Safe Cr^{VI} Remediation: from Core-shell Nanostructures to Pilot Plant Development, 2016, *Chemistry A European Journal*, 22, 14219–14226.

88. Chemello G., Piccinetti C., Randazzo B., Carnevali O., Magro M., Bonaiuto E., Vianello F., Radaelli G., Olivotto I. 2016. Oxytetracycline delivery in adult female zebrafish by iron oxide nanoparticles. *Zebrafish*, 13, 495-503.
89. Magro M., Bonaiuto E., Baratella D., de Almeida Roger J., Jakubec P., Corraducci V., Tuček J., Malina O., Zbořil R., Vianello F. 2016. Electrocatalytic nanostructured ferric tannates: characterization and application of a polyphenol nanosensor. *ChemPhysChem*, 17, 3196–3203.
90. Neri A., Vianello F., Giannantonio R. La tutela giuridica dell'attività inventiva. *Sapere Scienza*. 6 (novembre/dicembre 2016), 34-38. DOI: 10.12919/sapere.2016.06.5.
91. Ferreira M.I., Magro M., C.M. Lin, da Silva M.B., Rodrigues L.F.O.S., do Prado D. Z., Bonaiuto E., Baratella D., De Almeida Roger J., Lima G.P.P., Rossetto M., Zennaro L., Vianello F. 2017. Sustainable production of high purity curcuminoids from *Curcuma longa* by magnetic nanoparticles: A case study in Brazil. *Journal of Cleaner Production*, 154, 233-241.
92. Baratella D., M. Magro, Jakubec P., Bonaiuto E., de Almeida Roger J., Gerotto E., Zoppellaro G., Tuček J., Safarova K.C., Zbořil R., Cecconello A., Willner I., Santagata S., Sambo P., Vianello F. 2017. Electrostatically stabilized hybrids of carbon and maghemite nanoparticles: electrochemical study and application. *PhysChemChemPhys*, 19, 11668-11677.



Cover art

93. Lima G.P.P , Costa S.M., de Almeida Monaco K., Uliana M.R., Fernandez R.M., Correa C.R., Vianello , Cisneros-Zevallos L., Minatel I.O. 2017. Cooking processes increase bioactive compounds in organic and conventional green beans. *International Journal of Food Sciences and Nutrition*. DOI: 10.1080/09637486.2017.1324563.
94. Francisco A.A., Ramos P.R.R., Lima G.P.P., Vianello F., Kanashiro S., Tavares A.R., 2017. Effect of auxin and polyamines on protein contents and peroxidase activity during in vitro culture of taro. *Acta Horticultura*. DOI: 10.17660/ActaHortic.2017.1155.50
95. Magro M., Baratella D., Bonaiuto E., de Almeida Roger J., Vianello F., 2017. New Perspectives on Biomedical Applications of Iron Oxide Nanoparticles. *Current Medicinal Chemistry*. doi: 10.2174/0929867324666170616102922.
96. de Almeida Roger J., Magro M., Spagnolo S., Bonaiuto E., Baratella D., Fasolato L., Vianello F., 2018. Antimicrobial and magnetically removable tannic acid nanocarrier: a processing aid for *Listeria monocytogenes* treatment for food industry applications. *Food Chemistry*, 267, 430–436.

97. Nicoletto C, Vianello F, Sambo P., 2017. Effect of different home-cooking methods on textural and nutritional properties of sweet potato genotypes grown in temperate climate conditions. *Journal of Science of Food and Agriculture*. doi: 10.1002/jsfa.8499.
98. Magro M., Martinello T., Bonaiuto E., Gomiero C., Baratella D., Zoppellaro G., Cozza G., Patruno M., Zboril R., Vianello F. 2017. Covalently bound DNA on naked iron oxide nanoparticles: Intelligent colloidal nano-vector for cell transfection. *BBA Gen Sub*. 1861, 2802-2810. <http://dx.doi.org/10.1016/j.bbagen.2017.07.025>.
99. Magro M., Baratella D., Bonaiuto E., de Almeida Roger J., Vianello F., 2018. New Perspectives on Biomedical Applications of Iron Oxide Nanoparticles. *Current Medicinal Chemistry*, 25, 540-555. DOI: 10.2174/0929867324666170616102922.
- 100) Magro M., Zaccarin M., Miotto G., Da Dalt L., Baratella D, Fariselli P., Gabai G., Vianello F. 2018. Analysis of hard protein corona composition on selective iron oxide nanoparticles by MALDI-TOF mass spectrometry: Identification and amplification of a hidden mastitis biomarker in milk proteome. *Analytical Bioanalytical Chemistry*, 410, 2949-2959. DOI: 10.1007/s00216-018-0976-z.
- 101) Baratella D., Bonaiuto, E., Magro M., de Almeida Roger J., Kanamori Y., G.P.P. Lima, Agostinelli E., Vianello F. 2018. Endogenous and food derived polyamines: determination by electrochemical sensing. *Amino Acids*, 50, 1187–1203. DOI: 10.1007/s00726-018-2617-4.
- 102) Magro M., De Liguoro M., Franzago E., Baratella D., Vianello Fabio. 2018. The surface reactivity of iron oxide nanoparticles as a potential hazard for aquatic environments: A study on *Daphnia magna* adults and embryos. *Scientific Reports*, DOI: [10.1038/s41598-018-31483-6](https://doi.org/10.1038/s41598-018-31483-6).
- 103) Bonaiuto E., Magro M., Fasolato L., Novelli E., Shams S., Piccirillo A., Bakhshi B., Moghadam T.T., Baratella D., Vianello F. 2018. Versatile nano-platform for tailored immuno-magnetic carriers. *Analytical Bioanalytical Chemistry*. 410, 7575-7589. DOI: 10.1007/s00216-018-1382-2.



Cover art

- 104) Campos R.A.S., Seabra S.J., Gonçalves G.G., Neves L.G., de Gusmão S.A.L., Vianello F., Lima G.P.P. 2019. Changes in bioactive compounds in spiny coriander leaves in response to inflorescence pruning at different growth stages. *Scientia Horticulturae*, 245, 250–257.
- 105) Basso C.R., Crulhas B.P., Magro M., Vianello F., Pedrosa V.A. 2019. A new immunoassay of hybrid nanomaterial conjugated to aptamers for the detection of dengue virus. *Talanta*, 197, 482–490. <https://doi.org/10.1016/j.talanta.2019.01.058>.

**Other publications and
Conference proceedings**

- 106) Magro M., Baratella D., Miotto G., Frömmel J., Šebela M., Kopečná M., Agostinelli E., Vianello F. 2019. Enzyme self-assembly on naked iron oxide nanoparticles for aminoaldehyde biosensing. *Amino Acids*, DOI: 10.1007/s00726-019-02704-7.
- 107) Magro M., Baratella D., Bonaiuto E., de Almeida Roger J., Chemello G., Pasquaroli S., Mancini L., Olivotto I., Zoppellaro G., Ugolotti J., Aparicio C., Fifi A.P., Cozza G., Miotto G., Radaelli G., Bertotto D., Zboril R., Vianello F. Stealth iron oxide nanoparticles for organotropic drug targeting. *Biomacromolecules*, DOI: 10.1021/acs.biomac.8b01750.
1. Scarpa, M., Viglino, P., Vianello, F. and Rigo, A.: "Paramagnetic dependence of the relaxation rates of $^{19}\text{F}^-$ in erythrocytes". SIF Conf. Proc. 31, in "Cybernetics and Biophysics Italian Conference " (Frediani C. ed.), pp 33-38, Bologna, 1990.
2. Stevanato, R., Gasparini R., Di Paolo M.L., Vianello, F. and Rigo, A.: "Substrate structure and bovine serum amine oxidase activity." *Italian Journal of Biochemistry*, 1997, **46**, 109-112.
3. Canteri, R., Malacarne, C., Rigo, A., Vianello, F., Zennaro, L., Scarpa, M. and Anderle, M.: "Characterisation of functional films on solid substrate by TOF-FIMS" Proceedings of the 11th Interational conference on Secondary Ion Mass Spectrometry. Orlando, Fl. 7-12 sept. 1997.
4. De Iuliis A, Arslan P and Vianello F. Dopamine metabolism: A focus on Parkinson's disease. 2009, in "Biologically Active Amines and Related Enzymes: Biochemical, Physiological and Clinical Aspects" (A. Toninello Ed.), *Transworld Research Network*, 47-69.
5. Lima G.P.P., da Silva Campos R.A., Willadino L.G., Câmara T.J.R. and Vianello F. "Polyamines, Gelling Agents in Tissue Culture, Micropropagation of Medicinal Plants and Bioreactors", 2012, in "Tissue culture". Intech Pub. Co. <http://dx.doi.org/10.5772/51028>
6. Salviulo G., Magro M., Vianello F. and Zorzi F. European Mineralogical Conference, Vol. 1, EMC2012-124, 2012, Novel maghemite nanoparticles: biotechnologists and mineralogists for a common purpose.
7. Magro M., Baratella D., Cozza G., Miotto G., Frommel J., Sebela M., Zboril R., Vianello F. "Enzyme-iron nanoparticle direct interactions: complex formation and application for a coulometric biosensor for aminoaldehydes. Nanocon 2013, Brno Czech Republic, October 16-18 , 2013.
8. Magro M., Renè Campos, Baratella D., Lima, G.P.P., Zboril R., Vianello F. Magnetically drivable nano-bio-conjugate mimicking free curcumin redox behavior. Nanocon 2013, Brno Czech Republic, October 16-18, 2013.
9. Lima, G.P.P., Pedrosa, V.A., Vianello, F. Nitrate: Occurrence, Characteristics and Health Considerations, 2012, 15-29, A brief comparative evaluation of nitrate in organic vs. conventional

**Other publications and
Conference proceedings**

10. Lima G.P.P., Borges C.V., Vianello F., Cisneros-Zevallos L., Minatel I.O. "Phytochemicals in Organic and Conventional Fruits and Vegetables" in "Fruit and Vegetable Phytochemicals: Chemistry and Human Health", 2 Volumes, 2nd Edition, Yahia E.M. (Editor), ISBN: 978-1-119-15794-6, 2017, Wiley-Blackwell.
11. Rigo, A., Scarpa, M., Vianello, F. and Viglino, P.: "NMR spectra in intact erythrocytes." 19th Meeting of the Federation of European Biochemical Societies. Rome, July 2-7 1989, TH 515.
12. Stevanato, R., Vianello F., Gasparini, R., Di Paolo, M.L. and Rigo, A.: "Role of the electrostatic charges in the oxidation of polyamine by Amine Oxidase". IX Congresso Societa' Italiana di Biofisica Pura e Applicata, Marciana Marina, 1990.
13. Scarpa, M., Viglino, P., Vianello, F., and Rigo, A.: "Relaxation rates of ¹⁹F- in erythrocytes". IX Congresso Societa' Italiana di Biofisica Pura e Applicata, Marciana Marina, 1990.
14. Stevanato, R., Gasparini, R., Vianello, F. and Rigo, A.: "Substrate structure and bovine serum oxidase activity". Riunione congiunta dei gruppi "Poliamine" e "Neurochimica". Societa' Italiana di Biochimica. Rimini, 1996.
15. Rigo, A., Pizzariello, A., Vianello, F. and Scarpa, M.: "Ultra low detection limit for alkaline phosphatase by electrochemical amplification". 4th congress on Biosensors. Bangkok, Thailand, 1996.
16. Corazza, A., Di Paolo, M.L., Rigo, A., Scarpa, M. and Vianello, F.: "Electrostatic interaction at the active site of amine oxidase". XIII Congresso della Societa' Italiana di Biofisica Pura ed Applicata, Padova, 1996.
17. Vianello, F., Zennaro, L., Di Paolo, M.L., Gourova, N. and Rigo, A.: "Effect of temperature, pH and of ionic strength on the activity and nuclear relaxation rates of bovine serum amine oxidase". XIII Congresso della Societa' Italiana di Biofisica Pura ed Applicata, Padova, 1996.
18. Ancona, E., Rigotti, P., Baldan, N., Cadrobbi, R., Sarzo, G., Rigo, A., Scarpa, M., Zennaro, L., Vianello, F. and Corazza, A. "La spettroscopia di risonanza magnetica nucleare nella valutazione pretrapianto degli organi addominali mediante determinazione del ³¹P e del ²H". Sostituzioni funzionali, organi artificiali e trapianti d'organo. Rapporti IRTISAN 1998.
19. Bortoluzzi, S., Di Paolo, M.L., Rigo, A., Vianello, F. and Zennaro, L. "Thin layer of glucose oxidase and hoese radish peroxidase: preparation and characterization". 3° congresso Istituto Nazionale Biostrutture e Biosistemi, 26-28 novembre 1998, Venezia, Italy.
20. Rigo, A., Vianello, F., Clementi, G., Rossetto, M., Scarpa, M., Vrhosek, U. and Mattivi, F. "The peroxy-radical scavenging capacity of some italian red wines". R Europe Winter Meeting, Dinard, France, December 2-5, 1999.

**Other publications and
Conference proceedings**

21. Scarpa, M., Lunelli, L., Corazza, A., Di Paolo, M.L., Marin, O., Rigo, A., Rossetto, M., Vianello, F., Zennaro, L. "Enzyme mimics complexing copper ions" INFM meeting, National conference on the physics of matter, June 12-16, 2000.
22. De Luliis A, Arrigoni G, Andersson L, Arslan P, Burlina A, Vianello F, James P. Oxidative metabolism of dopamine: a color reaction analysed by mass spectrometry. EMBO workshop: *Redox signalling in human disease and ageing*. Università Cattolica "Agostino Gemelli", Roma, 20-23 Aprile 2006.
23. De Luliis A., Arrigoni G., Andersson L., Zambenedetti P., James P., Arslan P., Vianello F. Dopamine peroxidation: a colour reaction analysed by mass spectrometry. International Congress: *Biogenic Amines: Biochemical, Physiological and Clinical Aspects*. Alberè di Tenna (TN), Italy May 14-18, 2008.
24. S. Cardillo, A. De Luliis, V. Battaglia, A. Toninello, R. Stevanato and F. Vianello preliminary results on a novel amine oxidase activity in rat liver mitochondria. International Congress: *Biogenic Amines: Biochemical, Physiological and Clinical Aspects*. Alberè di Tenna (TN), Italy May 14-18, 2008.
25. A. De Luliis, G. Arrigoni, L. Andersson, P. Zambenedetti, A. Burlina, P. James, P. Arslan, F. Vianello. Dopamine peroxidation: A color reaction from human midbrain analysed by mass spectrometry, *Twelfth International Congress of Parkinson's Disease and Movement Disorder*, Hilton Chicago Hotel, Chicago, Usa, 22-26 Giugno 2008.
26. De Luliis A, Arrigoni G., Zambenedetti P., Arslan P. and Vianello F. Dopamine peroxidation: new evidences from human cerebellum. International Congress: *Biogenic Amines: Biochemical, Physiological and Clinical Aspects*. Bertinoro (Forlì-Cesena) Italy. 11-14 May, 2009.
27. S Cardillo, A. De Luliis, V. Battaglia, A. toninello, R. Stevanato and F. Vianello Characterization of a novel copper amine oxidase activity from rat liver mitochondria matrix. International Congress: *Biogenic Amines: Biochemical, Physiological and Clinical Aspects*. Bertinoro (Forlì-Cesena) Italy. 11-14 May, 2009.
28. A. De Luliis, P. Cecchinato, G. Arrigoni, P. Zambenedetti, F. Vianello, P. Arslan. Dopamine peroxidation: new evidences from human cerebellum. *13th Congress of the European Federation of Neurological Societies*, Fortezza da Basso, Firenze, 12-15 Settembre 2009.
29. A. De Luliis, P. Cecchinato, G. Mercanti, G. Arrigoni, P. Giusti, F. Vianello, F. Vianello, P. Arslan. Dopamine peroxidation: a novel study from rat brain areas. *13th Congress of the European Federation of Neurological Societies*, Fortezza da Basso, Firenze, 12-15 Settembre 2009.

**Other publications and
Conference proceedings**

30. De Iuliis A, Cecchinato P, Arrigoni G, Zambenedetti P, Burlina A, Vianello F, Arslan P. Dopamine peroxidation: new evidences from human cerebellum. XIII Congress of the Italian Society for Neuroscience. Milan Marriot Hotel Milano, 2-5 ottobre 2009.
31. A. De Iuliis, P. Cecchinato, G. Arrigoni, P. Zambenedetti, F. Vianello, P. Arslan. Dopamine peroxidation: new evidences from human cerebellum 2° *Evento nazionale Congiunto Sibioc-Simel. La Medicina Personalizzata fra Ricerca e Pratica Clinica. Il Ruolo della Medicina di Laboratorio*. Mostra D'Oltremare, Napoli, 27-30 Ottobre 2009.
32. Salviulo G., Vianello F., Magro M., Russo U., Nodari L., "Synthetic iron oxides nanoparticles for biotechnological applications: a multimethod characterization
33. A. De Iuliis, P. Cecchinato, G. Arrigoni, P. Zambenedetti, F. Vianello, P. Arslan. Dopamine peroxidation in the pathogenesis of Parkinson's disease: new evidences from human cerebellum. *IV Convegno Nazionale Associazione Italiana di Parkinson e Disordini del Movimento DISMOV-SIN & International Symposium Movement Disorder in Psychiatry*, Polo Didattico Zanotto, Verona, 25-27 Marzo 2010. Premio per il miglior poster riservato ai 6 migliori lavori esposti.
34. A. De Iuliis, G. Arrigoni, G. Miotto, F. Vianello, P. Arslan. "Dopamine peroxidation in the pathogenesis of Parkinson's disease: New evidences in human cerebellum. 2010. *Movement Disorders*, 25 (Suppl. 2), S195.
35. Bonaiuto M, Di Paolo M.L., Vianello F, Magro M, Sinigaglia G, Battaglia V, Grancara S, Toninello A, Stevanato R. "A novel semicarbazide sensitive amine oxidase from bovine liver mitochondria matrix: a preliminary study" in Grillo MA, Agostinelli E, Toninello A., Biogenic Amines 2011. Biochemical, physiological and clinical perspectives, Trento, University of Torino, pp. 42-42, Convegno: Biogenic Amines 2011. Biochemical, physiological and clinical perspectives, Alberè di Tenna (Trento), 21-25/9/2011 (*Articolo in Atti di convegno*)
36. Bonaiuto M, Di Paolo M.L., Vianello F, Magro M, Sinigaglia G, Battaglia V, Grancara S, Toninello A, Stevanato R. "A novel semicarbazide sensitive amine oxidase from bovine liver mitochondria matrix: a preliminary study" in Grillo MA, Agostinelli E, Toninello A., Biogenic Amines 2011. Biochemical, physiological and clinical perspectives, Trento, University of Torino, pp. 42-42, Convegno: Biogenic Amines 2011. Biochemical, physiological and clinical perspectives, Alberè di Tenna (Trento), 21-25/9/2011.
37. Sinigaglia G., Magro M., Cardillo S., Miotto G., Agostinelli E., De Iuliis A., Zboril R. and Vianello F.. Catalytically active bovine serum amine oxidase bound to fluorescent and magnetically drivable nanoparticles. Biogenic Amines 2011. Biochemical, physiological and clinical perspectives, Alberè di Tenna (Trento), 21-25/9/2011.

**Other publications and
Conference proceedings**

38. Pianca N., Baratella D., Magro M., Sinigaglia G., Toninello A. and Vianello F. Determination of MAO activity on intact mitochondria by a reagentless hydrogen peroxide amperometric sensor based on maghemite ($\gamma\text{-Fe}_2\text{O}_3$) nanoparticles. . Biogenic Amines 2011. Biochemical, physiological and clinical perspectives, Alberè di Tenna (Trento), 21-25/9/2011.
39. Rossetto M.R.M., Vianello F., Lima G.P.P. "Analysis of total and free polyamines in organic and conventional vegetables by gas and thin layer chromatography". International Congress of Food Science and Technology, August 5 - 9, 2012, Foz do Iguacu, PA, Brazil.
40. Vianello F., Rebouças São José A., Pereira Bonfim M., Lima G.P.P. "QUANTIFICAÇÃO DE ANTIOXIDANTES EM FRUTAS PRODUZIDAS EM PADOVA – ITALIA", 2012. XXII Congresso Brasileiro de Fruticultura, October 22-26, Bento Gonçalves, RS, Brazil.
41. Sinigaglia G., Magro M., Cardillo S., Miotto G., Agostinelli E., De Iulii A., Zboril R. and Vianello F.. Catalytically active bovine serum amine oxidase bound to fluorescent and magnetically drivable nanoparticles. International Congress on Polyamines: Biological and Clinical Perspectives Polyamines, September 2-7, 2012, Istanbul –Turkey.
42. Sinigaglia G., Magro M., Cardillo S., Miotto G., Agostinelli E., De Iulii A. and Vianello F. Magnetic purification of spermine oxidase by avidin coated maghemite nanoparticles. International Congress on Polyamines: Biological and Clinical Perspectives Polyamines, September 2-7, 2012, Istanbul – Turkey.
43. Da Silva Campos R.A., Seabra, S.J., Lima, G.P.P., Ming, L.C., Vianello, F. Chemical characterization of *Eryngium foetidum* L leaves in relation to the pruning of floral stalks and harvest time. VII congreso Iberico de Agroingenieria y Ciancias Hortícolas. August 26-29, 2013.
44. Da Silva Campos R.A., Lima, G.P.P., Seabra, S.J., Ming, L.C., Vianello, F. The effect of shading and nitrogen fertilization on leaf yield and leaf quality of *Eryngium foetidum* L. VII congreso Iberico de Agroingenieria y Ciancias Hortícolas. August 26-29, 2013.
45. Salviulo G., Magro M., Vianello F. and Zorzi F. European Mineralogical Conference, Vol. 1, EMC2012-124, 2012, Novel maghemite nanoparticles: biotechnologists and mineralogists for a common purpose.
46. Magro M., Baratella D., Cozza G., Miotto G., Frommel J., Sebela M., Zboril R., Vianello F. "Enzyme-iron nanoparticle direct interactions: complex formation and application for a coulometric biosensor for aminoaldehydes. Nanocon 2013, Brno Czech Republic, October 16-18 , 2013.
47. Magro M., Renè Campos, Baratella D., Lima, G.P.P., Zboril R., Vianello F. Magnetically drivable nano-bio-conjugate mimicking free curcumin redox behavior. Nanocon 2013, Brno Czech Republic, October 16-18 , 2013.

**Other publications and
Conference proceedings**

48. Magro M., Baratella D., Cozza G., Miotto G., Frommel J., Sebela M., Zboril R., Vianello F.
Coulometric biosensor for aminoaldehydes based on the direct electro-oxidation of NADH on iron oxide nanoparticle modified electrode, Nanotech Italy, November 27-29, 2013 Venice, Italy.
49. Rossetto M.R.M., Vianello F., Lima G.P.P. "Analysis of total and free polyamines in organic and conventional vegetables by gas and thin layer chromatography". International Congress of Food Science and Technology, August 5 - 9, 2012, Foz do Iguacu, PA, Brazil.
50. Salviulo G., Magro M., Vianello F. and Zorzi F. Novel maghemite nanoparticles: biotechnologists and mineralogists for a common purpose. European Mineralogical Conference, Vol. 1, EMC2012-124. Frankfurt, Germany, 2-6 September 2012.
51. Fleuri, L.F.; Silva, J.P.; Delgado C.H.O.; Vianello, F.; Pedrosa V.A.; Lima G.P.P. "Microbiological analysis of cabbage (*Brassica oleracea* var. *Capitata*) submitted to treatments with chlorine and ozone". August 5 - 9, 2012, Foz do Iguacu, PA, Brazil.
52. Magro M., Baratella D., Cozza G., Miotto G., Frommel J., Sebela M., Zboril R. and Vianello F., Enzyme-iron nanoparticle direct interactions: hybrid formation and application for a coulometric biosensor for aminoaldehydes. Biosensors 2014, Melbourne, Australia, 27-30 May, 2014.
53. Magro M., Baratella D., Cozza G., Miotto G., Frommel J., Sebela M., Zoppellaro, G., Zboril R. and Vianello F., Biosensor based on aminoaldehyde dehydrogenase-iron nanoparticle complex for aminoaldehydes determination in spirits. III Workshop on Food Safety, April 9-11, 2014, Florianopolis, SC, Brazil.
54. Magro M., Campos, R.A.S., Baratella D., Holà, K., Lima G.P.P., Zboril R. and Vianello F., Quaternized carbon dots-maghemite nanoparticles for the electrochemical determination of polyphenols from *Eryngium foetidum* extracts. III Workshop on Food Safety, April 9-11, 2014, Florianopolis, SC, Brazil.
55. Gabai G., Magro M., Baratella D., Miotto G., Da Dalt L., Vianello F., Oxidized whey proteins as potential biomarkers of oxidative stress: preliminary studies of milk exposure to the myeloperoxidase product HOCl. First Dairy Care Conference, 2014, August 22-23, Copenhagen, Denmark.
56. Lima Giuseppina Pace Pereira, da Silva Monica Bartira, Rodrigues Luán K O. Sobreiray Ferreiray Maria IzabeLty Simo, Juliana W. Níveis d e poliaminas e m conservas d e *Solonum paniculatunn*; "VIII Congreso Iberoamericano de Tecnología Poscosecha y Agroexportaciones - AITEP2014" Universidad Tecnológica Equinoccial, del 12 al 14 de novembre del 2014.

**Other publications and
Conference proceedings**

57. Costa Sergio Marques; Uliana Maira Rodrigues; Monaco, Kamila, Almeida; Vianello Fabio; Lima Giuseppina Pace Pereira. SANITIZERS EFFECT IN MANGOES BIOACTIVES AMINES CONTENÍ; "VIII Congreso Iberoamericano de Tecnología Poscosecha y Agroexportaciones - AITEP 2014" Universidad Tecnológica Equinoccial, del 12 al 14 de noviembre del 2014.
58. Magro M., Bonaiuto E., Baratella D., Sconcerle E., Terzo M., Jakubec P., Miotto G., Macone A., Agostinelli E., Tucek J., Zboril R. and Vianello F. Bovine serum amine oxidase and chromate modified iron oxide nanoparticles for polyamine biosensing. 14th International Congress On Amino Acids, Peptides And Proteins, Vienna, August 3rd to 8th, 2015.
59. Vianello, F. BE&SMART smart agrifood days, convegno "VENETO AGRIFOOD: TRADIZIONE ED INNOVAZIONE". Applicazione delle nanotecnologie nel settore alimentare. September 3rd, 2015.
60. C.C. Piccinetti*, R. Laurà, G. Radaelli, F. Vianello, F. Maradonna, G. Chemello I. Olivotto, silica coating prevents magnetic nanoparticles toxicity: a morphological and molecular study in zebrafish. Aquaculture Europe 2015, Rotterdam (the Netherlands), October 20-23.
61. J. de Almeida Roger, G. Chemello, S. Pasquaroli, L. Mancini, M. Magro, D. Baratella, E. Bonaiuto, F. Vianello, I. Olivotto. Sequestration of antibiotic by magnetic nanoparticles and potential application for water remediation. Aquaculture Europe 2015, Rotterdam (the Netherlands), October 20-23.
62. Salviulo G., Magro M., Baratella D., Bonaiuto E., Carbone C., Dinelli E. & Vianello F. Removal of Cr(VI) in contaminated water of Stoppani S.p.a. site (Liguria, Italy) by surface active maghemite nanoparticles. Il Pianeta Dinamico: sviluppi e prospettive a 100 anni da Wegener. Congresso congiunto SIMP-AIV-SoGel-SGI, Firenze 2-4 Settembre 2015.
63. Vianello F. Protein corona for proteome fingerprinting. 7th International Conference on "Nanomaterials - Research & Application" Brno, Czech Republic, EU. October 14th - 16th 2015.
64. M. Magro, E. Bonaiuto, D. Baratella, P. Jakubec, E. Sconcerle, M. Terzo, G. Miotto, A. Macone, E. Agostinelli, S. Fasolato, J. Tuček, R. Zboril and F. Vianello. Iron oxide-chromate core-shell nanostructure for the electrochemical biosensing of polyamines in liver cancer tissues. 7th International Conference on "Nanomaterials - Research & Application" Brno, Czech Republic, EU. October 14th - 16th 2015.
65. Vianello F. Bovine serum amine oxidase and chromate modified iron oxide nanoparticles for polyamine biosensing. 14th INTERNATIONAL CONGRESS ON AMINO ACIDS AND PROTEINS. Congress Section: Polyamines. Vienna, August 3-7, 2015.
66. Vianello F. SAMNs per la purificazione industriale ad altissima efficacia di lattoferrina da siero di latte. Aperitivo col Brevetto. Lunedì 6 giugno 2016, Auditorium Orto Botanico, Università di Padova.

**Other publications and
Conference proceedings**

67. Vianello F. "Internacionalização da pesquisa e responsabilidade ambiental", no XXI ENAPI, Encontro Anual de Pesquisa institucional e Iniciação Científica - ENEPE/2016, 19 ottobre 2016, Campus II da Universidade do Oeste Paulista, em Presidente Prudente, SP.
68. Salviulo G., Magro M., Baratella D., Bonaiuto E., Carbone C., Dinelli E., Vianello F. Removal of Cr(VI) in contaminated water of Stoppani S.p.a. site (Liguria, Italy) by surface active maghemite nanoparticles. *Il Pianeta Dinamico: sviluppi e prospettive a 100 anni da Wegener*. Congresso congiunto SIMP-AIV-SoGel-SGI, Firenze 2-4 Settembre 2015.
69. *De Almeida Roger J., Spagnolo S., Fasolato L., Varotto, M., Bonaiuto E., Magro M., Vianello F. Tannic acid coated magnetic nanoparticles as system against foodborne bacteria. 1st Food Chemistry Conference, 30 October – 1 November 2016, Amsterdam, The Netherlands.*
70. Baratella D., Bonaiuto E., Magro M., de Almeida Roger J., Gerotto E., Cecconello A., Zboril R., Jakubec P., Santagata S., Sambo P. and Vianello F. Tailoring binary hybrids of carbon dots and maghemite nanoparticles: an electrochemical study. 8th International Conference on "Nanomaterials - Research & Application" Brno, Czech Republic, EU. October 14th - 16th 2016.
71. Vianello F. Nanotecnologie e proprietà intellettuale, Dipartimento FISPPA, Sezione di Sociologia. Università di Padova. 16 maggio 2016.
72. Vianello F. Probing the interactions between proteins and naked iron oxide nanoparticles. 4th International Conference on Polyamines: Biochemical, Physiological and Clinical perspectives. Tivoli (Rome) Italy. September 4 - 9, 2016.
73. Vianello F. Probing the interactions between biomolecules and naked iron oxide nanoparticles. Nottingham Trent University, June 5, 2017.
74. Monteiro G.C. , Goto R., Minatel I.O., de Sousa da Silva E., da Silva E.G., Vianello F., Lima G.P.P., 2019. Grafting, Agrochemicals, and Oxidative Enzymes as Factor for Plant Biotic Resistance, chapter 2, in *Plant Health Under Biotic Stress*, Vol. 2.

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