



**Europass
Curriculum Vitae**

PROF. FABIO VIANELLO

Personal Informations

Institution	UNIVERSITY OF PADOVA DEPARTMENT OF COMPARATIVE BIOMEDICINE AND FOOD SCIENCE
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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 and of the World Academy of Sciences
- 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 2012 he is the reference person for spin off/start up 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 delegate 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 is the 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.

Reviewing activity

- Fabio Vianello is in the Editorial board of the International Journal of Molecular Medicine
- 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).
- 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

114 scientific articles on international peer reviewed journals.

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

Patents

1. Patent n° IT1997PD00009. 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 EP 2 328 843 B1; 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/IB2016/051605. 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".

Original scientific articles

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.
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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.

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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.
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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.
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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.
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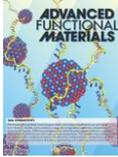
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54. Magro M., Baratella D., Pianca N., Toninello, A., Grancara, S., Zboril R. and Vianello F. Electrochemical determination of hydrogen peroxide production by isolated mitochondria: a novel nanocomposite carbon-maghemite nanoparticle electrode. 2013. *Sensors and Actuators B: Chemical*, 176, 315-322.
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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

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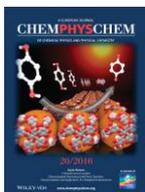
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March, 6, 2020, Padova (Italy)

Fabio Vianello

A handwritten signature in black ink, appearing to read 'F. Vianello', written in a cursive style.