

Patrizia Perego

Curriculum of Scientific Research Work & Teaching Activities

<u>1. General Information</u>	<u>2</u>
1.1 Personal Information	2
1.2 Scientific Productivity Indicators	2
1.3 Academic Degrees	2
1.4 Early Academic Work Experience	2
1.5 Academic Positions	3
1.6 Organisational Appointments including Ministerial & Institutional Commissions	3
<u>2. Organisational Co-ordination & Management Activities</u>	<u>4</u>
2.1 Polytechnic School	4
2.2 Research Groups	4
2.3 Department	5
2.4 Inter-University	5
2.4 Inter-Departmental	5
2.5 University Group of Chemical Engineering (GRICU)	5
2.6 Master's Study Programme	5
2.7 Ph.D.	5
2.8 Exam Board /Selection Committee	7
2.9 Scientific Journals	7
2.10 Invited Conferences	7
2.11 Awards	8
2.12 Scientific Research Committees	8
2.13 Organisation & Co-ordination of Scientific Events	8
<u>3. Teaching Activities</u>	<u>9</u>
3.1 Teaching	9
3.2 Thesis Supervision	11
3.3 Tutoring	12
<u>4. Research Activities</u>	<u>12</u>
4.1 Areas of Research	12
4.2 Establishing a Particular Research Group	15
4.2 .1 International Scientific Collaborations	15
4.3 Research Projects	16
<u>5. Evaluation & Revisory Activities</u>	<u>18</u>
5.1 European Commission	18
5.2 Scientific Articles	19
<u>6. Complete List of Publications</u>	<u>19</u>

1. General Information

1.1 Personal Information

- ◆ Date of Birth: Milan, 12/6/1958
- ◆ Nationality: Italian
- ◆ Home Address: Piazza R. Rossetti 3A/11, Genova Tel. +39 329 2104499
- ◆ Current Position: Full Professor of Chemical Plants Polytechnic School
Deputy Dean of the Polytechnic School
Genova University
- ◆ Work Address: Department of Civil, Chemical & Environmental Engineering (DICCA)
Via Opera Pia, 15, 16145 Genova
- ◆ Telephone: +39 010-3532916
- ◆ Mobile: +39 329-2104499
- ◆ Fax: 010-3532586
- ◆ E-mail: p.perego@unige.it

1.2 Scientific Productivity Indicators

From the Scopus system of Bibliographic Information referencing, H Index is equal to 29, with 3059 citations.

1.3 Academic Degrees

- ◆ **Degree in Science & Food Technology**, November 1982. Milan University.
- ◆ **Ph.D. degree in Materials Engineering**, 1st cycle (1983-1986), at Milan Polytechnic. End of course Oct.1986, Final exam pass 21 July 1987, Ministry of Education, Rome
- ◆ **Post-Doc. Research Grant** 2-year (1st cycle), **in Industrial Engineering**, awarded by MURST, into "Fermentation of cellulosic agro-industrial residues" 1991.

1.4 Early Academic Work Experience

- ◆ 1983-1995: 28 different research assignments awarded by the Institute of Science & Technology of Chemical Engineering for research activity in the field of industrial plants and biotechnological processes. In particular, in the field of industrial alcoholic fermentation from agro-industrial residues.

1.5 Academic Positions

- ◆ 1993-1994 & 1994-1995: **Adjunct Professor** for the course on "Industrial Microbiology in Food Processes", Chemical Engineering, at the Faculty of Engineering of Genova University.

- ◆ 1 Sept 1995 – 31 Dec 2006: **Assistant Professor (Ricercatore Universitario)**, at DICheP, Faculty of Engineering of Genova University, SSD ING-IND/25 – Chemical Plants. Effective from 1 September 1998.
- ◆ 1 Jan 2007 – 31 Oct 2014: Full-time **Associate Professor**, at DICheP (now DICCA), Faculty of Engineering of Genova, SSD ING-IND/25 – Chemical Plants (D.R. N. 2540 dell'8/7/2003, published in the Gazzetta Ufficiale n. 55, IV serie speciale, del 15/7/2003).
- ◆ 1 Nov 2014 – present: Full Professor, at DICCA, Polytechnic School of Genoa University – Chemical Plant (D.R. n. 1280, 20/10/2014, art. 18, comma 1 legge n. 240/2010).
- ◆ 1 Sept 2015 - member of the Groups of Experts of Evaluation (GEV09) at the Italian Agency for the Evaluation of Universities and Research Institutions (ANVUR)
- ◆ 12 Dec 2016 - member of the National Agricultural Academy.

1.6 Organisational Appointments incl. Ministerial & Institutional Commissions

- ◆ 11.5.2001, D.M. n. 449, **appointed by MURST Deputy member of MURST (Ministry of University and Scientific and Technological Research) commission concerning criteria and procedures to assign economic resources of “Investment Funding for Basic R&D Activities (FIRB)”**, art. 4 del D.M. n. 199 dell'8.3.2001 for a 3 year period 2001-2004.
- ◆ 22.10.2001, D.R. n. 245 appointed **member of Genova University Board of Director** for the academic 3 year period 2001-2004.
- ◆ 7.05.2002, D.R. n. 137 appointed **member of the research activity Scientific Observatory of Genova University**, until 31.10.2004.
- ◆ 28.06.2002, D.R. n. 20114 appointed **staff representative of the Board of Directors of the the Regional Authority for School and University Services of Liguria Region (E.R.S.U.)** until 2004.
- ◆ 06.02.2003, D.R. n. 8640 appointed **member of Genova University commission for Internationalisation**.
- ◆ 21.10.2004, D.R. n. 368 appointed **member of the Board of Directors of Genova University** for the 3 year academic period 2004-2007.
- ◆ 20.12.2004, D.R. n. 32534, **Rector delegate for both Internal university offices and the Regional Authority for School and University Services of Liguria Region (E.R.S.U.)**
- ◆ 18.01.2005, D.R. n. 791 appointed **member of the observatory on research activity of Genova University**, from 2004-2007.
- ◆ 12.12.05, con D.R. n. 343 appointed **member of the center for research and teaching services for Genova University** until 31.10.2007.
- ◆ 2008 – **member of University commission for the technical evaluation of Erzelli project** concerning the new headquarters of the Engineering Faculty.
- ◆ 31.03.2011, D.R. n. 2/EM **appointed by the Academic Council member of the university commission for Ph.D. research** from 1.4.2012-31.3.2014.

- ◆ 13.12.2011, con D.R. n. 2406/2011 appointed **member of the Inter-university center for Human Ecology** at Pavia University for the period 2012 – 2014.
- ◆ 19.09.2012, **appointed teaching staff representative of the Polytechnic School Board of Genova University** from 2012-2015.
- ◆ 24.12.2012, D. R. n. 503 appointed **Deputy Dean of the Polytechnic School of Genova University** in the period 2012-2015.
- ◆ 17.6.2013, D.R. n. 381 **appointed, by the Academic Council, member of the university commission for Ph.D. research** from 17.6.2013-17.6.2016.
- ◆ 2014, member of the Steering Committee of Sustainable Engineering & Architecture – **IAS School of Excellence of Genova University (ISSUGE)**.

2. Organisational Co-ordination & Management Activities

2.1 Polytechnic School

- ◆ 2013 – Reference Professor for the Academic co-operation agreement between the University of Genova and the University Polytechnic of Bucharest (Romania) that aims to organise programmes for the development of study courses at various levels, including the Double Degree, to promote research and study development grants at the University and to organise joint activities with exchanges of Professors, students, technical and administrative staff as well as possible future work programmes which will be documented by the specific protocols of reciprocity.
- ◆ 2013 – Member of the Scientific and Technical Committee of the Library of the Polytechnic School.

2.2 Research Groups

- ◆ 1998 – present: Coordinator of a research team at DICCA, University of Genova specialising in Biotechnology and Agro-food technology, and responsible for the laboratory. The research team coordinated is composed of research fellows, graduate students and scholars from different countries (Spain, Brazil, Colombia, Iran, Tunisia) with different academic backgrounds (agro-food and chemical engineers, chemists, bioengineers and biotechnologists). Section 4.2 provides additional evidence regarding the cultural uniqueness and relevance of the research team with respect to the national and international scene.
- ◆ 2013 – Vice President of the inter-departmental **RESEARCH CENTER OF BIOLOGICALLY INSPIRED ENGINEERING IN VASCULAR MEDICINE AND LONGEVITY” (BELONG)** which has as its objective the activity of research in a combined scientific field, engineering and medical, that addresses issues related to the increase in the shelf-life and bioavailability of bioactive molecules through by applying techniques of micro-and nano-encapsulation; development of engineered biomaterials; clinical and biological characterization of the molecular processes underlying the onset of vascular diseases; biological evaluation in vitro models and in vivo of bioactive compounds with a protective action in the context of vascular pathologies; research activities in the field of vascular biology both experimental and clinical.

2.3 Department

- ◆ 2007– 2011: Delegated for the orientation (orientamento) and mentoring of students for the Degree in Chemical Engineering
- ◆ 2012-2015: Member of the Board at DICCA Department

2.4 Inter-University

- ◆ 1995 – 2012: Member of the National Inter-University Consortium "Chemistry for the Environment" (INCA). Since 2008 member of the Board of Directors of INCA as a **delegate of the Rector** of the University of Genova.
- ◆ 1995 – present: Member of the Inter-University Centre for Human Ecology (CIEU) based at Pavia University of Pavia. Since 2011 member of the Scientific and Technical Council CIEU.
- ◆ 2006 – present: Member of the Scientific and Administrative Board of the Center for the Development of Product Sustainability (CE.Si.SP) based at the University of Genova. CE.Si.SP includes, as well as the University of Genova, Turin Polytechnic and the St. Anna High School of Pisa.

2.4 Inter-Departmental

- ◆ 2006 – 2011: Member of the Scientific Council of the Research Centre for Technology, Quality and Safety of Food Products (CTQSA) of the University of Genova.
- ◆ 2013 - : Vice President of the inter-departmental RESEARCH CENTER OF BIOLOGICALLY INSPIRED ENGINEERING IN VASCULAR MEDICINE AND LONGEVITY” (BELONG). It includes the Department of Civil Engineering, Chemistry and Environmental Engineering (DICCA) and the Polytechnic School of Surgical Sciences and Integrated Diagnostics (DISC) of the School of Medical and Pharmaceutical Sciences.

2.5 University Group of Chemical Engineering (GRICU)

- ◆ 2005 – present: Delegate of the Genova branch of GRICU.
- ◆ 2011 – 2013: Coordinator of the National School of Doctorate in Chemical Engineering GRICU for the academic period 2011-2013.

2.6 Master’s Study Programme

- ◆ 2003 – 2009 Member of the Scientific Committee of the University Master's Degree in "Technology in the Control of Food", Faculty of SMFN (University of Genova). Responsible for the coordination of the courses "Technologies and Processes I and II" and member of the Commission for the final exam in 2010
- ◆ 2014 - Member of the Scientific Committee of the University Master's Degree in "Expert in biotechnology food product", Faculty of SMFN (University of Genova). Responsible for the coordination of the courses "Production technology and food preservation"

◆ 2.7 Ph.D.

- ◆ 2001 – Member of the **Board of Examiners** for admission to the Ph.D. in Chemical and Process Engineering (XVII cycle), University of Genova.
- ◆ 2005 - Member of the **International Commission of Examiners** for the final examination of Ph.D. in Food Engineering, University of Vigo, Spain.

- ◆ 2006 - Member of the **International Commission of Examiners** for the final examination of Ph.D. in Food Engineering, University of Vigo, Spain.
- ◆ 2006 - 2013 Member of the **Academic Board** of the Ph.D. in Chemical Engineering, Materials and Process Analysis and member of Ph.D. School in Science and Innovative Technologies for Industrial Engineering, University of Genova.
- ◆ 2007 – Member of the **Board of Examiners** for the final examination of Ph.D. in Food Biotechnology, University Cattolica del Sacro Cuore, Piacenza
- ◆ .2008 – Member of the **Board of Examiners** for the final examination of Ph.D. in Science, Technology and Chemical Processes - Chemical and Process Engineering (XX cycle), University of Genova.
- ◆ 2008 - Member of the **International Commission of Examiners** for the final examination of Ph.D. in Chemical Engineering, University of Granada, Spain.
- ◆ 2009 - Member of the **International Commission of Examiners** for the final examination of Ph.D. in Food Engineering, University of Vigo, Spain.
- ◆ 2010 - Member of the **International Commission of Examiners** for the final examination of Ph.D. (double degree) in Chemical Engineering, Materials and Process - School of Science and Innovative Technologies for Industrial Engineering (XXII cycle), University of São Paulo, Brazil.
- ◆ 2011 - Member of the **International Commission of Examiners** for the final examination of Ph.D. (double degree) in Chemical Engineering, Materials and Process - School of Science and Innovative Technologies for Industrial Engineering (XXIII cycle), University of São Paulo, Brazil.
- ◆ 2012 - Member of the **International Commission of Examiners** for the final examination of Ph.D. (double degree) in Chemical Engineering, Materials and Process - School of Science and Innovative Technologies for Industrial Engineering (XXIV cycle), University of São Paulo, Brazil .
- ◆ 2012 - Member of the **Board of Examiners** for the final examination of Ph.D. in Chemical Engineering, Materials and Process - School of Science and Innovative Technologies for Industrial Engineering (XXIV cycle), University of Genova.
- ◆ 2012 - Member of the **Board of Examiners** for the final examination of Ph.D. in Chemical Engineering (X cycle - new series), University of Padua.
- ◆ 2012 - Member of the **Board of Examiners** for the final examination of Ph.D. in Chemical Engineering (X cycle - new series), University of Salerno.
- ◆ 2013 – present: Member of the **Academic Board** of the Ph.D. in Civil Engineering, Chemistry and Environmental, University of Genova.
- ◆ 2014 – Member of the Board of Examiners for the final examination of Ph.D. in Chemical Engineering of the Environment and the Workplace (XXVI cycle), University of Rome.
- ◆ 2014 – Examiner of Ph.D. Thesis in the area of “Applied Science & Engg.” of the Indian Institute of Technology Roorkee of MR. Chhotu Ram candidate for the award of Ph.D. Degree in “Department of Applied Science & Engg.”. The title of the thesis is “CORROSION POTENTIAL OF SOME INDUSTRIAL EFFLUENTS”.

- ◆ 2015 – Examiner of Ph.D. Thesis of the University of Sydney for the Doctor of Philosophy student Negar Talaie Zanjani at the University of Sydney.

2.8 ExamBoard/Selection Committee

In addition to the participation in commissions for the awarding of research grants and scholarships Patrizia Perego has been a Member of the following Boards of Examiners:

- ◆ 2000: **Member of the Board of Examiners** (OJ No. 16 of 25 February 2000) Comparative Evaluation of the procedure **for the selection of one Assistant professor at the Faculty of Agriculture**, University of the Sacred Heart for the scientific field I15C Chemical Plants, banded by D.R. n. 858 of August 17, 1999, published in the G.U. n. 74 of 17 September 1999.
- ◆ 2001: **Member of the Board of Examiners** of Comparative Assessment Procedure **for the selection of one Assistant professor at the Faculty of Industrial Chemistry**, University of Bologna for the scientific sector ING-IND/25: Chemical Plants, published in the OJ n. 81 of 12/10/2001
- ◆ 2002: **Member of the Board of Examiners** of Comparative Assessment Procedure **for the selection of one Assistant professor at the Faculty of Engineering** of the University of Salerno for the scientific sector ING-IND/25: Chemical Plants published in Ordinary Supplement to Official Gazette (Special Series IV) n. 79 of 4.10.2002
- ◆ 2004: **Member of the Board of Examiners** of Comparative Assessment **Procedure for the selection of one Assistant professor at the Faculty of Engineering** of the University of Salerno for the scientific sector ING-IND/25: Chemical Plants published in Ordinary Supplement to Official Gazette (Special Series IV) n. 21 of 16.03.2004
- ◆ 2005: **Member of the Board of Examiners** of Comparative Assessment **Procedure for the selection of one Assistant professor at the Faculty of Engineering** of the University of Salerno for the scientific sector ING-IND/25: Chemical Plants published in Ordinary Supplement to Official Gazette (Special Series IV) n. 37 of 10.05.2005

2.9 Scientific Journals

- ◆ 1997 – present: Member of the editorial board of the magazine: 'Food Machinery', Ed New Techniques, Milan.
- ◆ 2004 – present: Member of the Editorial Board of the magazine: 'Ciencia y Tecnologia Alimentaria', published by Taylor & Francis, London.
- ◆ 2006 – present: Member of the Editorial Board of the journal "Ciência Tecnologia de Alimentos and" Ed Sociedade Brasileira de Microbiology, Campinas-SP, Brazil

2.10 Invited Conferences

- ◆ University of Vigo - Campus de Ourense - Curso de Extension Universitaria No. 2005524, "Food technology and biotechnology for the exploitation of agro-industrial residues," June 21, 2005

- ◆ Italian Embassy in Berlin - Genoa, Italy - The New Science Cluster Chances for International Cooperation, Berlin 30 November 2005.
- ◆ Einaudi Foundation - OPEF 'Oil from Algae Laboratory', "Use of microalgae in bioenergetic field", Rome, Italy 7 July 2009.
- ◆ University of Sao Paulo (Brazil), Faculty of Pharmaceutical Sciences, Department of Biochemical-Pharmaceutical Technology, "Functional Foods", Sao Paulo, February 4, 2010.
- ◆ University of Padua 2012 "Microalgae to save health, beauty and the environment", Padova, April 2, 2012.
- ◆ 65th ESCVS – International Congress of the European Society for CardioVascular and Endovascular Surgery – “Biodegradable vascular prosthesis: the role of the chemical engineer”, Belgrade, Serbia, 21-24 April, 2016.
- ◆ University of Sydney – Advances in Biotechnology for Food and Medical Applications Workshop – “Green extraction and encapsulation of bioactive compounds for food and biomedical applications” , Sydney (AU), 5-7 October, 2016.

2.11 Awards

- ◆ 1993 Patrizia Perego was Silver Plaque co-winner of the 5th National Prize “Federchimica – for an intelligent future” for the work “Continuous ethanol production from ligno cellulose residues in immobilized cell reactors”, final report of the “Concerted Action on Enzymatic Hydrolysis”, funded by the European Community – CEE (19/04/1993).
- ◆ 2003 awarded by the Brazilian Society for Microbiology (SBM) for scientific merit in the Microbiology Industry.

2.12 Scientific Research Committees

- ◆ 1999 - member of the Committee for Research Development and Innovation of Federchimica.
- ◆ 2006 - Member of the Scientific Committee "EN - Suschem" section Industrial Biotechnology.
- ◆ 2006 - Member of the Scientific Committee "Italian Technology Platform Food for Life".
- ◆ 2006 - Member of the Scientific Committee "Biofuel Italy" section Conversion.
- ◆ 2008 - recorded in the 'ECHA Experts database.

2.13 Organisation & Co-ordination of Scientific Events

- ◆ 1987: Member of the Organizing Committee of the Congress ISER-SIBA "Advanced Technology and Biotechnology for Pollution Prevention and Environmental Protection - State of the Art and Feasibility," Syracuse.
- ◆ 1991: Member of the Organizing Committee of the National Conference CSIA-SIBA "Food, Food Industry, Man and the Environment", Genova 7-8 November 1991.

- ◆ 2008: Chairman of the Conference GR.I.C.U. Chemical Engineering: New Frontiers, Le Castella (KR) 14-17 September 2008.
- ◆ 2010: Chairman of the Conference made in conjunction with the World Food Day (FAO) "Quality of Food Nutrition and Health: nutrition, overweight and obesity in teenagers", Genova, Italy November 19, 2010.
- ◆ 2011: Chairman of the Conference made in conjunction with the World Food Day (FAO) "Quality of Food Nutrition and Health: the third age", Genova, Italy November 11, 2011.
- ◆ 2014: Member of the Scientific Committee "Discussion on Industrial Biotechnology and the Bioeconomy (IFIB 2014) 25 September 26, 2014, Genova.

3. Teaching Activities

3.1 Teaching

3.1.1 *Teaching support*

- ◆ A.Y. 1984-1985 – 1995-96 **teaching support** activities to official courses of Technologies of Biochemical Processes, Industrial Technologies, Chemical Plants and Food Industry Processes, Chemical Bioengineering, Applied Chemistry held by profs. G. Ferraiolo, M. Del Borghi e G. Randi.
- ◆ A.Y. 1993-1994 **member of the examination boards** of the following official courses: Chemical Plants and Food Industry Processes (prof. G. Ferraiolo), Chemical Plants (prof. G. Ferraiolo), Chemical Plants 2 (prof. G. Ferraiolo).
- ◆ A.Y. 1995-1996 – 1997-1998 **teaching support** activities to official courses of Technologies of Biochemical Processes, Industrial Technologies, Chemical Plants and Food Industry Processes, Chemical Bioengineering, Applied Chemistry held by profs. G. Ferraiolo, M. Del Borghi e G. Randi.
- ◆ A.Y. 1995-96, as **Assistant professor** has held seminars and tutorials for the courses: Food Industry Processes, Food Plants, Biotechnology and Environmental Processes.

3.1.2 – *Official Teaching*

A.Y. 1998-1999 – A.Y. 2005-2006

- ◆ **Professor** of the official course of **Food Industry Plants ½ + Food Industry Processes ½** for the Degree in Chemical Engineering, Faculty of Engineering, University of Genova.

A.Y. 2001-2002 – A.Y. 2005-2006

- ◆ **Professor** of the official course of **Food Science and Technology** for the Degree of Prevention Techniques for the Environment and at Workplace, Faculty of Medicine and Surgery, University of Genova.

A.Y. 2006-2007

- ◆ **Professor** of the official course of **Food Industry Plants 1** for the Master of Science in Chemical Engineering, 6 CFU, Faculty of Engineering, University of Genova.
- ◆ **Professor** of the official course of **Chemistry and Technology of Food Processing**, for the Master of Science in Industrial Chemistry, 3 CFU, Faculty of Maths, Physics and Natural Science, University of Genova.
- ◆ **Professor** of the official course of **Food Science and Technology** for the Degree of Prevention Techniques for the Environment and at Workplace, Faculty of Medicine and Surgery, University of Genova.

A.Y. 2007-2008 – A.Y. 2009-2010

- ◆ **Professor** of the official course of **Food Industry Plants 1** for the Master of Science in Chemical Engineering, 5 CFU, Faculty of Engineering, University of Genova.
- ◆ **Professor** of the official course of **Food Industry Processes** for the Degree in Chemical Engineering, 5 CFU, Faculty of Engineering, University of Genova.
- ◆ **Professor** of the official course of **Chemistry and Technology of Food Processing**, for the Master of Science in Industrial Chemistry, 3 CFU, Faculty of Maths, Physics and Natural Science, University of Genova.
- ◆ **Professor** of the official course of **Food Science and Technology** for the Degree of Prevention Techniques for the Environment and at Workplace, Faculty of Medicine and Surgery, University of Genova.

A.Y. 2010-2011

- ◆ **Professor** of the official course of **Processes and Plants for the Food Industry** for the Master of Science in Chemical Engineering, 12 CFU, Faculty of Engineering, University of Genova.
- ◆ **Professor** of the official course of **Chemistry and Technology of Food Processing**, for the Master of Science in Industrial Chemistry, 3 CFU, Faculty of Maths, Physics and Natural Science, University of Genova.
- ◆ **Professor** of the official course of **Food Science and Technology** for the Degree of Prevention Techniques for the Environment and at Workplace, Faculty of Medicine and Surgery, University of Genova.

A.Y. 2011-2012

- ◆ **Professor** of the official course of **Processes and Plants for the Food Industry** for the Master of Science in Chemical Engineering, 12 CFU, Faculty of Engineering, University of Genova.
- ◆ **Professor** of the official course of **Chemistry and Technology of Food Processing**, for the Master of Science in Industrial Chemistry, 3 CFU, Faculty of Math, Physic and Natural Science, University of Genova.

A.Y. 2012-2013

- ◆ **Professor** of the official course of **Processes and Plants for the Food Industry** for the Master of Science in Chemical Engineering, 12 CFU, Faculty of Engineering, University of Genova.
- ◆ **Professor** of the official course of **Chemistry and Technology of Food Processing**, for the Master of Science in Industrial Chemistry, 3 CFU, Faculty of Math, Physic and Natural Science, University of Genova.
- ◆ **Professor** of the official course of **Food Science and Technology** for the Degree of Prevention Techniques for the Environment and at Workplace, Faculty of Medicine and Surgery, University of Genova.

A.Y. 2013-2014

Professor of the official course of for the Master of Science in Chemical Engineering, 12 CFU, Faculty of Engineering, University of Genova.

Patrizia Perego has always been a “Guarantor” Professor (Professore Garante) for the Master of Science in Chemical Engineering.

3.1.3 Teaching at Overseas Universities

Federal University of Pernambuco, UFRPE, Recife-PE and Catholic University of Pernambuco, UNICAP Recife-PE (Brazil), course of “Functional Foods: probiotic, prebiotic and antioxidants”, Recife 9-16 nov. 2010; 24 hour course under the Brazilian Federal Program RENORBIO (Rede Nordestina de Biotecnologia) that groups all the PhD Biotechnology Programmes of the North East of Brazil.

3.2 Thesis Supervision

Degree Thesis

- ◆ Supervisor of more than 50 thesis for the Degree and Master of Science in Chemical Engineering, Industrial Chemistry, Engineering for the Environment and Territory, Biotechnology, Prevention Techniques for the Environment and the Workplace.

Ph.D. Thesis

- ◆ **Supervisor of Ph.D. Thesis in Chemical, Material and Process Engineering:**
- ◆ Danilo De Faveri, “Production and recovery of xylitol by crystallization”, 2004, XVII cycle.
- ◆ Bahar Aliakbarian, “Innovative methods to improve olive oil quality and extraction outputs”, 2009, XXI cycle.
- ◆ Barbara Santamaria, “Production process of soyabean sub-products: analysis and evaluation of the protein component of the persistence or degradability of potentially allergenic molecules”, 2009, XXI cycle.

- ◆ Alessandro Casazza, “Innovative technology for antioxidant extraction from winery wastes”, 2010, XXII cycle.
- ◆ Erika Pistarino, “The production process of the taggiasca olive in brine: varietal characterization by NIR spectroscopy and study of the influence of the operative parameters”, 2011, XXIII cycle.
- ◆ Eugenia Sannita, “Conversion of biomass into hydrocarbon and useful products in the energy industry and food chemistry”, XXVI cycle.
- ◆ Marco Painsi, “Micro and nanoencapsulation technologies of bioactive compounds”, XXVII cycle.
- ◆ Mattia Comotto, “Extraction, purification and application of antioxidant compounds in the development of biomedical prostheses”, XXVIII cycle.
- ◆ Paula Monteiro de Souza, Co-Tutor of Ph.D. thesis in Chemical, Material and Process Engineering (UNIGE) and Biochemical-Pharmaceutical Technology (USP) “Protease production by filamentous fungi isolated from "cerrado" of the center-west of Brazil”, XXVI cycle Stage (2013/14) at UNIGE under the Convention on International Academic Doctoral Thesis Co-release with protection of the Double Degree Ph.D., funded by CAPES, discussion planned for the month of January 2014

3.3 Tutoring

10.05.2009 – 9.05.2010 Tutor of Doctoral Thesis in Agricultural Sciences of Mohammed Lataoui, Institute of Agricultural Chott Mériem, University of Sousse, Tunisia, within the Erasmus Mundus External Cooperation Window Averroes carrying out a research project entitled “Study and optimization of ecophysiological extracts and by-products of *Vitex agnus castus* in several areas”.

1.10.2009 - 14.10.2010, D.R. n. 550 Tutor of dott. Ricardo Pinheiro de Souza Oliveira declared the winner of the competition for the award of the funding of D.R. n. 550 dated 14.10.2009 regarding: “Study of methods for managing the purification of gas from biomass gasification”, at UNIGE; belongs to the Convention on International Academic Doctoral Thesis double degree PhD in Chemical Engineering, Materials and Process (UNIGE) and Biochemical-Pharmaceutical Technology, University of São Paulo (USP), Brazil.

2011 Tutor of the Stage of the International Post-Doc of prof. Suzana Caetano da Silva Lannes from the department of Tecnologia Bioquímico-farmacéutica, Sao Paulo University, Sao Paulo-SP, Brasile, on “Influence of process time of colloidal systems properties for use in chocolate products” funded by Fundação de Amparo à Pesquisa do Estado de **Sao** Paulo, FAPESP, Brasil

6.5.2013 – 14.6.2013 Tutor prof. Ana Bucic dell’Università di Osijek, Croatia within the Erasmus Staff Mobility (01.3 Food Engineering) focusing research activities to be carried out at the Laboratory of Biotechnology and Food Technologies of DICCA on extraction of polyphenols from barley with reactor HIPE.

4.5.2014 – 17.5.2014 Tutor prof. Ana Bucic dell'Università di Osijek, Croatia within the Erasmus Staff Mobility (01.3 Food Engineering) for teaching activities during the official course of “Processes and Plants for the Food Industry” regarding: “Application of power ultrasound in food industry” and “Conventional and emerging extraction technique in food engineering”

4. Research Activities

4.1 Areas of Research

Since her Ph.D. thesis, Patrizia Perego's research activity has been continually focused on Biotechnology and Food Technology, initially in the research group led by prof. Giuseppe Ferraiolo and later by prof. Marco Del Borghi. Starting from 1998, Patrizia Perego has been the coordinator of a research group on “Food Technologies and Biotechnology”. The development of these projects has brought to an interdisciplinary collaboration with the vascular surgical laboratory directed by prof. Domenico Palombo at the School of Medical Sciences & Pharmaceuticals, for the biological validation of antioxidant substances obtained by extraction through unconventional technologies. This collaboration led to the foundation of the BELONG centre and others scientific collaborations with the University of Lorraine in the field of nanoencapsulation applying liposome techniques, and with the Massachusetts Institute of Technology, Harvard MIT Health Sciences & Technology, Cambridge Massachusetts USA, in the production of Bioabsorbable Engineered Biomaterials.

More recently, thanks to the collaboration with the Laboratory of Surfaces Chemistry & Industrial Catalysis, led by prof. Guido Busca, an additional branch of research was undertaken in the Energy sector, with a special interest for the conversion of biomasses into biofuels.

The results of these collaborations can be found in International Scientific Journals and within the contents of International Congresses either published or in press.

The extensive directorship of Scientific Work by Patrizia Perego can be summarized as follows:

Biotechnological Processes & Plants Research

With specific reference to fermentation processes, an intense research-activity was developed regarding the use of conventional reactors on suspended biomass and on immobilised cells, for the continuous production of biofuels from different agroindustrial residues.

One of the areas of research within the biotechnological food sector of DICheP (now DICCA) deals with the influence of macro-kinetic parameters on biological processes in general and fermentation in particular, with the idea of understanding the limiting factors for bioprocesses in bioreactors.

A series of studies were carried out on bioprocesses, i.e. varying temperature, speed of rotation and viscosity, and the single effects were quantified in terms of variations in volumetric productivity. As regards the experimental evaluation of the effect of temperature on productivity, the study permitted the estimation of thermodynamic parameters of different bioprocesses (production of xylitol, clavulanic acid, etc).

In collaboration with the fermentation laboratory of the Department of Biochemical and Pharmaceutical Technology at the University of São Paulo - USP, a new branch of research has been developed regarding the photosynthetic production of microalgae among which are *Spirulina platensis* and *Chlorella vulgaris*. For this purpose, various photo bioreactor configurations have been

tested (open ponds, tubular reactors of different configurations: horizontal, vertical, etc.), using different nitrogen and CO₂ sources.

In this context, it has also been developed a process of removal of CO₂ from combustion flue gases from laboratory scale plant.

Further research in this area has regarded the production of different microalgae (*S. platensis*, *Chlorella* sp. e *Nannochloropsis* sp.) for the production of biodiesel.

Energy Sector Research

In some cases the properties of biomass used in the plants for the gasification and pyrolysis are not adequately known; this makes difficult the interpretation of the chemical phenomena that appear during those processes. Consequently, also the criteria for the optimisation of plants and processes are difficult to establish. The research in this field is connected with the complete study of the properties of biomasses, that can have very different characteristics depending on their origins.

After biomasses characterization, processes of gasification and pyrolysis were tested, evaluating the effects of composition of different biomasses (wood chips, grape pomace, vegetable masses of different nature, plastics and oils) as well as the effects of process variables (temperature, pressure, residence time, presence of different catalysts, effect of moisture, etc.) on the productivity and quality of reaction products.

Technology & Food Processing Plant Research

The scientific activities can be classified in the following sectors:

Technology of Food Preservation

'Mild Technologies' were studied and applied in food preservation processes to minimise the thermal damage in the various phases of the food production process. This study was developed in collaboration with SME in Liguria, focusing on the treatment with MAP (modified atmospheric packaging) of typical Ligurian products such as pesto sauces, walnut sauce, etc.

Optimisation of Industrial Processes

In collaboration with industries such as SAIWA, Agnesi, Novi-Elah-Dufour, Domori Illy Group, studies were performed to optimise the production of biscuits, chocolate and snacks.

Scaling-up the lab and the pilot scale results, an industrial plant has been developed for roasting of cocoa beans, drying of semolina pasta and another for the production of chocolate.

Optimisation of Processes for the Production of Probiotics

In collaboration with the University of São Paulo (Brazil), a study project was done on the effects of different probiotic co-cultures (*Lactobacillus*, *Bifidobacteria*) and the use of different prebiotics (inulin, lactulose, maltodextrine, etc.) to study the kinetics of acidification and post-acidification, the microbiological behaviour during the shelf-life of the product and the rheological properties of fermented milk. It was observed that the quantity of CLA (Conjugated Linoleic Acid) was increased in the presence of milk enriched with maltodextrine and with the *S. thermophilus* and *L. acidophilus* co-cultures. Metabolic studies were carried out with the aim of optimising the best conditions of fermentation to obtain a product with the best texture, functionality and nutritional properties.

Agrofood Biotechnology

Utilization of agroindustrial residues for the biotechnological production of food flavourings and sweetener (xylitol, vanillin, acetoin, ecc.).

Development of Nutraceutical Products & Functional Foods

In recent years, attention has been focused on the extraction of high quality compounds from food residues. In the research team coordinated by Patrizia Perego, different techniques were studied for the extraction of antioxidant compounds from agroindustrial residues through high pressure/temperature, ultrasound, microwave technologies, sub and supercritical fluids. The combination of ultrasound and microwave technologies allow full and fast extraction without degradation of the thermo unstable compounds. Extractions at high pressure and temperature (HPTE) were carried out using an agitated reactor. The use of this instrument was an innovation in this field of work. Operative parameters effects were studied for each extraction method and matrix analysed, including temperature, time, solvent, drying of the extracted matrix effect, etc..

Biological Validation & Micro/Nanoencapsulation of Antioxidant substances

The antioxidants extracted with the technologies described in the above topic were subsequently validated biologically. In particular, research conducted by the BELONG centre involved *in vitro* assays to assess the anti-inflammatory and antiatherogenic activity of the extracts on endothelial cell lines, for possible use as dietary supplements. At the same time, the extracts were used as additives in the formulation of new probiotic products.

To increase the bio availability of the antioxidant compounds, a study of micro and nano encapsulation was carried out on the extracts obtained using different techniques including spray drying, layer by layer, homogenisation at high pressure, nanoliposomes.

Production of Bioresorbable Engineered Biomaterials Research

This new research area is currently developed in collaboration with the Massachusetts Institute of Technology, Harvard MIT Health Sciences & Technology, Cambridge Massachusetts USA for the production of scaffolds with synthetic and natural biodegradable and bioresorbable polymers for possible applications in the vascular field. To reduce the inflammatory effect of these prostheses, the scaffolds are enriched with micro/nanoencapsulated antioxidant compounds.

4.2 Establishing a Specific Research Group

Since Patrizia Perego's nomination as Assistant Professor a small research group was started to continue all the research described above awarding national and international governmental research projects and more recently industrial projects financed by private enterprises that granted the necessary financing for subsistence and growth.

Patrizia Perego has also deepened her relations with national and international scientific communities, as evidenced by her scientific work published in collaboration with researchers from several universities, through: regular attending to conferences, an unwavering commitment to the quality of research, and taking editorial responsibility.

The consistency of the research team has been strengthened over the years in terms of staff (thanks to international collaborations: the Double Degree Ph.D. program with the University of São Paulo, Brazil, the collaboration with University of Sydney, Australia and the Erasmus Mundus program) in financing capabilities and variety of sources.

In 2011 it was also rated one of the research groups of excellence in the Area 09-Industrial Engineering at the University of Genova.

4.2 .1 International Scientific Collaborations

1983 - 1987 - Tennessee Valley Authority, USA, on "Alcoholic fermentation of wood hydrolysates"

1983 - 1987 - Solar Energy Resource Institute, USA, on "Alcoholic fermentation of wood hydrolysates"

1998 - Department of Chemical Engineering, Faculty of Science, University of Vigo, home of Ourense, Spain on "Xylitol production from lignocellulosic hydrolysates."

1999 - Grupo de processos Fermentativos, Departamento de Biotecnologia, Faculdade de Engenharia Química de Lorraine (FAENQUIL), Lorena, SP, Brazil, on "Acid hydrolysis of lignocellulosic materials for the production of substrates for fermentation."

1999 - Departamento de Tecnologia Bioquímico-Farmacêutica University of São Paulo (USP), São Paulo, Brazil, on "Thermodynamic Study of biological processes."

2000 - Departamento de Tecnologia Bioquímico-Farmacêutica University of São Paulo (USP), São Paulo, Brazil, on "Production of microalgae *Spirulina platensis*."

2008 - University of Sydney, Australia, School of Chemical and Biomolecular Engineering "Biomass to Biofuel: Dilute Acid Hydrolysis of Rice Husk."

2009 - University of Sousse, Tunisia, Laboratory of Chemistry, Higher Institute of Agronomy, "Ecophysiological study and valorisation of by-products and extracts of *Vitex agnus castus* in different areas."

2011 - University of Sydney, Australia, School of Chemical and Biomolecular Engineering "An environmentally-friendly extraction technique to recovery valuable compounds from *Vitis vinifera* wastes."

2013 - University of Osijek (Croatia), Josip Strossmayer University Juray. "Extraction of flavonoids from barley grain using high-pressure/high-temperature reactor."

2013-Massachusetts Institute of Technology, Harvard-MIT Health Sciences & Technology, Cambridge, MA, USA, Khademhosseini Laboratory, "Fabrication of tubular PGS-PCL fortified with t-resveratrol for tissue engineered vascular implantation."

2013 - Université de Lorraine, Nancy (France), Laboratoire d'Ingénierie des Biomolécules, "Nanovectorization of natural antioxidant compounds".

2014 - University of Sydney, Australia, School of Chemical and Biomolecular Engineering "Encapsulation of antioxidants in liposome systems."

2014 - Massachusetts Institute of Technology, Harvard-MIT Health Sciences & Technology, Cambridge, MA, USA, Khademhosseini Laboratory "Development of a drug-laden hydrogel for the management of infected wounds."

4.3 Research Projects

Since 1998, with the confirmation in the role as Assistant professor and further development of the research team in an autonomous form, Patrizia Perego has been the Scientific Coordinator of all the research projects listed below:

4.3.1 Projects financed by Public Funding

Ministerial Funding:

PRIN 2004 - **Head of Unit** "Re-use and environmentally friendly disposal of wastewater of the agrifood industry with recovery and bioconversion of antioxidants"

PRIN 2009 - **Head of Unit:** "Study and optimization of biocatalytic processes aimed at the production of biofuels from biomass residues"

University Funding:

1999 - Contributions to the promotion of training in scientific research of undergraduates and recent graduates. Recipient: Cristina Guarnieri

2006 - Funding for research projects of the University: the project allocated to activities or tasks of research of young researchers entitled "New technologies for the industrial valorization of nutraceuticals from agrifood residues"

2007 and 2008 - Funding for research projects: participation of young researchers with the title: "Production of biodiesel from microalgae biomass grown on carbon dioxide emissions"

2011 - Funding of internationalization of the University: with participation of young researchers entitled "Formulation of probiotic products with added antioxidants extracted from waste wine"

2012 - Funding for projects of the University: "Biorefinery of wine and olive oil industry residues for energy purposes"

Regional Funding:

2014 - 2015 European Fund for regional Development (FESR) and European Social Fund (FSE): Nutralp VDA project (Nutraceuticals in Aosta Valley)

Research Grants financed & co-financed

Patrizia Perego was Scientific Responsible of the following research grants:

2007 - Research Program no. 10 - SSD: ING-IND/25 CHEMICAL PLANTS

2009 - Research Program no. 52 - SSD: ING-IND/25 CHEMICAL PLANTS

2011 - Research Program no. 40 - SSD: ING-IND/27 INDUSTRIAL CHEMISTRY AND TECHNOLOGY

2011 - Research Program no. 46 - SSD: ING-IND/25 CHEMICAL PLANTS

2012 - Research Program no. 47 - SSD: ING-IND/25 CHEMICAL PLANTS

2012 - Research Program no. 44 - SSD: ING-IND/25 CHEMICAL PLANTS acting GR n. 975 of 3/8/2012 as a result of the selection process and admission to the funding of training projects for which public notice approved by dGR n. 1283 21/10/2011

4.3.2 Projects financed by Industry

- ◆ A. & A. Fratelli Parodi 2002 - "Research on thebiotechnologica production of flavorings and antioxidants "
- ◆ ERG 2007 - "Technologies for the production of biofuels: the biodiesel"
- ◆ Chemtex Italian LTD 2007 - "Study of fermentation processes for the production of bioethanol from different biomasses"
- ◆ Chemtex Italian LTD 2008 - "Study of hydrolysis processes of biomass using a stirred Parr reactor"
- ◆ IDRABEL Italian LTD 2010 - "Treatment of oil sludge plants tanks"
- ◆ SIEMENS S.p.A. 2011 - "Analysis and evaluation of food and beverage process industry"

- ◆ IDRABEL Italian LTD 2012 - "Experimental study for the reduction of VOC from crude oil"
- ◆ SIEMENS S.p.A. 2012 - "Transferring the results of F & B Process Industry analysis into SIMATIC IT Equipment / Facets concept"
- ◆ COOP Italy 2012 - "Use of innovative methods to improve antioxidant compounds in olive oil"
- ◆ Society of Appolonia S.p.A. 2013 - "Identification of the most significant fields of research and technological development for the sector of the processing industry, renewable energy and biobased industry in general"
- ◆ Farm Castellari 2013 - "Valorization of olive leaves"
- ◆ Domori srl Illy Group 2014 - "Experimental study of food powders atomization to increase their solubility in water"
- ◆ Federlegno 2017 – “MOCA – Carachterization of wood materials in contact with food”

5. Evaluation & Revisory Activities

5.1 European Commission

2006 – component of the list of experts of the European Commission for the area: 1.1– Life sciences – agro-foods

5.2 – Ministry

Patrizia Perego is on the register of auditors for the Ministry of Education

5.3 Research Projects

Evaluation activities of research projects in the proposal stage, ongoing and ex-post, as detailed below:

2008 Autonomous Province of Trento: "Assessment of the proposed project: Algae: an important energy resource for the future" - Announcement 1/2008 Promotion of applied research projects related to the technological district for Energy and Environment.

2009 Region of Aosta Valley "Assessment of the proposed project: Organization of an experimental system for the management of animal wastes and their conversion into compost" competition for the benefit of regional companies for the realization of innovation projects.

2009 Liguria Region: Regional Operational Program 2007-2013 Axis 1 Innovation and Competitiveness Action 1.2.2 announcement. "Industrial research and experimental development (n evaluator. 3 projects)

2010 Region of Aosta Valley: "Recognition, certification and rapid analysis of a new product based on fungi and bacteria in the rhizosphere" competition for the benefit of regional companies for the realization of innovation projects.

2011 Liguria Region: Regional Operational Program 2007-2013 Axis 1 Innovation and Competitiveness Action 1.2.2 announcement. "Industrial research and experimental development (n evaluator. 23 projects)

2011 Liguria Region: Regional Operational Program 2007-2013 Axis 1 Innovation and Competitiveness Action 1.2.2 announcement. "Industrial research and experimental development services for enterprises in the District Ligure for Marine Technology (DLTM)" (n evaluator. 2 projects)

2012 Region of Aosta Valley: "Trascrittomico approach to the study of the response of some crops using a fertilizer of micro-organisms as an alternative to pesticides" competition for the benefit of regional companies for the realization of innovation projects.

5.2 Scientific Articles

Reviewer of papers submitted to the following journals:

- ◆ Journal of Food Safety;
- ◆ Italian Journal of Food Science;
- ◆ European Food Research and Technology;
- ◆ Journal of Food Engineering;
- ◆ Separation and Purification Technology;
- ◆ Biochemical Engineering Journal;
- ◆ Industrial Crops and Products;
- ◆ European Food Resource and Technology.

6. Complete List of Publications

1 – Scientific Work Published in International Journals

1. A. Converti, P. Perego, A. Lodi, F. Parisi, M. Del Borghi, "A kinetic study of *Saccharomyces* strains: performance at high sugar concentrations", *Biotechnology and Bioengineering* **27**, 1108-1114 (1985), John Wiley & Sons, New York, agosto 1985, doi: 10.1002/bit.260270804
2. A. Converti, P. Perego, M. Del Borghi, F. Parisi, G. Ferraiolo, "Kinetic considerations about the study of alcoholic fermentations of starch hydrolysate", *Biotechnology and Bioengineering* **28**, 711-717 (1986), John Wiley & Sons, New York, maggio 1986, ISSN: 0006-3592, doi: 10.1002/bit.260280510
3. F. Parisi, A. Converti, M. Del Borghi, P. Perego, M. Zilli, G. Ferraiolo, "Continuous alcohol production from starch hydrolysate", *Biotechnology and Bioengineering Symp.* **17**, 379-389 (1986), John Wiley & Sons, New York, 1986
4. A. Converti, M. Zilli, P. Perego, M. Del Borghi, "Inhibiting factors in the continuous production of ethanol from molasses", *Resources, Conservation and Recycling* **1**, 81-95 (1988), Elsevier Science Publishers B.V./Pergamon Press, plc, Amsterdam, giugno 1988

5. A. Converti, P. Perego, M. Del Borghi, G. Ferraiolo, "Pretreatment operations and alcohol fermentation of orange wastes", *Journal of Fermentation and Bioengineering* **68**, 277-281 (1989), Society of Fermentation Technology, Japan, Osaka, aprile 1989
6. M. Del Borghi, A. Converti, P. Perego, G. Ferraiolo, "In-situ regeneration of spongy supports for cell entrapment", *Resources, Conservation and Recycling* **3**, 283-291 (1990), Elsevier Science Publishers B.V./Pergamon Press, plc, Amsterdam, giugno 1990
7. A. Converti, P. Perego, M. Del Borghi, "Optimization study and modelling of an entrapped-cell contactor for alcohol fermentation", *Chemical and Biochemical Engineering Quarterly* **4**, 217-222 (1990), Association of Chemists and Chemical Engineers of Croatia, Zagabria, dicembre 1990
8. P. Perego, A. Converti, E. Palazzi, M. Del Borghi, G. Ferraiolo, "Fermentation of hardwood hemicellulose hydrolysate by *Pachysolen tannophilus*, *Candida shehatae* and *Pichia stipitis*", *Journal of Industrial Microbiology* **6**, 157-164 (1990), Elsevier Science Publishers, Amsterdam, 1990
9. A. Converti, P. Perego, A. Lodi, G. Fiorito, M. Del Borghi, G. Ferraiolo, "In-situ ethanol recovery and substrate recycling during continuous alcohol fermentation", *Bioprocess Engineering* **7**, 3-10 (1991), Springer Verlag, Berlino, settembre 1991
10. P. Perego, A. Converti, M. Zilli, M. Del Borghi, "Acid hemicellulose hydrolysates: Physical treatments and continuous immobilized-cell fermentations", *Bioprocess Engineering* **10**, 35-41 (1994), Springer Verlag, Berlino, gennaio 1994
11. P. Perego, B. Fabiano, D. Bertocchi, A. Scavotti, G. Ferraiolo, "Modelling of canned artichoke pasteurization", *Italian Journal of Food Science* **2**, 169-177 (1995), Chiriotti Ed., Pinerolo 1995
12. P. Perego, B. Fabiano, A. Ferraiolo, C. Solisio, E. Palazzi, "Coffee roasting by medium sized plants: a consistent solution to abate atmospheric emissions with a low olfactory threshold", *Chemical and Biochemical Engineering Quarterly* **9 (1)**, 1-6 (1995), Association of Chemists and Engineers of Croatia, Zagabria, Marzo 1995
13. P. Perego, B. Fabiano, A. Ferraiolo, M. Zilli, E. Palazzi, "Feasibility study on biological abatement of odorous substances from coffee roasting processes" *Chemical and Biochemical Engineering Quarterly* **9 (3)**, 123-131 (1995), Association of Chemists and Engineers of Croatia, Zagabria, Settembre 1995
14. C. Pagella, P. Perego, M. Zilli, "Biotechnological H₂S gas treatment with *Thiobacillus ferrooxidans*", *Chemical Engineering & Technology* **19**, 79-88 (1996), VCH Verlagsgesellschaft, Weinheim, 1996
15. P. Perego, B. Fabiano, A. Ferraiolo, R. Pastorino, "Safety promotion in the food industry, corrosion and transfer of metallic ions to the product" *Chemical and Biochemical Engineering Quarterly*, **11 (2)**, 101-106 (1997), Association of Chemists and Engineers of Croatia, Zagabria, 1997
16. P. Perego, B. Fabiano, R. Pastorino, G. Randi, "Microbiological corrosion in aerobic and anaerobic waste purification plants: safety and efficiency problems", *Bioprocess Engineering*, **17**, 103-109 (1997), Springer Verlag Ed., Berlin, 1997
17. P. Perego, B. Fabiano, G.P. Ponzano, E. Palazzi, "Experimental study of hydrogen kinetics from agroindustrial by-product: optimal conditions for production and fuel cell feeding", *Bioprocess Engineering*, **19 (3)**, 205-211 (1998), Springer Verlag Ed., Berlin, 1998
18. A. Converti, P. Perego, J.M. Domínguez, "Microaerophilic metabolism of *Pachysolen tannophilus* at different pH values", *Biotechnology Letters* **21 (8)**, 719-723 (1999), Kluwer Academic Publishers, Dordrecht (Olanda), agosto 1999
19. A. Converti, P. Perego, J.M. Domínguez, "Xylitol production from hardwood hemicellulose hydrolysates by *Pachysolen tannophilus*, *Debaryomyces hansenii*, and *Candida guilliermondii*", *Applied Biochemistry and Biotechnology* **82**, 141-151 (1999), Humana Press Inc., The Humana Press, Clifton, NJ (U.S.A.), 1999

20. E. Palazzi, B. Fabiano, P. Perego, "Process development of continuous hydrogen production by *Enterobacter aerogenes* in a packed column reactor" *Bioprocess Engineering*, **22**, 205-213 (2000), Springer Verlag Ed., Berlin, 2000
21. B. Fabiano, P. Perego, R. Pastorino, M. Del Borghi, "The extension of the shelf-life of "pesto" sauce by a combination of modified atmosphere packaging and refrigeration", *International Journal of Food Science & Technology*, **35 (3)**, 293-303 (2000), Balckewell Science, Ltd, 2000
22. P. Canepa, F. Cauglia, A. Gilio, P. Perego, "Biotechnological production of 2,3-butanediol from agroindustrial food wastes" *Chemical and Biochemical Engineering Quarterly*, **14 (2)**, 53-56 (2000), Association of Chemists and Engineers of Croatia, Zagabria, 2000
23. P. Perego, A. Converti, A. Del Borghi, P. Canepa, "2,3-Butanediol production by *Enterobacter aerogenes*: selection of the optimal conditions and application to food industry residues", *Bioprocess Engineering*, **23 (6)**, 613-620, Springer Verlag, Berlino, dicembre 2000
24. A. Converti, J.M. Domínguez, P. Perego, S.S. Silva, M. Zilli, "Wood hydrolysis and hydrolysate detoxification for subsequent xylitol production", *Chemical Engineering & Technology*, **23 (11)**, 1013-1020, Wiley-VCH Verlag GmbH, Weinheim, Germania, novembre 2000
25. A. Converti, P. Perego, P. Torre, S.S. Silva, "Mixed inhibitions by methanol, furfural and acetic acid on xylitol production by *Candida guilliermondii*", *Biotechnology Letters*, **22 (23)**, 1861-1865 (2000), Kluwer Academic Publishers, Dordrecht (Olanda), dicembre 2000;
26. A. Converti, P. Perego, J.M. Domínguez, S.S. Silva, "Effect of temperature on the microaerophilic metabolism of *Pachysolen tannophilus*", *Enzyme and Microbial Technology* **28**, 339-345 (2001) Elsevier Science Inc., New York, 2001
27. Converti, P. Torre, E. De Luca, P. Perego, S.S. Silva, S. Sato, "Effetto della temperatura e del PH sulla produzione continua di xilitolo mediante *Candida guilliermondii*", *Farmácia e Química* **34 (3)**, 37-43 (2001), Sociedade de Farmácia e Química de São Paulo, São Paulo, Brasile, settembre-dicembre 2001, ISSN 0003-2441
28. A. Converti, A. Del Borghi, R. Gandolfi, F. Molinari, E. Palazzi, P. Perego, M. Zilli, "Simplified kinetics and thermodynamics of geraniol acetylation by lyophilized cells of *Aspergillus oryzae*", *Enzyme and Microbial Technology* **30**, 216-223 (2002), Elsevier Science Inc., New York, 2002
29. B. Fabiano, P. Perego, "Thermodynamic study and optimization of hydrogen production by *Enterobacter aerogenes*", *International Journal of Hydrogen Energy*, **27**, 149-156 (2002). Pergamon-Elsevier Science Ltd., Oxford, UK.
30. P. Perego, L. Fanara, M. Zilli, M. Del Borghi, "Applications of luminous bacteria on environmental monitoring", *Chemical and Biochemical Engineering Quarterly*, **16 (2)**, 41-46 (2002), Association of Chemists and Engineers of Croatia, Zagabria, 2002
31. A. Converti, P. Perego, A. Sordi, P. Torre, "Effect of starting xylose concentration on the microaerobic metabolism of *Debaryomyces hansenii*. The use of carbon material balances", *Applied Biochemistry and Biotechnology* **101 (1)**, 15-29 (2002), The Humana Press Inc., Totowa, NJ (USA), aprile 2002
32. P. Perego, A. Sordi, D. Grivon, A. Converti, V. Dovì, "Rheological study in the pasta industry by alveographic analysis", *Ciencia y Tecnología Alimentaria* **3 (4)**, 202-206 (2002), Asosación de Licenciados em Ciencia e Tecnoloxía dos Alimentos de Galicia, ALTAGA, Ourense, Spagna, 2002 (ISSN 1135-8122)
33. A. Converti, P. Perego, "Use of carbon and energy balances in the study of the anaerobic metabolism of *Enterobacter aerogenes* at variable starting glucose concentration" *Applied Microbiology and Biotechnology*, **59**, 303-309 (2002), Springer Verlag, Berlino, 2002
34. D. De Faveri, P. Perego, A. Converti, M. Del Borghi, "Xylitol recovery by crystallization from synthetic solutions and fermented hemicelluloses hydrolyzates" *Chemical Engineering Journal* **90 (3)**, 291-298 (2002), Elsevier Science Publishers, Amsterdam, doi: .org/10.1016/S1385-8947

35. E. Palazzi, P. Perego, B. Fabiano, "Mathematical modelling and optimization of hydrogen continuous production in a fixed bed bioreactor", *Chemical Engineering Science*, 57, 3819-3830 (2002) Pergamon-Elsevier Science Ltd., Oxford, UK
36. A. Converti, P. Perego, D. De Faveri, P. Torre, S. Sato, "Efeito da oxigenação e da concentração de substrato sobre as bioproduções de acetoina e diacetil", *SBPN – Scientific Journal* 6, 110-113 (2002), Sociedade Brasileira de Pesquisadores Nikkeis, São Paulo, Brasile (ISSN 1415-6512)
37. A. Converti, P. Perego, M. Del Borghi, "Effect of specific Oxygen uptake rate on *Enterobacter aerogenes* energetics: carbon and reduction degree balances in batch cultivations", *Biotechnology and Bioengineering*, 82 (3), 370-377 (2003) John Wiley & Sons, New York 2003
38. A. Converti, P. Torre, E. De Luca, P. Perego, M. Del Borghi, S.S. da Silva, "Continuous xylitol production from synthetic xylose solutions by *Candida guilliermondii*: influence of pH and temperature", *Chemical Engineering and Technology (Eng. Life Sci.)* 3 (4), 193-198 (2003), Wiley-VCH Verlag GmbH, Weinheim, Germania, aprile 2003
39. B. Rivas, P. Torre, J.M. Dominguez, P. Perego, A. Converti, J.C. Parajo, "Carbon material and bioenergetic balances of xylitol production from corncobs by *Debaryomyces hansenii*", *Biotechnology Progress*, 19, 706-713 (2003) American Chemical Society
40. P. Perego, A. Converti, M. Del Borghi, "Effects of temperature, inoculum size and starch hydrolyzate concentration on butanediol production by *Bacillus licheniformis*", *Bioresource Technology* 89 (2), 125-131 (2003), Elsevier Science Ltd, Exeter, UK, settembre 2003
41. D. De Faveri, P. Torre, F. Molinari, P. Perego, A. Converti "Carbon material balances and bioenergetics of 2,3-butanediol biooxidation by *Acetobacter hansenii*", *Enzyme and Microbial Technology*, 33 (5), 708-719 (2003), Elsevier Science Inc., New York
42. J.C.M. Carvalho, S. Sato, P. Perego, M. Zilli, A. Converti, "Effect of cell maintenance on fed-batch ethanol production from sugarcane blackstrap molasses", *SBPN Scientific Journal* 7, 101-103 (2003), Sociedade Brasileira de Pesquisadores Nikkeis, São Paulo, Brasile (ISSN 1415-6512), settembre 2003
43. A. Converti, D. De Faveri, P. Perego, P. Barghini, M. Ruzzi, L. Sene, "Vanillin production by recombinant strains of *Escherichia coli*", *Brazilian Journal of Microbiology* 34 (supl.1), 108-110 (2003), Sociedade Brasileira de Microbiologia, São Paulo, Brasile
44. D. De Faveri, P. Torre, P. Perego, A. Converti, "Optimization of xylitol recovery by crystallization from synthetic solutions using response surface methodology", *Journal of Food Engineering*, 61, 407-412 (2004), Elsevier Science Publisher, Amsterdam
45. D. De Faveri, P. Torre, P. Perego, A. Converti, "Statistical investigation on the effects of starting xylose concentration and oxygen mass flowrate on xylitol production from rice straw hydrolyzate by response surface methodology", *Journal of Food Engineering*, 65, 383-389 (2004), Elsevier Science Publisher, Amsterdam
46. R.A. Pacheco Chávez, J.C.M. Carvalho, A. Converti, P. Perego, L.C. Tavares, S. Sato, "Production of alpha-amylase and glucoamylase from different starches by a new *Trichoderma* sp. isolate", *Annals of Microbiology* 54 (2), 169-180 (2004), DISTAM, Milano, 2004, ISSN: 1590-4261
47. P. Torre, D. De Faveri, P. Perego, A. Converti, P. Barghini, M. Ruzzi, F. de Paula Faria, "Selection of co-substrate and aeration conditions for vanillin production by *Escherichia coli* JM109/pBB1", *Food Technology and Biotechnology* 42 (3), 193-196 (2004), University of Zagreb, 2004
48. F.C. Sampaio, P. Torre, F.M.L. Passos, P. Perego, F.J.V. Passos, A. Converti, "Xylose metabolism in *Debaryomyces hansenii* UFV-170. Effect of the specific oxygen uptake rate", *Biotechnology Progress* 20 (6), 1641-1650 (2004), American Chemical Society, Washington, 3 dicembre 2004

49. P. Perego, B. Fabiano, M. Cavicchioli, M. Del Borghi, "Cocoa quality and processing. A study by solid-phase microextraction and gas chromatography analysis of methylpyrazines", *Food and Bioproducts Processing* 84 (C4), 291-297 (2004). Trans IChemE, Inst. Chemical Engineers, Rugby, UK
50. P. Torre, D. De Faveri, P. Perego, M. Ruzzi, P. Barghini, R. Gandolfi, A. Converti, "Bioconversion of ferulate into vanillin by *Escherichia coli* strain JM109/pBB1 in an immobilized-cell reactor", *Annals of Microbiology* 54 (4), 517-527 (2004), DISTAM, Milano
51. W. Carvalho, J.C. Santos, L. Canilha, S.S. Silva, P. Perego, A. Converti, "Xylitol production from sugarcane bagasse hydrolysate. Metabolic behaviour of *Candida guilliermondii* cells entrapped in Calcium alginate", *Biochemical Engineering Journal* 25, 25-31 (2005), Elsevier Science Publisher, Amsterdam
52. A. Converti, R. Gandolfi, M. Zilli, F. Molinari, L. Binagli, P. Perego, M. Del Borghi, "Synthesis of ethyl phenylacetate by lyophilized mycelium of *Aspergillus oryzae*", *Applied Microbiology and Biotechnology* 67, 637-640 (2005), Springer Verlag, Berlino, 2005
53. F.C. Sampaio, C.A. Moraes, D. De Faveri, P. Perego, A. Converti, F.M. Lopes Passos, "Influence of temperature and pH on xylitol production from xylose by *Debaryomyces hansenii* UFV-170", *Process Biochemistry* 41, 675-681 (2006), Elsevier, Shannon, Irlanda, marzo 2006
54. F.C. Sampaio, D. De Faveri, H.C. Mantovani, F.M. Lopes Passos, P. Perego, A. Converti, "Use of response surface methodology for optimization of xylitol production by the new yeast strain *Debaryomyces hansenii* UFV-170", *Journal of Food Engineering* 76, 376-386 (2006), Elsevier Science Publisher, Amsterdam, Amsterdam
55. F.C. Sampaio, F.M. Lopes Passos, F.J. Vieira Passos, D. De Faveri, P. Perego, A. Converti, "Xylitol crystallization from culture media fermented by yeasts", *Chemical Engineering and Processing* 45, 1041-1046 (2006), Elsevier Science Publisher, Amsterdam, Amsterdam
56. T.S. Porto, C.S. Porto, M.H.T. Cavalcanti, J.L. Lima Filho, P. Perego, A.L.F. Porto, A. Converti, A. Pessoa, "Kinetic and thermodynamic investigation on ascorbate oxidase activity and stability of a *Cucurbita maxima* extract", *Biotechnology Progress* 22, 1637-1642, American Chemical Society and American Institute of Chemical Engineers, Washington, 14 novembre 2006
57. A. Converti, D. De Faveri, P. Perego, J.M. Dominguez, J.C.M. Carvalho, M.S.A. Palma, M. Del Borghi, "Investigation on the transient conditions of a rotating biological contactor for bioethanol production", *Chemical and Biochemical Engineering Quarterly*, 20 (4), 401-406 (2006), Association of Chemists and Chemical Engineers of Croatia, Zagabria
58. P. Perego, A. Sordi, R. Guastalli, A. Converti, "Effects of changes in ingredient composition on the rheological properties of a biscuit industry dough", *International Journal of Food Science and Technology* 42 (6), 649-657 (2007). Wiley-Blackwell, Hoboken, NJ
59. F.C. Sampaio, P. Torre, F.M.L. Passos, C.A. Moraes, P. Perego, A. Converti, "Influence of inhibitory compounds and minor sugars on xylitol production by *Debaryomyces hansenii*", *Applied Biochemistry and Biotechnology* 136 (2), 165-182 (2007), Humana Press, Totowa, NJ, febbraio 2007, ISSN 0273-2289
60. C.E.N. Sassano, L.A. Gioielli, K.A. Almeida, S. Sato, P. Perego, A. Converti, J.C.M. Carvalho, "Cultivation of *Spirulina platensis* by continuous process using ammonium chloride as nitrogen source", *Biomass and Bioenergy* 31, 593-598 (2007), Pergamon-Elsevier Science, Oxford, Regno Unito, agosto 2007 (ISSN 0961-9534), (doi: 10.1016/j.biombioe.2007.04.001)
61. D. De Faveri, P. Torre, B. Aliakbarian, J.M. Domínguez, P. Perego, A. Converti, "Response surface modeling of vanillin production by *Escherichia coli* JM109pBB1", *Biochemical Engineering Journal* 36 (3), 268-275 (2007), Elsevier Science, Losanna, Svizzera, 1 ottobre 2007, ISSN 1369-703X
62. G. Cravotto, L. Boffa, S. Mantegna, P. Perego, M. Avogadro, P. Cintas, "Improved extraction of vegetable oils under high-intensity ultrasound and/or microwaves", *Ultrasonics Sonochemistry* 15, 898-902 (2008), Elsevier Science Publisher, Amsterdam

63. D. De Faveri, B. Aliakbarian, M. Avogadro, P. Perego, A. Converti, "Improvement of olive oil phenolics content by means of enzyme formulations: effect of different enzyme activities and levels", *Biochemical Engineering Journal* 41 (2), 149-156 (2008), Elsevier Science, Losanna, Svizzera, ISSN 1369-703X
64. B. Aliakbarian, D. De Faveri, A. Converti, P. Perego, "Optimisation of olive oil extraction by means of enzyme processing aids using Response Surface Methodology", *Biochemical Engineering Journal* 42 (1), 34-40 (2008), Elsevier Science, Losanna, Svizzera, ISSN 1369-703X
65. R.P.S. Oliveira, P. Perego, A. Converti, M.N. Oliveira, "Effect of inulin on growth and acidification performance of different probiotic bacteria in co-cultures and mixed culture with *Streptococcus thermophilus*", *Journal of Food Engineering* 91 (1), 133-139 (2009), Elsevier Science Publisher, Amsterdam March 2009, ISSN 0260-8774
66. R.P.S. Oliveira, A.C.R. Florence, R.C. Silva, P. Perego, A. Converti, L.A. Gioielli, M.N. Oliveira, "Effect of different prebiotics on the fermentation kinetics, probiotic survival and fatty acids profiles in nonfat symbiotic fermented milk", *International Journal of Food Microbiology* 128 (3), 467-472 (2009), Elsevier Science, Amsterdam, 15 gennaio 2009 (ISSN 0168-1605), (doi:10.1016/j.ijfoodmicro.2008.10.012)
67. B. Rivas Torres, B. Aliakbarian, P. Torre, P. Perego, J.M. Domínguez, A. Converti, "Vanillin bioproduction from alkaline hydrolyzate of corn cob by *Escherichia coli* JM 109/ pBB1, *Enzyme and Microbial Technology* 44 (3), 154-158 (2009), Elsevier, New York, 5 marzo 2009 (ISSN 0141-0229), (doi: doi:10.1016/j.enzmictec.2008.10.003)
68. M.C. Matsudo, R.P. Bezerra, S. Sato, P. Perego, A. Converti, J.C. Carvalho, "Repeated fed-batch cultivation of *Arthrospira (Spirulina) platensis* using urea as nitrogen source" *Biochemical Engineering Journal* 43 52-57 (2009), Elsevier Science, Losanna, Svizzera, 15 gennaio 2009 (ISSN 1369-703X), (doi: 10.1016/j.bej.2008.08.009)
69. R.P.S. Oliveira, P. Perego, A. Converti, M.Nogueira De Oliveira, "Growth and acidification performance of probiotics in pure culture and co-culture with *Streptococcus thermophilus*: The effect of inulin", *LWT - Food Science and Technology* 42 (5), 1015-1021 (2009), Elsevier, Amsterdam, giugno 2009 (ISSN 0023-6438), (doi: 10.1016/j.lwt.2009.01.002)
70. A. Converti, A.A. Casazza, E.Y. Ortiz, P. Perego, M. Del Borghi, "Effect of temperature and nitrogen concentration on the growth and lipid content of *Nannochloropsis oculata* and *Chlorella vulgaris* for biodiesel production", *Chemical Engineering and Processing: Process Intensification* 48 (6), 1146-1151 (2009), doi: 10.1016/j.enzmictec.2008.10.003
71. R.P.S. Oliveira, P. Perego, A. Converti, M.N. Oliveira, "The effect of inulin as a prebiotic on the production of probiotic-fibre enriched fermented milk", *International Journal of Dairy Technology* 62 (2), 195-203 (2009), Blackwell Publishing, Oxford, Regno Unito, ISSN 1364-727X, doi: 10.1111/j.1471-0307.2009.00471.x
72. B. Aliakbarian, F. Dehghani, P. Perego, "The effect of citric acid on the phenolic contents of olive oil", *Food Chemistry* 116, 617-623 (2009), Elsevier Science Ltd, Exeter, UK
73. D.A. Viana Marques, R.P.S. Oliveira, P. Perego, A. L.F. Porto, A. Pessoa Jr., A. Converti, "Kinetic and thermodynamic investigation on clavulanic acid formation and degradation during glycerol fermentation by *Streptomyces* DAUFPE 3060" *Enzyme and Microbial Technology* 45, 169-173 (2009)
74. L. Fiori, D. De Faveri, A.A. Casazza, P. Perego, "Grape by-products: extraction of polyphenolic compounds using supercritical CO₂ and liquid organic solvent – a preliminary investigation", *CyTA - Journal of Food* 7 (3), 163-171 (2009), Taylor & Francis, UK
75. M. Casale, P. Zunin, M.E. Cosulich, E. Pistarino, P. Perego, S. Lanteri, "Characterisation of table olive cultivar by NIR spectroscopy", *Food Chemistry* 122 (4), 1261-1265 (2010), Elsevier Science Publisher, Amsterdam

76. A. Casazza, B. Aliakbarian, S. Mantegna, G. Cravotto, P. Perego, "Extraction of phenolics from *Vitis vinifera* wastes using non-conventional techniques", *Journal of Food Engineering* 100 (1), 50-55 (2010), Elsevier Science Publisher, Amsterdam
77. A. Casazza, B. Aliakbarian, D. De Faveri, L. Fiori, P. Perego, "Antioxidants from winemaking wastes: a study on extraction parameters using Response Surface Methodology", *Journal of Food Biochemistry* 36 (1), 28-37 (2010), Wiley-Blackwell Ed., Hoboken, NJ
78. A. Converti, B. Aliakbarian, J.M. Domínguez, G. Bustos Vázquez, P. Perego, "Microbial production of biovanillin", *Brazilian Journal of Microbiology* 41 (3), 519-530 (2010), Sociedade Brasileira de Microbiologia, São Paulo, Brasile, doi: 10.1590/S1517-83822010000300001
79. B. Aliakbarian, A.A. Casazza, P. Perego, "Valorisation of olive oil solid waste using high pressure-high temperature reactor", *Food Chemistry* 128, 704-710 (2011), Elsevier Science Publisher, Amsterdam
80. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, "Effect of inulin as a prebiotic to improve growth and counts of a probiotic cocktail in fermented skim milk", *LWT – Food Science and Technology* 44 (2), 520-523 (2011), Elsevier, Amsterdam, marzo 2011 (ISSN 0023-6438) (doi: 10.1016/j.lwt.2010.08.024)
81. R.P.S. Oliveira, A.C.R. Florence, P. Perego, M.N. Oliveira, A. Converti, "Use of lactulose as prebiotic and its influence on the growth, acidification profile and viable counts of different probiotics in fermented skim milk", *International Journal of Food Microbiology* 145 (1), 22-27 (2011), 31 gennaio 2011 (ISSN 0168-1605) (doi: 10.1016/j.ijfoodmicro.2010.11.011)
82. D.A. Viana Marques, A. Pessoa-Jr, J.L. Lima-Filho, A. Converti, P. Perego, A.L.F. Porto, "Extractive fermentation of clavulanic acid by *Streptomyces* DAUFPE 3060 using aqueous two-phase system", *Biotechnology Progress* 27 (1), 95-103 (2011), gennaio-febbraio 2011 (ISSN 8756-7938) (doi: 10.1002/btpr.526)
83. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, "Growth and survival of mixed probiotics in nonfat fermented milk: the effect of inulin", *Chemical Engineering Transactions* 24, 457-462 (2011), ISBN 978-88-95608-15-0 (doi: 10.3303/CET1124077)
84. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, "Effect of inulin as prebiotic and synbiotic interactions between probiotics to improve fermented milk firmness", *Journal of Food Engineering* 107 (1), 36-40 (2011), Elsevier Science Publisher, Amsterdam
85. A.P. Espírito Santo, P. Perego, A. Converti, M.N. Oliveira, "Influence of food matrices on probiotic viability - A review focusing on the fruity bases", *Trends in Food Science & Technology* 22 (7), 377-385 (2011), Elsevier Science London
86. R.P. Bezerra, E.Y. Ortiz Montoya, S. Sato, P. Perego, J.C.M. Carvalho, A. Converti, "Effects of light intensity and dilution rate on the semicontinuous cultivation of *Arthrospira (Spirulina) platensis*. A kinetic Monod-type approach", *Bioresource Technology* 102 (3), 3215-3219 (2011), Elsevier Science Ltd, Exeter, UK
87. A.A. Casazza, B. Aliakbarian, P. Perego, "Recovery of phenolic compounds from grape seeds: effect of extraction time and solid-liquid ratio", *Natural Product Research* 25 (18), 1751-1761 (2011), Taylor & Francis, UK
88. L. Seno Ferreira, M. Santos Rodrigues, J.C. Monteiro de Carvalho, A. Lodi, E. Finocchio, P. Perego, A. Converti, "Adsorption of Ni²⁺, Zn²⁺ and Pb²⁺ onto dry biomass of *Arthrospira (Spirulina) platensis* and *Chlorella vulgaris*. I. Single metal systems", *Chemical Engineering Journal* 173, 326-333 (2011), Elsevier Science Publisher, Amsterdam
89. A.M. Ben Hamissa, M. Seffen, B. Aliakbarian, A.A. Casazza, P. Perego, A. Converti, "Phenolics extraction from *Agave americana* (L.) leaves using high-temperature, high-pressure reactor", *Food and Bioproducts Processing* 90 (1), 17-21 (2012), Institute of Chemical Engineers, Rugby, Regno Unito, gennaio 2012 (ISSN 0960-3085) (doi: 10.1016/j.fbp.2010.11.008)
90. A.P. do Espírito Santo, N.S. Cartolano, T.F. Silva, F.A.S.M. Soares, L.A. Gioielli, P. Perego, A. Converti, M.N. Oliveira, "Fibers from fruit by-products enhance probiotic viability and fatty acid profile and

- increase CLA content in yoghurts”, *International Journal of Food Microbiology* 154, 135-144 (2012), 15 marzo 2012 (ISSN 0168-1605) (doi: 10.1016/j.ijfoodmicro.2011.12.025)
91. R.P.S. Oliveira, B. Rivas Torres P. Perego, M.N. Oliveira, A. Converti, “Co-metabolic models of *Streptococcus thermophilus* in co-culture with *Lactobacillus bulgaricus* or *Lactobacillus acidophilus*”, *Biochemical Engineering Journal* 62, 62-69 (2012), Elsevier Science, Losanna, Svizzera, 15 marzo 2012 (ISSN 1369-703X) (doi: 10.1016/j.bej.2012.01.004)
 92. A.A. Casazza, B. Aliakbarian, E. Sannita, P. Perego, "High-pressure high-temperature extraction of phenolic compounds from grape skins", *International Journal of Food Science and Technology* 47 (2), 399-405 (2012), John Wiley & Sons, Edinburgh, UK
 93. D. Palmieri, B. Aliakbarian, A.A. Casazza, N. Ferrari, G. Spinella, B. Pane, G. Cafueri, P. Perego, D. Palombo, "Effects of polyphenol extract from olive pomace on anoxia-induced endothelial dysfunction", *Microvascular Research* 83, 281-289 (2012), Elsevier Science Publisher, Amsterdam, doi:10.1016/j.mvr.2012.02.010
 94. M. Latoui, B. Aliakbarian, A.A. Casazza, M. Seffen, A. Converti, P. Perego, "Extraction of Phenolic Compounds from *Vitex agnus-castus* L.", *Food and Bioproducts Processing* 90, 748-754 (2012), Elsevier Science Publisher, Amsterdam doi: 10.1016/j.fbp.2012.01.003
 95. B. Aliakbarian, D. Palmieri, A.A. Casazza, D. Palombo, P. Perego, " Antioxidant activity and biological evaluation of olive pomace extract", *Natural Product Research* 26 (24), 2280-2290 (2012), Taylor & Francis, UK.doi: 10.1080/14786419.2012.660692
 96. A.P. do Espirito Santo, P. Perego, A. Converti, M.N. Oliveira, “Influence of milk type and addition of passion fruit peel powder on fermentation kinetics, texture profile and bacterial viability in probiotic yoghurts” *Food Science and Technology* 47(2), 393-399 (2012), Elsevier, Amsterdam, luglio 2012 (ISSN 0023-6438) (doi: 10.1016/j.lwt.2012.01.038)
 97. B. Aliakbarian, A. Fathi, P. Perego, F. Dehghani, “Extraction of antioxidants from winery wastes using subcritical water”, *The Journal of Supercritical Fluids* 65, 18-24 (2012), Elsevier Science Publisher, Amsterdam doi:10.1016/j.supflu.2012.02.022
 98. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, “Growth, organic acids profile and sugar metabolism of *Bifidobacterium lactis* in co-culture with *Streptococcus thermophiles*. The inulin effect”, *Food Research International* 48 (1), 21-27 (2012), Elsevier, Amsterdam, agosto 2012 (ISSN 0963-9969) (doi:10.1016/j.foodres.2012.02.012)
 99. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, “Effect of inulin on the growth and metabolism of a probiotic strain of *Lactobacillus rhamnosus* in co-culture with *Streptococcus thermophilus*”, *Lebensmittel-Wissenschaft + Technologie* 47 (2), 358-363 (2012), ISSN: 0023-6438, doi: 10.1016/j.lwt.2012.01.031
 100. R.P. Bezerra, M.C. Matsudo, S. Sato, P. Perego, A. Converti, J.C.M. Carvalho, “Effects of photobioreactor configuration, nitrogen source and light intensity on the fed-batch cultivation of *Arthrospira (Spirulina) platensis*. Bioenergetic aspects”, *Biomass & Bioenergy* 37, 309-317 (2012), Pergamon-Elsevier Science, Oxford, Regno Unito, febbraio 2012, ISSN 0961-9534, doi:10.1016/j.biombioe.2011.11.007
 101. E. Sannita, B. Aliakbarian, A.A. Casazza, P. Perego, G. Busca, “Medium-temperature conversion of biomass and wastes into liquid products, a review”, *Renewable and Sustainable Energy Reviews* 16 (8), 6455-6475 (2012), Elsevier Science Ltd, Exeter, UK doi:n 10.1016/j.rser.2012.06.017
 102. V.C. Aquino, A. Converti, P. Perego, S.C.S. Lannes, “Leavening bread dough”, *Current Nutrition and Food Science* 8(2), 131-138 (2012), Betham Science Publishers, Sharjah, Emirati Arabi Uniti, 1 maggio 2012, ISSN: 1573-4013, doi: 10.2174/157340112800840835
 103. D. Palmieri, P. Perego, D. Palombo, “Apigenin inhibits the TNF α -induced expression of eNOS and MMP-9 via modulating Akt signalling through oestrogen receptor engagement”, *Molecular and Cellular Biochemistry*, 371 (1), 129-136 (2012), Springer, Netherlands, doi: 10.1007/s11010-012-1429-1

104. A.P. Espírito-Santo, A. Lagazzo, A.L.O.P. Sousa, P. Perego, A. Converti, Maricê N. Oliveira, “Rheology, spontaneous whey separation, microstructure and sensorial characteristics of probiotic yoghurts enriched with passion fruit fiber”, *Food Research International* **50**, 224-231 (2013), Elsevier, Amsterdam, gennaio 2013 (ISSN 0963-9969)(doi: 10.1016/j.foodres.2012.09.012)
105. M. Sessa, A.A. Casazza, P. Perego, R. Tsao, G. Ferrari, F. Donsì, “Exploitation of polyphenolic extracts from grape marc as natural antioxidants by encapsulation in lipid-based nanodelivery systems” *Food and Bioprocess Technology* **6**, 2609–2620 (2013), Springer US, Philadelphia, UK, doi: 10.1007/s11947-012-0911-9
106. R.P.S. Oliveira, A.A. Casazza, B. Aliakbarian, P. Perego, A. Converti, M.N. Oliveira, “Influence of fructooligosaccharides on the fermentation profile and viable counts in a synbiotic low fat milk”, *Brazilian Journal of Microbiology* **44** (2), 431-434 (2013), Sociedade Brasileira de Microbiologia, São Paulo, Brasile doi: 10.1590/S1517-83822013000200014
107. E. Pistarino, B. Aliakbarian, A.A. Casazza, M. Painsi, M.E. Cosulich, P. Perego, “Combined effect of starter culture and temperature on phenolic compounds during fermentation of Taggiasca black olives”, *Food Chemistry* **138**, 2043–2049 (2013), Elsevier Science Ltd, Exeter, UK doi: 10.1016/j.foodchem.2012.11.021
108. T.K. Phung, A.A. Casazza, B. Aliakbarian, E. Finocchio, P. Perego, G. Busca, “Catalytic conversion of ethyl acetate and acetic acid on alumina as models of vegetable oils conversion to biofuels”, *Chemical Engineering Journal* **215**, 838-848 (2013), Elsevier Science Ltd, Exeter, UK doi: 10.1016/j.cej.2012.11.057
109. V. Caratto, B. Aliakbarian, A.A. Casazza, L. Setti, C. Bernini, P. Perego, M. Ferretti, “Inactivation of *Escherichia coli* on anatase and rutile nanoparticles using UV and fluorescent light”, *Materials Research Bulletin* **48** (6), 2095-2101 (2013). Elsevier Science Ltd, Exeter, UK Doi: 10.1016/j.materresbull.2013.02.024
110. D. Frumento, A.P. Espírito Santo, B. Aliakbarian, A.A. Casazza, M. Gallo, A. Converti, P. Perego, “Development of *Lactobacillus acidophilus* fermented milk fortified with *Vitis vinifera* marc flour”, *Food Technology and Biotechnology* **51**(2), 370-375 (2013), Springer, New York, USA, aprile-giugno 2013 (ISSN 1330-9862) (FTB-3267)
111. D. Palmieri, P. Perego, D. Palombo, “Estrogen receptor activation protects against TNF- α -induced endothelial dysfunction”, *Angiology* **65** (1), 17-21 (2014), Sage Publications inc, Thousand Oaks, CA Doi: 10.1177/0003319713477909
112. M. Lataoui, M. Seffen, B. Aliakbarian, A.A. Casazza, A. Converti, P. Perego, “Optimisation of phenolics recovery from *Vitex agnus-castus* Linn. leaves by high-pressure and temperature extraction”, *Natural product research* **28** (1), 67-69 (2014), Taylor & Francis, UK
113. E.Y. Ortiz Montoya, A.A. Casazza, B. Aliakbarian, P. Perego, J.C.M. Carvalho, A. Converti, “Growth and lipid content of *Chlorella vulgaris* cultivated under nitrogen starvation conditions in a tubular photobioreactor continuously fed with CO₂-enriched air”, *Biotechnology Progress*, **30** (4), 916-922 (2014), doi: 10.1002/btpr.1885
114. C.G. Lopresto, F. Petrillo, A.A. Casazza, B. Aliakbarian, P. Perego, V. Calabrò, “A non-conventional method to extract D-limonene from waste lemon peels and comparison with traditional Soxhlet extraction”, *Separation and Purification Technology*, **137**, 13-20 (2014), doi:10.1016/j.seppur.2014.09.015
115. M. Painsi, B. Aliakbarian, A.A. Casazza, P. Perego, C. Ruggiero, L. Pastorino, “Chitosan/dextran multilayer microcapsules for polyphenol co-delivery”, *Materials Science and Engineering C*, **46**, 374-380 (2015), doi:10.1016/j.msec.2014.10.047
116. M. Painsi, B. Aliakbarian, A.A. Casazza, A. Lagazzo, R. Botter, P. Perego “Microencapsulation of phenolic compounds from olive pomace using spray drying: a study of operative parameters”, *LWT - Food Science and Technology*, **62**(1), 177-186 (2014), doi:10.1016/j.lwt.2015.01.022

117. M. Comotto, A.A. Casazza, B. Aliakbarian, V. Caratto, M. Ferretti, P. Perego, "Influence of TiO₂ nanoparticles on growth and phenolic compounds production in photosynthetic microorganisms", *The Scientific World Journal*, 2014, 9 pages (2014), doi:10.1155/2014/961437
118. B. Aliakbarian, M. Casale, M. Paini, A.A. Casazza, S. Lanteri, P. Perego, "Production of a novel fermented milk fortified with natural antioxidants and its analysis by NIR spectroscopy (Fortified fermented milk and its NIR spectroscopy)", *LWT - Food Science and Technology*, 62(1), 376-383 (2015), doi: 10.1016/j.lwt.2014.07.037
119. P.F. Ferrari, D. Palmieri, A.A. Casazza, B. Aliakbarian, P. Perego, D. Palombo, "TNF α -induced endothelial activation is counteracted by polyphenol extract from UV-stressed cyanobacterium *Arthrospira platensis*", *Medicinal Chemistry Research*, 24, 275-282 (2015), doi:10.1007/s00044-014-1126-6.
120. K.S. Duba, A.A. Casazza, H.B. Mohamed, P. Perego, L. Fiori, "Extraction of polyphenols from grape skins and defatted grape seeds using subcritical water: experiments and modeling", *Food and Bioprocess Processing*, 94, 29-38 (2015), doi:10.1016/j.fbp.2015.01.001
121. B. Aliakbarian, A.A. Casazza, P. Perego, "Kinetic and isotherm modeling of phenolic compounds adsorption from olive mill wastewater onto activated carbon", *Food Technology and Biotechnology*, 53(2), 207-214 (2015). doi:10.17113/ftb.53.02.15.3790.
122. A. Bucić-Kojić, A.A. Casazza, I. Strelec, M. Paini, M. Planinić, P. Perego, "Influence of High-Pressure/High-Temperature Extraction on the Recovery of Phenolic Compounds from Barley Grains", *Journal of Food Biochemistry*, 39(6), 696-707 (2015). doi:10.1111/jfbc.12177
123. M. Romero, A. Pizzi, G. Toscano, A.A. Casazza, G. Busca, B. Bosio, E. Arato, "Preliminary experimental study on biofuel production by deoxygenation of *Jatropha*", *Fuel Processing Technology*, 137, 31-37 (2015), doi:10.1016/j.fuproc.2015.04.002
124. T.K. Phung, A.A. Casazza, P. Perego, P. Capranica, G. Busca "Catalytic pyrolysis of vegetable oils to biofuels: Catalyst functionalities and the role of ketonization on the oxygenate paths", *Fuel Processing Technology*, 140 119-124 (2015), doi:10.1016/j.fuproc.2015.08.042
125. A.A. Casazza, P.F. Ferrari, B. Aliakbarian, A. Converti, P. Perego, "Effect of UV radiation on titanium dioxide on polyphenol and lipid contents of *Arthrospira (Spirulina) platensis*", *Algal Research*, 12, 308-315 (2015), doi:10.1016/j.algal.2015.09.012
126. M. Paini, B. Aliakbarian, A.A. Casazza, P. Perego, "Effect of encapsulating agent on physical-chemical characteristics of olive pomace polyphenols-rich extracts", *Chemical Engineering Transactions*, 43, 97-102 (2015), doi:10.3303/CET1543017
127. A.A. Casazza, B. Aliakbarian, M. Mura, M. Chasseur, M. Freguglia, S. Valentini, D. Palombo, P. Perego, "Polyphenols from grape and apple skin: A study on non-conventional extractions and biological activity on endothelial cell cultures", *Chemical Engineering Transactions*, 44 205-210 (2015), doi:10.3303/CET1544035
128. M. Kuzmanović, M. Tišma, A. Bucić-Kojić, A.A. Casazza, M. Paini, B. Aliakbarian, P. Perego, "High-pressure and temperature extraction of phenolic compounds from corn silage", *Chemical Engineering Transactions*, 43 133-138 (2015), doi:10.3303/CET1543023
129. F. Coelho Sampaio, T.L. da Conceição Saraiva, G.D. de Lima e Silva, J.T. de Faria, C. Grijó Pitanguí, B. Aliakbarian, P. Perego, A. Converti, "Batch growth of *Kluyveromyces lactis* cells from deproteinized whey: Response surface methodology versus Artificial neural network—Genetic algorithm approach", *Biochemical Engineering Journal*, 109, 305-311 (2015), doi:10.1016/j.bej.2016.01.026
130. M. Paini, S.R. Daly, B. Aliakbarian, A. Fathi, E. Arab Tehrani, P. Perego, F. Dehghani, P. Valtchev, "An efficient liposome based method for antioxidants encapsulation", *Journal Colloids and Surfaces B: Biointerfaces*, 136, 1067-1072 (2015), doi:10.1016/j.colsurfb.2015.10.038

131. P. Monteiro Souza, B. Aliakbarian, E. X. Ferreira Filho, P. Oliveira Magalhães, A. Pessoa Junior, A. Converti, P. Perego, "Kinetic and thermodynamic studies of a novel acid protease from *Aspergillus foetidus*", *Journal International journal of biological macromolecules*, 81, 17-21 (2015), doi:10.1016/j.ijbiomac.2015.07.043
132. M. Planinić, B. Aliakbarian, P. Perego, K. Greganić, S. Tomas, A. Bucić-Kojić, "Influence of Temperature and Drying Time on Extraction Yield of Phenolic Compounds from Grape Pomace Variety "Portogizac"", *Chemical and Biochemical Engineering Quarterly*, 29(3), 343-350 (2015), doi:10.15255/CABEQ.2015.2278
133. M. Mura, D. Palmieri, D. Garella, A. Di Stilo, P. Perego, G. Cravotto, D. Palombo, "Simultaneous ultrasound-assisted water extraction and β -cyclodextrin encapsulation of polyphenols from *Mangifera indica* stem bark in counteracting TNF α -induced endothelial dysfunction", *Journal Natural product research*, 29(17), 1657-1663 (2015), doi:10.1080/14786419.2014.996753
134. M. Painsi, A.A. Casazza, B. Aliakbarian, P. Perego, A. Binello, G. Cravotto, "Influence of ethanol/water ratio in ultrasound and high-pressure/high-temperature phenolic compound extraction from agri-food waste", *International Journal of Food Science & Technology*, 51(2) 349-358 (2016), doi:10.1111/ijfs.12956.
135. M. Fernandes da Silva, A.A. Casazza, P.F. Ferrari, S. Al Arni, A.A. Converti, "New bioenergetic and thermodynamic approach to batch photoautotrophic growth of *Arthrospira (Spirulina) platensis* in different photobioreactors and under different light conditions", *Bioresource Technology*, 207, 220-228 (2016), doi:10.1016/j.biortech.2016.01.128
136. Casazza A., Aliakbarian B., Lagazzo A., Garbarino G., Carnasciali M.M., Perego P., Busca G., "Pyrolysis of grape marc before and after the recovery of polyphenol fraction", *Fuel Proc. Technol.*, 153, 121-128 (2016)
137. Aliakbarian B., Bagnasco L., Perego P., Leardi R., Casale M., "UV-VIS spectroscopy for monitoring yogurt stability during storage time", *Analytical Methods*, 8, 5962-5969 (2016).
138. Aliakbarian B., Painsi M., Adami R., Perego P., Reverchon E., "Use of Supercritical Assisted Atomization to produce nanoparticles from olive pomace extract", *Innovative Food Science and Emerging Technologies*, In press (2016).
139. Casazza A.A., Ferrari P.F., Aliakbarian B., Comotto M., Perego P., "Microalgae growth using winery wastewater for energetic and environmental purposes", *Chemical Engineering Transaction*, 49, 565-570 (2016).
140. Vergani L., Vecchione G., Baldini F., Voci A., Ferrari P.F., Aliakbarian B., Casazza A.A., Perego P., "Antioxidant and hepatoprotective potentials of phenolic compounds from olive pomace", *Chemical Engineering Transaction*, 49, 475-480 (2016).
141. Enrico A., Aliakbarian B., Lagazzo A., Donazzi A., Botter R., Perego P., Costamagna, P. "Parameter Optimization for the Electrospinning of $\text{La}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ Fibers for IT-SOFC Electrodes", *Fuel Cell*, in Press (2017).
142. Aliakbarian B., Painsi M., Adami R., Perego P., Reverchon E. "Use of Supercritical Assisted Atomization to produce nanoparticles from olive pomace extract", *Innovative Food Science and Emerging Technologies*, 40, 2-9 (2017).

Chapter Contributions (book/essay chapter)

1. F. Parisi, M. Del Borghi, A. Converti, P. Perego, G. Ferraiolo, "High ethanol concentrations obtained by increasing cell concentration in Rotating Disc Bioreactors", in Verlag Chemie. *Proc. 3rd European Congress on Biotechnology* (2), 461-467 (1984), Weinheim: Verlag Chemie, ISBN: 3527262822
2. P. Perego, A. Converti, M. Zilli, F. Parisi, "Cellulose hydrolysate conversion to ethanol in Rotating Biological contactor", in O.M. Neijssen, R.R. van der Meer, K.Ch.A.M. Luyben, *Proc. 4th European Congress on Biotechnology* (1) 29-33 (1987), Amsterdam: Elsevier, ISBN: 0444428275

3. M. Del Borghi, A. Converti, P. Perego, M. Zilli, "Continuous alcohol production from hardwood lignocelluloses hydrolysates in immobilized cell reactors", in J. Coombs, G. Grassi, *CEC Workshop on Cellulose Hydrolysis and Fermentation* (1) 196-213 (1992), Newbury: CPL press, ISBN: 1872691609
4. P. Perego, B. Fabiano, "Microbial, Corrosion", in M.C. Flickinger, S.W. Drew, *Encyclopedia of Bioprocess Technology: Fermentation, Biocatalysis and Bioseparation*, 717-729 (1999), John Wiley & Sons eds, New York 1999, ISBN: 9780471138228
5. D. De Faveri, M. Lambri, A. Converti, P. Perego, M. Del Borghi, "Xylitol recovery from synthetic solutions and fermented emicellulose hydrolyzates", in A. Chianese, *Chemical Engineering Transactions* (1) 1311-1316 (2002), Milano: AIDIC Servizi S.r.l., ISBN: 8890077506
6. A. Converti, P. Perego, L. Binaghi, A. Lodi, P. Torre, V. Villanova, D. Soletto, "Carbon dioxide removal for the photoautotrophic cultivation of the microalga *Arthrospira (Spirulina) platensis*", in SGE. *Generazione di Energia e Conservazione dell'Ambiente* (3) 1791-1798 (2004), Padova: SGE Editoriali, ISBN: 8886281935
7. D. De Faveri, C. Guarino, P. Torre, P. Perego, F. Molinari, A. Converti, "Bioesterification of phenylacetic and 2-phenylpropionic acids by means of lyophilized mycelia", in GRICU. *Nuove Frontiere di Applicazione delle metodologie dell'Ingegneria Chimica* (1) 401-404 (2004), Napoli: CUES, ISBN: 8887030804
8. D. De Faveri, F.C. Sampaio, P. Torre, P. Perego, F.M. Lopes Passos, A. Converti, M.N. Oliveira, M. Del Borghi, "Xylitol production: a biotechnological process", in S. Pierucci, *Chemical Engineering Transactions* (6) 977-982 (2005), Milano: AIDIC Servizi S.r.l., ISBN: 8890077573
9. D. De Faveri, P. Perego, R. Di Felice, "Produzione di bioetanolo", in *Biocarburanti e biocombustibili – Soluzioni, tecnologie, agevolazioni* (edited by A. Bordin) 177-185 (2007), IPSOA editore, Milano, Italy
10. D. De Faveri, P. Torre, B. Aliakbarian, J.M. Dominguez, P. Perego, G. Bustos, A. Converti, "Conversione microbiana de ácido ferulico a vainillina", in G. Bustos Vasquez, G. Velazquez De La Cruz, E. Rangel Torres, E. Compean Ramirez, J.R. Campos Leal, *Aprovechamiento biotecnologico de produco agropecuarios* (2) 181-203 (2008), Città del Messico: Plaza y Valdés, S.A. de C.V., ISBN: 9789707227682
11. R.P.S. Oliveira, P. Perego, A. Converti, M.N. Oliveira, "Effect of inulin supplementation of milk to prepare fermented biomilks" in G. Marino, E. Bardone, A. Viglia, *Chemical Engineering Transactions* (14) 185-191 (2008), Milano: AIDIC Servizi S.r.l., ISBN: 97888955608020
12. B. Aliakbarian, D. De Faveri, A.A. Casazza, R.P.S. Oliveira, M.N. Oliveira, A. Converti, P. Perego, "Bio-extraction of olive oil: improvement of quality and extraction outputs", in G. Marino, E. Bardone, A. Viglia, *Chemical Engineering Transactions* (14) 351-358 (2008), Milano: AIDIC Servizi S.r.l., ISBN: 97888955608020
13. B. Rivas Torres, P. Torre, P. Perego, J.M. Dominguez, A. Converti, "Ferulic acid to vanillin bioconversion of corn cob hydrolyzate by *Escherichia coli* JM109/pBB1", in M. Theophanides, T. Theophanides, *Environmental Engineering and management* (1) 181-193 (2009), Atene: Atiner, ISBN: 9789606672583
14. R.P.S. Oliveira, B. Aliakbarian, A.A. Casazza, P. Perego, A. Converti, M.N. Oliveira, "Effect of different prebiotics on the fermentation kinetics and prebiotic survival in nonfat symbiotic fermented milk", in UFRN. *Anais do XVII° Simpósio Nacional de Bioprocessos 2009*, 1-6 (2009), Natal-RN: Universidade Federal do Rio Grande do Norte, ISBN: 9788598130026
15. P. Perego, B. Fabiano, "Microbiological induced corrosion and inhibition", in M.C. Flickinger, *Encyclopedia of Industrial Biotechnology: Bioprocess, bioseparation and Cell Technology*, 1-21 (2010), New York: John Wiley & Sons, Inc., ISBN: 9780471799306, doi: 10.1002/9780470054581.eib431
16. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, "Growth and survival of mixed probiotics in nonfat fermented milk: the effect of inulin". In: Sauro Pierucci, *Chemical Engineering Transactions* (24), 457-462 (2011), ISBN: 9788895608150, doi: 10.3303/CET1124077

17. B. Aliakbarian, P. Perego, "Innovative co-adjuvants to improve olive oil extraction outputs", in: D. Corrigan James, *Olive Oil and Health: Nutrition and Diet*, 111-140 (2011), ISBN: 978-1-61728-653-7
18. A. Converti, P. Perego, J.M. Domínguez González, J.T. de Faria, F.C. Sampaio, "Bioenergetic aspects of xylitol production from lignocellulosic materials", in: S.S. Silva, A.K. Chandel (Eds.), *D-Xylitol: Fermentative Production, Application and Commercialization*, (2012), ISBN 978-3642318863, Springer-Verlag, New York
19. B. Aliakbarian, D. De Faveri, P. Perego, A. Converti, "An assessment on xylitol recovery methods", in: S.S. Silva, A.K. Chandel (Eds.), *D-Xylitol: Fermentative Production, Application and Commercialization*, (2012), ISBN 978-3642318863, Springer-Verlag, New York
20. R.P.S. Oliveira, P. Perego, M.N. Oliveira, A. Converti, "Prebiotic effect of inulin on the growth and organic acid profile of *Bifidobacterium lactis* in co-culture with *Streptococcus thermophilus*", in E. Bardone, A. Brucato, T. Keshavarz, *Chemical Engineering Transactions* (27), 1-6 (2012), Milano: AIDIC Servizi S.r.l., ISBN 978-889-560-818-1

2 – Scientific Work Published in National Journals

1. G. Aliprandi, A. Melpignano, P. Perego, F. Savioli, "Miglioramento della plasticità dell'argilla con liquidi biologici", *La Ceramica* 6, 32-35 (1986), Anno XXXIX, Casa Editrice Palazzo Vecchio, Firenze, 1986
2. G. Aliprandi, M. Giordani, P. Perego, "Influenza del pH sulla tissotropia degli impasti ceramici refrattari", *La Ceramica* 6, 14-18 (1986), Anno XXXIX, Casa Editrice Palazzo Vecchio, Firenze, 1986
3. P. Perego, C. Angione, R. Manara, "Biomateriali in medicina: a che punto siamo?" *AES* 4, 14-19 (1988), Anno X
4. G. Aliprandi, P. Perego, M. Rovatti, "Macinazione di polveri di beta allumina e misura del loro potenziale zeta", *Ceramurgia* 5, 165-168 (1990), Anno XX, Techna, Faenza, 1990
5. P. Perego, G.M. Ferraiolo, B. Fabiano, A. Ferraiolo, "I biosensori elettrochimici. Applicazioni industriali e ambientali" *Rich Mach Magazine* 2, 65-71 (1993), Anno IV
6. G. Spigno, P. Perego, D.M. De Faveri, "Stabilità termica dell'acido ascorbico e dell'eritorbato di sodio", *Industrie Alimentari*, 538-545 (1999), Anno XXXVIII, maggio 1999
7. V. Caratto, V. Livoti, E. Pezzati, B. Aliakbarian, P. Perego, M. Ferretti "Studio dell'attività foto catalitica di nano particelle di TiO₂ su batteri Gram negativi", *La Chimica e l'Industria*, 118-121 (2011), ISSN: 0009-4315

3 – Scientific Work Published for International Congresses/ Conferences

1. F. Parisi, M. Del Borghi, A. Converti, P. Perego, G. Ferraiolo, "High ethanol concentrations obtained by increasing cell concentration in Rotating Disc Bioreactors", *Proc. 3rd European Congress on Biotechnology* Vol. II, 461-467 (1984), , Verlag Chemie, Weinheim, **Monaco di Baviera (Germany)**, 10-14 September 1984
2. M. Zilli, A. Converti, P. Perego, "Thermal utilization of urban solid waste and biological sludges. State of art in Italy", *Proc. Conference on Thermal Waste Utilization. Processings, Machines, Equipments*, in *Energetyka*, 109-120, Dzial Wydawnictw Politechniki Slaskiej, **Gliwice (Poland)**, 1987, Kozubnik (Poland), 20-23 May 1987
3. P. Perego, A. Converti, M. Zilli, F. Parisi, "Cellulose hydrolysate conversion to ethanol in Rotating Biological Contactor", *Proc. 4th European Congress on Biotechnology* Vol. 1, 29-33 (1987), Elsevier Science Publishers B.V., Amsterdam, 1987, **Amsterdam (Netherlands)**, 14-19 June 1987
4. P. Perego, M. Zilli, A. Converti, M. Del Borghi, "Studio delle condizioni processo-biologiche ottimali nel trattamento fermentativo dei residui della lavorazione del legno", *Proc. 2nd International Conference on Environment Protection*, Vol. II, Sect. 3.A, 79-87 (1988), CUEN, Napoli, settembre 1988, **S. Angelo d'Ischia (Italy)**, 5-7 October 1988

5. A. Converti, M. Zilli, P. Perego, G. Ferraiolo, "Produzione di bioetanolo dai residui della lavorazione delle arance", *Proc. 2nd International Conference on Environment Protection*, **Vol. II, Sect. 3.B**, 19-26 (1988), CUEN, Napoli, settembre 1988, **S. Angelo d'Ischia (Italy)**, 5-7 October 1988
6. E. Palazzi, P. Perego, M. Del Borghi, G. Ferraiolo, "Problemi di impatto ambientale nelle attività biotecnologiche", *Proc. 2nd International Conference on Environment Protection*, **Vol. I, Sect. 2.A**, 1-11 (1988), CUEN, Napoli, settembre 1988, **S. Angelo d'Ischia (Italy)**, 5-7 October 1988
7. A. Campidonico, P. Perego, E. Palazzi, "Metodologie e tecnologie avanzate di decontaminazione e protezione del suolo", *Proc. 2nd International Conference on Environment Protection*, **Vol. I, Sez. 2.A**, 17-26 (1988), CUEN, Napoli, settembre 1988, **S. Angelo d'Ischia (Italy)**, 5-7 October 1988
8. M. Rovatti, A. Peloso, G. Ferraiolo, A. Lodi, P. Perego, "Utilizzo del concentrato dai processi depurativi delle acque di vegetazione delle olive", *Proc. 2nd International Conference on Environment Protection*, **Vol. II, Sez. 4.3**, 1-7 (1988), CUEN, Napoli, settembre 1988, **S. Angelo d'Ischia (Italy)**, 5-7 October 1988
9. G. Aliprandi, P. Colombo, A. Melpignano, G. Moriconi, P. Perego, "Establishment of zeta potential in clays as an alternative indication for viscosity and plasticity", *Proc. "Conference on silicate industry and silicate science"*, 567-576 (1989), Siliconf, Budapest, 1989, **Budapest (Hungary)**, 12-16 June 1989
10. P. Perego, E. Palazzi, C. Zonato, R. Manara, M. Del Borghi, "Critical examination of gaseous emissions from coffee roasting abatement techniques" *Proc. 8th World Clean Air Congress* **Vol. IV**, 271-275 (1989), **L'Aia (Netherlands)**, 11-15 September 1989
11. A. Converti, P. Perego, M. Del Borghi, G. Ferraiolo, "Continuous production and evaporative recovery of ethanol produced through an entrapped-cell reactor", *Proc. 5th European Congress on Biotechnology*, Abstract Book, p. 262 (1990), TUP47, Biocatalysis Poster Session, Munksgaard International Publisher, Copenhagen, 1990, **Copenhagen (Denmark)**, 8-13 July 1990
12. M. Del Borghi, A. Converti, P. Perego, M.T. Clasadonte, G. Ferraiolo, "Fly ash utilization for environmental purposes", *Proc. 9th World Clean Air Congress*, in *Waste Management*, **Vol. 1**, IU-6B.04, Air and Waste Management Association, Pittsburgh 1992, **Montreal (Canada)**, 30th August – 4th September 1992
13. C. Pagella, P. Perego, A. Lodi, M. Del Borghi, "Aluminium recovery from sludges by bioleaching with *Thiobacillus*", *Proc. 9th World Clean Air Congress*, in *Waste Management*, **Vol. 1**, IU-6A.05, Air and Waste Management Association, Pittsburgh 1992, **Montreal (Canada)**, 30th August – 4th September 1992;
14. G. Sarantakos, P. Perego, A. Ferraiolo, A. Iurilli, "Microencapsulation of enzymes for maximum growth and stimulation of nitrogen fixing bacteria in the soil", *Proc. 6th European Congress on Biotechnology*, Abstract Book, **Vol. II**, TU254, Section Immobilized cells and enzymes, CNR-RAISA, Roma, 1993, **Firenze (Italy)**, 13-17 May 1993
15. C. Pagella, P. Perego, M. Zilli, M. Del Borghi, "Bioconversion of hydrogen sulphide gas to sulphur with *Thiobacillus ferrooxidans*", *Proc. 6th European Congress on Biotechnology*, Abstract Book, **Vol. III**, WE204, Section Gaseous effluents treatment using biotechnologic approaches, CNR-RAISA, Roma, 1993, **Firenze (Italy)**, 13-17 May 1993
16. P. Perego, G.M. Ferraiolo, B. Fabiano, A. Ferraiolo, "Analytical use of biosensors in the determination of biochemical oxygen demand", *Proc. 6th European Congress on Biotechnology*, Abstract Book, **Vol. III**, WE121, Section Biosensor Design, CNR-RAISA, Roma 1993, **Firenze (Italy)**, 13-17 May 1993
17. G.P. Ponzano, P. Perego, E. Palazzi, M. Del Borghi, G. Ferraiolo, "Biological fuel cell using *Escherichia coli* and *Enterobacter aerogenes*", *Proc. 6th European Congress on Biotechnology*, Abstract Book, **Vol. III**, WE091, Section Biotechnological Production of Energetic Sources, CNR-RAISA, Roma, 1993, **Firenze (Italy)** 13-17 May 1993
18. M. Zilli, P. Perego, M. Del Borghi and G. Ferraiolo, "Environmental protection of food industry" *Proc. 1st Conference on Chemical and Process Engineering*, 829-833, AIDIC, Milano 1993, **Firenze (Italy)**, 13-15 May 1993

19. A. Ferraiolo, B. Fabiano, R. Pastorino, P. Perego, C. Solisio, L. Tognotti, "Applications économiques liées aux restrictions des limites aux émissions atmosphériques de poussières", *Proc. Colloque: "Science et Technologie des Poudres"*, **Lyon (France)** 22-24 November 1994
20. G.P. Ponzano, P. Perego, E. Palazzi, "Biomass hydrogen production to be used in phosphoric acid fuel cell", *Proc 10th World Clean Air Congress Growing Challenges – From Local to Global*, **Vol. I**, 92 (1995), **Helsinki (Finland)**, 28th May – 2nd June 1995
21. R. Pastorino, B. Fabiano, P. Perego, D. Bertocchi, A. Ferraiolo, "Methods of hazard identification and risk assessment in the food industry" *Proc. 8th Int. Symp. On Loss Prevention & Safety Promotion in the Process Industries*, **Vol. II**, 671-682 (1995), Elsevier, Amsterdam 1995, **Antwerp (Belgium)**, 6-9 June 1995
22. B. Fabiano, D. Bertocchi, P. Perego, A. Ferraiolo, R. Pastorino, "Water in the food industry: supplying, treating and disposing of waste water" *Proc. Second International Symposium on Wastewater Reclamation and Reuse*, **Vol. II**, 813-822 (1995), Ed. Angelakis, Asano, Diamadopoulos, Tchobanoglous, 1995, **Iraklio (Greece)**, 17-20 October 1995
23. P. Perego, B. Fabiano, D. Bertocchi, R. Pastorino, "Safety promotion in the food industry processes" *Proc. 9th World Congress of Food Science and Technology*, **Budapest (Hungary)**, 30th July - 4th August 1995
24. P. Perego, B. Fabiano, D. Bertocchi, I. De Cecco, A. Ferraiolo, "Stability improvement of italian vegetable sauce microbiological, chemical-physical and technological aspects" *Proc. 9th World Congress of Food Science and Technology*, **Budapest (Hungary)**, 30th July - 4th August 1995
25. B. Fabiano, P. Perego, R. Pastorino, "Optimization of vegetable sauce pasteurization processing" *Proc. 5th World Congress of Chemical Engineering – Technologies Critical to a Changing World*, **Vol. II**, 63-68 (1996), AIChE ed. 1996, **San Diego (USA)**, 14-18 July 1996
26. P. Perego, B. Fabiano, D. Bertocchi, G.P. Ponzano, E. Palazzi, "Hydrogen and butanediol production by *Enterobacter aerogenes* under microaerobic conditions" *Proc. First European Congress on Chemical Engineering*, **Vol. 4**, 2578-2590 (1997), EFCE-AIDIC ed. 1997, **Firenze (Italy)**, 4-7 May 1997
27. R. Pastorino, B. Fabiano, P. Perego, M. Del Borghi, "Safety to the consumer of food products: risk assessment in the food industry. Storage time and failure modelling" *Proc. 9th Int. Symp. On Loss Prevention & Safety Promotion in the Process Industries*, **Vol. I**, 55-64 (1998), EFCE ed. 1998, **Barcelona (Spain)**, 4-7 May 1998
28. B. Fabiano, C. Solisio, P. Perego, A. Cuspilici, "Atmospheric dispersion experimental modelling by water tank", *Proc. 11th World Clean Air and Environment Congress*, **Vol. IV**, 10D-5, IUAPPA-NACA ed. 1998, **Durban (South Africa)**, 14-18 September 1998
29. P. Perego, B. Fabiano, R. Pastorino, A. Cuspilici, "Integrated pollution and energy recovery from agro-industrial wastes", *Proc. 11th World Clean Air and Environment Congress*, **Vol. I**, 2D-4, IUAPPA-NACA ed. 1998, **Durban (South Africa)**, 14-18 September 1998
30. A. Del Borghi, C. Solisio, P. Perego, A. Macchiavello, G. Genon, "Identification of emission sources by trace metal concentration. Cement industry as case study", *Proc. Air Pollution 99 Congress*, 435-443 (1999), **San Francisco (USA)**, 27-29 July 1999
31. A. Converti, P. Perego, J.M. Domínguez, "Effect of pH on xylose bioconversion into xylitol using the yeast *Pachysolen tannophilus*: carbon material balance", *Proc. of the 6th Brazilian Symposium on the Chemistry of Lignins and Other Wood Components*, 92 (1999), **Guaratinguetá, São Paulo (Brasil)**, 25-28 October 1999
32. P. Canepa, F. Cauglia, A. Gilio, P. Perego, "Biotechnological production of the fine-chemicals from industrial food-wastes", *Proc. R'200, Recovery, Recycling, Re-integration, 5th World Congress and trade Show*, **Toronto (Canada)**, 5-9 June 2000
33. M. Del Borghi, P. Perego, A. Del Borghi, "Environmental impact of biological waste treatment plants", *Proc TE BIO 1st Int. Exhibition and Congress on Biotechnology*, 25-35 (2000), **Genova (Italy)** 24-26 May 2000

34. J.M. Domínguez, A. Converti, P. Perego, "Detoxification of hemicellulose acid-hydrolyzates for xylitol production by *Pachysolen tannophilus*", *Proc. of the 13th Brazilian Congress of Chemical Engineering*, Memoria n. 55, **Agua de São Pedro, São Paulo (Brasil)**, 24-27 September 2000
35. A. Converti, P. Perego, A. Sordi, P. Torre, "2,3-Butanediol bioproduction from glucose by *Enterobacter aerogenes* and *Bacillus licheniformis*", *10th European Congress on Biotechnology*, Abstract Book, 191 (2001), ENG-196, **Madrid (Spain)**, 8-11 July 2001
36. A. Converti, P. Perego, A. Sordi, P. Torre, "Biological xylitol production from synthetic and hemicellulose hydrolyzate by *Debaryomyces hansenii*", *10th European Congress on Biotechnology*, Abstract Book, 192 (2001), ENG-197, **Madrid (Spain)**, 8-11 July 2001
37. A. Sordi, P. Torre, P. Perego, A. Converti, L. Sene, J.M. Domínguez, "Optimization of fermentative xylitol production from agro-industrial residues", *Proc. 12th World Clean Air and Environment Congress*, **Sect. 6A-6B**, 1-6 (2001), **Seoul (South Korea)**, 26-31 August 2001
38. P. Torre, A. Converti, P. Perego, D. De Faveri, B. Rivas, "Preliminary study on bio-production of acetoin and diacetyl from synthetic media containing 2,3-butanediol as carbon source", *Simposio IX "ALIMENTOS II", Congreso Nacional de Biotecnología BIOTEC'2002*, Abstract Book, 151, **Siviglia (Spain)**, 2-5 July 2002
39. D. De Faveri, M. Lambri, A. Converti, P. Perego, M. Del Borghi, "Xylitol recovery from synthetic solutions and fermented hemicellulose hydrolyzates", *15th International Symposium on Industrial Crystallization Vol. 3*, 1311-1316 (2002), **Sorrento (Italy)**, 15-18 September 2002
40. P. Torre, D. De Faveri, P. Perego, M. Ruzzi, A. Converti, "Influence of oxygen transfer rate on vanillin production from synthetic solutions of ferulic acid by a recombinant strain of *Escherichia coli*", *11th European Congress on Biotechnology Abstracts*, 223 (2003), P. 711, **Basel (Switzerland)**, 24-29 August 2003
41. D. De Faveri, P. Torre, P. Perego, F. Molinari, A. Converti, "Statistical optimization of cell immobilization for vanillin production", *11th European Congress on Biotechnology Abstracts*, 223-224 (2003), P. 713, **Basel (Switzerland)**, 24-29 August 2003
42. J.C.M. Carvalho, S. Sato, P. Perego, M. Zilli, A. Converti, "Effect of cell maintenance on fed-batch ethanol production from sugarcane blackstrap molasses", *SBPN Scientific Journal* 7, 101-103 (2003), Sociedade Brasileira de Pesquisadores Nikkeis, São Paulo-SP (Brasil), ISSN 1415-6512, **Campo Grande-MS (Brasil)**, 03-05 September 2003
43. P. Torre, D. De Faveri, P. Perego, A. Converti, "Simultaneous influence of the specific oxygen transfer rate and the initial substrate concentration on xylitol production from rice-straw by *Debaryomyces hansenii*", *11th European Congress on Biotechnology Abstracts*, 225, P. 720, **Basel (Switzerland)**, 24-29 August 2003
44. D. De Faveri, G. Spigno, P. Torre, A. Converti, P. Perego, "Xylitol crystallization from synthetic solutions: the combined effects of xylitol supersaturation level and cooling temperature", *ECCE-4, 4th European Congress in Chemical Engineering*, P-8.5-014, **Granada (Spain)**, 21-25 September 2003
45. P. Torre, D. De Faveri, P. Perego, A. Converti, F.P. Faria, "Selection of co-substrate and aeration conditions for vanillin production by *Escherichia coli* JM109(pBB1)", *Anais do XXII Congresso Brasileiro de Microbiologia 2003, Sec. Microbiologia de Alimentos*, 171 (2003), MAL 272, **Florianópolis-SC (Brasil)**, 17-20 November 2003
46. A. Converti, D. De Faveri, P. Perego, P. Barghini, M. Ruzzi, L. Sene, "Vanillin production by recombinant strains of *Escherichia coli*", *Anais do XXII Congresso Brasileiro de Microbiologia 2003, Sec. Microbiologia Industrial*, 185 (2003), MIN 130, **Florianópolis-SC (Brasil)**, 17-20 November 2003
47. D. De Faveri, P. Torre, P. Perego, A. Converti, T. Pizzorno, F.C. Sampaio, S. Sato, "Vanillin production by *Escherichia coli* JM109/pBB1 using different co-substrates and agitation conditions", *SBPN Scientific Journal, Anais do XII Encontro Nacional da SBPN*, **Vol. 8**, Ed. Especial, EN 47, Sociedade Brasileira de

Pesquisadores Nikkeis, São Paulo-SP (Brasil), **Campinas-SP (Brasil)**, 03-05 September 2004, ISSN 1415-6512

48. P. Torre, D. De Faveri, P. Perego, A. Converti, A. Pessoa Jr., M. Del Borghi, S. Sato, "Synthesis and hydrolysis of ethyl esters of phenylacetic and phenylpropionic acids", *SBPN Scientific Journal, Anais do XII Encontro Nacional da SBPN*, **Vol. 8**, Ed. Especial, EN 44, Sociedade Brasileira de Pesquisadores Nikkeis, São Paulo-SP (Brasil), **Campinas-SP (Brasil)**, 03-05 September 2004, ISSN 1415-6512
49. A. Converti, M. Zilli, P. Perego, S.S. Silva, J.C.M. Carvalho, A. Pessoa Jr., S. Sato, "Start-up dynamics of an immobilized-cell system for alcohol fermentation", *SBPN Scientific Journal, Anais do XII Encontro Nacional da SBPN*, **Vol. 8**, Ed. Especial, EN 46, Sociedade Brasileira de Pesquisadores Nikkeis, São Paulo-SP (Brasil), **Campinas-SP (Brasil)**, 03-05 September 2004 (ISSN 1415-6512)
50. F. Sampaio, P. Torre, D. De Faveri, B. Rivas, P. Perego, F.M. Lopes Passos, J.M. Domínguez, A. Converti, "Modelling of *Debaryomyces hansenii* UFV-170 metabolism in a xylose-to-xylitol bioconversion", *12th European Congress on Biotechnology Abstracts*, S149 (2005), FB16, **Copenhagen (Denmark)**, 21-24 August 2005
51. P. Torre, D. De Faveri, B. Rivas, P. Perego, J.M. Domínguez, A. Converti, "Vanillin production by resting cells of *Escherichia coli* JM109/pBB1 from synthetic ferulic acid solutions: Effect of initial substrate and biomass concentration", *12th European Congress on Biotechnology Abstracts*, S180 (2005), EB52, **Copenhagen (Denmark)**, 21-24 August 2005
52. F.C. Sampaio, P. Torre, D. De Faveri, F.M.L. Passos, H.C. Mantovani, C.A. Moraes, F.J.V. Passos, P. Perego, A. Converti, "The influence of inhibitory substances and hemicellulosic sugars on xylitol production by *Debaryomyces hansenii* UFV-170", *XXIII^o Congresso Brasileiro de Microbiologia*, Volume Programmi e Sommari, Sommario n. 1056-1, Sessão di Microbiologia Industriale-Processi Tecnologici/Biogenesi, Sociedade Brasileira de Microbiologia, São Paulo (Brasil), **Santos-SP (Brasil)**, 22-25 November 2005
53. P. Torre, D. De Faveri, B. Rivas, R. Yáñez, P. Perego, B. Fabiano, A. Converti, "Analysis and quantification of methylpyrazines formed during cocoa beans roasting process", *10th Mediterranean Congress of Chemical Engineering*, T07-031, **Barcelona (Spain)**, 15-18 November 2005
54. D. De Faveri, P. Torre, B. Aliakbarian, P. Perego, J.M. Domínguez, B. Rivas Torres, "Effect of different enzyme formulations on the improvement of phenolic compound content in olive oil", *IUFOST 13th World Congress of Food Science & Technology*, 000849, 927-928, **Nantes (France)**, 17-21 September 2006
55. D. De Faveri, P. Perego, G. Spigno, M.-C. Sighel, L. Fiori, L. Tramelli, "Supercritical fluid extraction of antioxidant compounds from grape seeds and skins", *IUFOST 13th World Congress of Food Science & Technology*, 001258, 595-596, **Nantes (France)**, 17-21 September 2006
56. B. Aliakbarian, D. De Faveri, A. Casazza, P. Perego, A. Converti, "Response surface modelling of olive oil extraction by means of enzyme processing aid", *1^o Congresso Integrado do Conhecimento, Vida, Sociedade e Futuro*, Faculdades Integradas Teresa D'Avila (FATEA), **Lorena-SP (Brasil)**, 29-31 August 2007
57. P. Torre, B. Rivas, B. Aliakbarian, P. Perego, A. Converti, "Vanillin production by *Escherichia coli* JM109 from alkaline corn cobs hydrolyzates", *1^o Congresso Integrado do Conhecimento, Vida, Sociedade e Futuro*, Faculdades Integradas Teresa D'Avila (FATEA), **Lorena-SP (Brasil)**, 29-31 August 2007
58. A. Converti, P. Perego, L. Maga, V. Dovì, "Using captured dioxide for enhancing growth of algae ponds", *Energy for sustainable future*, 95-104, ed. P. Varbanov, J. Klemesš, I. Bulatov, ISBN 978-963-9696-38-9, University of Pannonia, **Veszprém (Hungary)**, 5-6 May 2008
59. B. Rivas Torres, P. Torre, P. Perego, J.M. Domínguez, A. Converti, "Ferulic acid to vanillin bioconversion of corn cob hydrolyzate by *Escherichia coli* JM109/pBB1", *3rd International Conference on Environment*, **Atene (Greece)**, 22-25 May 2008;
60. R. Oliveira, P. Perego, A. Converti, M. Oliveira, "Effect of inulin supplementation of milk to prepare fermented biomilks", *Chemical Engineering Transactions* **14**, 2008, 185-191, G. Marino, E. Bardone, A. Viglia

(Eds.), Proceedings of IBIC 2008, *1st International Conference on Industrial Biotechnology*, ISBN 978-88-95608-02-0, **Napoli (Italy)**, 8-11 June 2008

61. D.A. Viana Marques, V.C. Santos, R.P.S. Oliveira, P. Perego, A.L.F. Porto, A. Pessoa Jr., A. Converti, “Estudo termodinâmico de formação e degradação de ácido clavulânico de *Streptomyces* DAUFPE 3060”, *25^o Congresso Brasileiro de microbiologia*, 1 (2009), Sociedade Brasileira de Microbiologia, São Paulo-SP, **Porto de Galinhas-PE (Brasil)**, 8 November 2009
62. B. Aliakbarian, D. De Faveri, A.A. Casazza, R.P.S. Oliveira, M.N. Oliveira, A. Converti, P. Perego, “Bio-extraction of olive oil: improvement of quality and extraction outputs”, *Chemical Engineering Transactions* **14**, 2008, 351-358, G. Marino, E. Bardone, A. Viglia (Eds.), Proceedings of IBIC 2008, *1st International Conference on Industrial Biotechnology*, ISBN 978-88-95608-02-0, **Napoli (Italy)**, 8-11 June 2008
63. A. Ben Hamissa, M. Seffen, B. Aliakbarian, A.A. Casazza, P. Perego. “Study of various methods of polyphenols extraction from *Agave Americana* (L.) Leaves”, *14th European Congress on Biotechnology*, **Barcelona (Spain)**, New Biotechnology, Volume 25, Supplement 1, page S292, 13-16 September 2009
64. E.Y. Ortiz Montoya, A.A. Casazza, B. Aliakbarian, P. Perego, A. Converti, J. C. M. Carvalho. “Growth and lipid composition of *Chlorella vulgaris* cultivated in a tubular photobioreactor fed with CO₂-enriched air”, *14TH International Biotechnology Symposium and Exhibition, Biotechnology for the Sustainability of Human Society*, **Rimini (Italy)**, 14-18 September 2010
65. B. Aliakbarian, A.A. Casazza, E.J. Ortiz Montoya, A. Converti, P. Perego. “Valorisation of Olive Oil Solid Wastes: Valuable Compounds Recovery Using High Pressure- High Temperature”, *14TH International Biotechnology Symposium and Exhibition, Biotechnology for the Sustainability of Human Society*, **Rimini (Italy)**, 14-18 September 2010
66. A.A. Casazza, B. Aliakbarian, E.Y. Ortiz Montoya, P. Perego. “*t*-resveratrol recovery from grape skins using high pressure and temperature extraction”, *14TH International Biotechnology Symposium and Exhibition, Biotechnology for the Sustainability of Human Society*, **Rimini (Italy)**, 14-18 September 2010
67. R. Pinheiro de Souza Oliveira, A. A. Casazza, B. Aliakbarian, P. Perego, M. Nogueira de Oliveira, A. Converti. “Co-metabolic models of *Streptococcus thermophilus* in co-culture with *Lactobacillus acidophilus*”, *14TH International Biotechnology Symposium and Exhibition, Biotechnology for the Sustainability of Human Society*, **Rimini (Italy)**, 14-18 September 2010
68. A.P. Espírito Santo, P. Perego, A. Converti, M.N. Oliveira, “Adding passion fruit fiber prior the fermentation of milk – The influence on fermentation time, bacteria counts and texture of skim and plain probiotic yoghurts”, *2011 European Federation of Food Science and Technology (EFFoST) Annual Meeting*, **Berlin (Germany)**, 9 November 2011
69. A.A. Casazza, B. Aliakbarian, P. Perego, A. Converti. “*Chlorella vulgaris* growth on digested urban sludge”, *Environmental Engineering and Management Journal*, Vol. 11, (Suppl. 3), p. 87, ISSN: 1843-3707, *Environmental Microbiology and Biotechnology in the frame of the knowledge- Based Bio and Green Economy*, **Bologna (Italy)**, 10-12 April 2012
70. B. Aliakbarian, A.A. Casazza, E. J. Ortiz Montoya, P. Perego, A. Converti. “*Chlorella vulgaris* growth in photobioreactor under different light intensities and dilution rates”, *Environmental Engineering and Management Journal*, Vol. 11, (Suppl. 3), p. 71, ISSN: 1843-3707, *Environmental Microbiology and Biotechnology in the frame of the knowledge- Based Bio and Green Economy*, **Bologna (Italy)**, 10-12 April 2012
71. A.Y. Amaral, P. Perego, S.C.S. Lannes, “Structural characteristics of chocolates”, in P. Fischer, E.J. Windhab, *Abstract book of the 6th International Symposium on Food Rheology and Structure*, 189 (2012), ISBN 978-39-05609-49-3, **Zurigo (Switzerland)**, 10th April 2012
72. A.P. Espírito Santo, A. Lagazzo, P. Perego, A. Converti, M.N. Oliveira, “Rheology, microstructure and sensorial properties of probiotic yoghurts containing fiber from passion fruit by-product”, *FFF Probiotics 2012, an International Symposium on Probiotics, Prebiotics and Health*, **Turku (Finland)**, 11 June 2012

73. A.A. Casazza, B. Aliakbarian, P. Perego, G. Busca. "Conversion of Organic Waste to Liquid Fuel by Pyrolysis Over Alumina Catalyst", *The AIChE 2012 Annual Meeting*, **Pittsburgh (USA)**, 28/10-02/11, 2012
74. A. A. Casazza, D. Palmieri, D. Aliakbarian, P. Perego, D. PALOMBO, "Effects of polyphenol extract from the microalga *Arthrospira platensis* on TNF-induced endothelial dysfunction", *62nd International Congress of the European Society for Cardiovascular and Endovascular Surgery (ESCVS)*, **Regensburg (Germany)**, 11-13 April 2013
75. B. Aliakbarian, M. Comotto, A.A. Casazza, M. Ferretti, P. Perego. "Influence of TiO₂ on phenolic compounds production in *Haematococcus pluvialis*", *World Biotechnology Congress*, **Boston (USA)**, 3-6 June 2013
76. A.A. Casazza, B. Aliakbarian, M. Paini, A. Converti, P. Perego. "Influence of UV stress on lipid content and phenolic compounds concentration of *Arthrospira platensis*", *World Biotechnology Congress*, **Boston (USA)**, 3-6 June 2013
77. A. Bucic-Kojić, A.A. Casazza, M. Paini, M. Planinić, P. Perego. "Extraction of total flavonoids from barley grain using high-temperature/high-pressure reactor", *7th International Congress Flour-Bread'13 and 9th Croatian Congress of Cereal Technologists*, **Opatija (Croatia)**, 16-18 October 2013
78. B. Aliakbarian, E. Arab-Tehrany, A. Hasani, A. Tamayol, D. Palmieri, N. Annabi, A.A. Casazza, P. Perego, A. Khademhosseini, D. Palombo. "Synthetic scaffolds with anti-inflammatory effects for vascular prosthesis", *63rd International Congress of the European Society for Cardiovascular Surgery*, **Nice (France)**, 24-27 April 2014
79. B. Aliakbarian, M. Hasan, M. Paini, A.A. Casazza, M. Comotto, P. Perego, E. Arab-Tehrany. "Nanoliposome encapsulation of apigenin", *International Congress on Natural Science and Engineering*, **Kyoto (Japan)**, 7-9 May 2014
80. A.A. Casazza, B. Aliakbarian, P. Perego, G. Busca. "Grape marc pyrolysis before and after recovery of polyphenols", *International Congress on Natural Science and Engineering*, **Kyoto (Japan)**, 7-9 May 2014
81. P.F. Ferrari, A.A. Casazza, D. Palmieri, B. Aliakbarian, P. Perego, D. Palombo. "Polyphenol extract from the microalga *Arthrospira platensis* counteracts the TNF α -induced endothelial dysfunction", *International Congress on Natural Science and Engineering*, **Kyoto (Japan)**, 7-9 May 2014

4 – Scientific Work Published for National Congresses / Conferences

1. P. Perego, G. Randi, "Problemi di degrado biologico negli impianti di trattamento rifiuti" *Atti del Convegno "Tecnologie avanzate e biotecnologia per la prevenzione dell'inquinamento e la protezione ambientale – Stato dell'arte e fattibilità"*, 582-592 (1987), **Siracusa**, 19-21 marzo 1987
- 2.
3. E. Palazzi, P. Perego, G. Zerbo, G. Ferraiolo, "Abbattimento delle emissioni atmosferiche provenienti dal processo di tostatura del caffè", *Atti 1° Congresso Nazionale di Chimica degli Alimenti*, 171-173 (1990), Carboneditore – Centro Stampa S.N.C., Messina, 1990, **Messina**, 9-13 ottobre 1990
4. P. Perego, E. Palazzi, R.A. Gardi, G. Randi, "La tostatura del caffè: studio delle emissioni atmosferiche a bassa soglia olfattiva e relativi criteri di abbattimento", *Atti del Convegno Nazionale CSLA-SIBA "Alimentazione, Industria Alimentare, Uomo e Ambiente"*, **Genova**, 7-8 novembre 1991
5. A. Converti, P. Perego, M. Zilli, L. Rubino, "Processi fermentativi nel trattamento dei residui dell'industria alimentare", *Atti del Convegno Nazionale CSLA-SIBA "Alimentazione, Industria Alimentare, Uomo e Ambiente"*, **Genova**, 7-8 novembre 1991
6. M. Nigro, M. Vitale, M.A. Vigliarolo, G.L. Levato, C. Milanaccio, P. Perego, P.L. Bruschettoni, "Mercurio: possibile contaminazione degli alimenti per l'infanzia – Programma di ricerca", *Atti Giornate Pediatriche*, 469-471 (1992), Società Italiana Pediatria Preventiva Sociale, Genova, 1992, **Limone Piemonte**, 27-28 marzo 1992

7. P. Perego, A. Ferraiolo, M. Del Borghi, G. Ferraiolo, "Qualità globale della produzione alimentare", *Atti XV Congresso di Merceologia "Libera circolazione e Qualità dei prodotti nel Mercato Unico Europeo"*, Roma, 24-26 settembre 1992
8. G.P. Ponzano, P. Perego, E. Palazzi, M. Del Borghi, G. Ferraiolo, "Celle a combustibile bioelettrochimiche", *Atti VI Convegno Nazionale ATI Gruppi combinati, prospettive tecniche ed economiche*, 223-236 (1992), SGE Editoriali, Padova 1992, **Genova**, 12-13 novembre 1992
9. P. Perego, G.M. Ferraiolo, B. Fabiano, A. Ferraiolo, "I biosensori: prospettive di applicazione in campo ambientale e alimentare", *Automation 1992, Proc. 36th ANIPLA Annual Conference*, 418-428 (1992), Pirella Editore, Genova, 1992, **Genova**, 16-18 novembre 1992
10. A. Ferraiolo, P. Perego, G.M. Ferraiolo, B. Fabiano, "Prospettive di applicazioni dei biosensori", *Atti del Convegno "Sistemi biologici immobilizzati – Acquisizioni e prospettive nel comparto agro-alimentare"*, RAISA, Bologna, 1993, **Bologna**, 3-4 novembre 1992
11. P. Perego, M.L. Cristina, C. Milanaccio, M. Nigro, A. Ferraiolo, P.L. Bruschettoni, "Valutazione di metalli pesanti in campioni di latte formulato e latte vaccino", *Atti IX Giornate Pediatriche*, 465-471 (1993), Società Italiana Pediatria Preventiva Sociale, Genova, 1993, **Limone Piemonte**, 12-13 marzo 1993
12. P. Perego, "Tavola Rotonda: Ambiente e contaminazione", *Atti IX Giornate Pediatriche*, 3 (1993), Società Italiana Pediatria Preventiva Sociale, Genova, 1993, **Limone Piemonte**, 12-13 marzo 1993
13. B. Fabiano, P. Perego, G. Ferraiolo, "Estensione dell'analisi di rischio all'industria alimentare finalizzata al conseguimento della qualità globale", *Atti 1° Congresso Italiano di Scienza e Tecnologia degli Alimenti*, 12-26 (1993), **Parma**, 18-20 ottobre 1993
14. A. Ferraiolo, C. Solisio, B. Fabiano, P. Perego, "Ruoli innovativi spontanei per l'ottimizzazione dell'efficienza ambientale: l'eco-audit", *Atti 1° Congresso Italiano di Scienza e Tecnologia degli Alimenti*, 12-26 (1993), **Parma**, 18-20 ottobre 1993
15. G.P. Ponzano, P. Perego, B. Fabiano, A. Ferraiolo, E. Palazzi, "Il ruolo strategico delle celle a combustibile bioelettrochimiche nel recupero energetico da reflui agro-alimentari", *Atti del Convegno "Ingegneria Chimica ed Elettrochimica per la Prevenzione dell'Inquinamento"*, **Laguna di Chia**, 18-21 settembre 1994
16. G. Sarantakos, P. Perego, A. Ferraiolo, A. Iurilli, "Immobilization of enzymes and conjugated microbial cells by gel entrapped microencapsulation for maximum expression of nitrogen-fixing and growth genes in plants and soil", *Minutes of Technical Meeting of the Working Party on Environmental Protection on "General Emission"*, **Genova**, 23 maggio 1995
17. P. Perego, A. Ferraiolo, B. Fabiano, "Ottimizzazione delle "mild-technologies" nell'industria delle conserve ittiche", *Atti XVII Congr. Nazionale di Merceologia sul tema "Merci e cicli produttivi nel settore agroindustriale alle soglie del 21° secolo"*, **Vol. I**, 566-571 (1996), SIM ed. (1996), **Lecce**, 3-5 ottobre 1996
18. B. Fabiano, P. Perego, A. Ferraiolo, "Produzione alimentare di eccellenza in campo nazionale. Il caso di specie delle conserve vegetali", *Atti XVII Congr. Nazionale di Merceologia sul tema: "Merci e cicli produttivi nel settore agroindustriale alle soglie del 21° secolo"*, **Vol. I**, 542-546 (1996), SIM ed. (1996), **Lecce**, 3-5 ottobre 1996
19. C. Solisio, P. Perego, A. Ferraiolo, "Protezione ambientale da emissioni a bassa soglia olfattiva del settore agro-alimentare. Il caso di specie della tostatura del caffè", *Atti XVII Congr. Nazionale di Merceologia sul tema: "Merci e cicli produttivi nel settore agroindustriale alle soglie del 21° secolo"*, **Vol. I**, 902-907 (1996), SIM ed. (1996), **Lecce**, 3-5 ottobre 1996
20. A. Ferraiolo, B. Fabiano, D. Bertocchi, P. Perego, "Incidenza del confezionamento sulla qualità e compatibilità ambientale della produzione agro-alimentare", *Atti XVII Congr. Nazionale di Merceologia sul tema: "Merci e cicli produttivi nel settore agroindustriale alle soglie del 21° secolo"*, **Vol. I**, 854-859 (1996), SIM ed. (1996), **Lecce**, 3-5 ottobre 1996

21. P. Perego, B. Fabiano, E. Palazzi, G.P. Ponzano, A. Del Borghi, "Prodotti della chimica fine ottenuti per via fermentativa partendo da residui agroindustriali", *Atti Congresso GRICU 1998*, 149-152 (1998), AIDIC ed., (1998), **Ferrara**, 23-25 settembre 1998
22. P. Perego, B. Fabiano, C. Solisio, R. Pastorino, P.A. Pagliotti, D.M. De Faveri, "Influenza del processo di torrefazione del cacao sulla qualità del cioccolato", *Atti XVIII Congr. Nazionale di Merceologia*, **Vol. I**, 517-523 (1998), SIM ed. (1998), **Verona**, 1-3 ottobre 1998
23. C. Pagella, P. Perego, A. Del Borghi, C. Solisio, D.M. De Faveri, "Trattamenti termici di prodotti termolabili. Il caso dell'eritorbato di sodio e dell'acido ascorbico", *Atti XVIII Congr. Nazionale di Merceologia*, **Vol. I**, 553-560 (1998), SIM ed. (1998), **Verona**, 1-3 ottobre 1998
24. P. Perego, A. Converti, M. Del Borghi, "Influenza della concentrazione di D-xilosio sulla produzione discontinua di xilitolo mediante *Pachysolen tannophilus*", *Atti del Convegno Congiunto ABCD, AGI, SIBBM e SIMGBM*, 234 (1998), **Montesilvano Lido**, 1-4 ottobre 1998
25. P. Perego, B. Fabiano, R. Pastorino, P.A. Pagliotti, M. Del Borghi, "Ottimizzazione del processo di tostatura del cacao e relativi indici di qualità", *Atti 4° Congresso in Scienza e Tecnologia degli Alimenti*, Chiriotti ed. (1999), **Cernobbio**, 16-17 settembre 1999
26. A. Del Borghi, C. Solisio, P. Perego, G. Genon, "Impact assessment on the environment for the cement industry. Influence of the production cycle" *Proc. IcheaP 4 Conference*, 723-726 (1999), **Firenze**, 2-5 maggio 1999
27. P. Perego, A. Converti, P. Canepa, M. Del Borghi, "Produzione di 2,3-butandiolo da residui agroalimentari mediante *Enterobacter aerogenes*", *Atti del 1° Congresso della Federazione Italiana Scienze della Vita*, 111 (1999), **Riva del Garda**, 2-6 ottobre 1999
28. A. Sordi, P. Torre, P. Perego, A. Converti, "Ottimizzazione della produzione di xilitolo per via fermentativa", *4° Convegno del Consorzio Interuniversitario Nazionale La Chimica per l'Ambiente (INCA)*, **Santa Margherita Ligure**, 25-28 febbraio 2001
29. M. Del Borghi, A. Converti, M. Zilli, P. Perego, A. Del Borghi, L. Rubino, E. Palazzi, "Ethanol and geraniol microbial acetylations in organic solvent. Kinetic and thermodynamic study", *Abstract Book Convegno Progetto Finalizzato Biotecnologie*, Consiglio Nazionale delle Ricerche, **Genova**, 28-30 ottobre 2001
30. P. Perego, D. De Faveri, P. Torre, A. Converti, "Bilanci di carbonio ed energia nello studio del metabolismo di *Enterobacter arogenes*", *Atti del 4° Convegno della Federazione Italiana Scienze della Vita*, 78 (2002), **Riva del Garda**, 20-23 settembre 2002
31. D. De Faveri, P. Torre, P. Perego, A. Converti, "Biotechnological exploitation of lignocellulosic materials: fed-batch production of xylitol", *Atti del 5° Convegno della Federazione Italiana Scienze della Vita*, 36 (2003), P.2.16, **Rimini**, 10-13 Ottobre 2003
32. P. Perego, F.C. Sampaio, D. De Faveri, P. Torre, A. Converti, "Influence of starting substrate concentration and oxygen mass flowrate on xylose-to-xylitol bioconversion by *Debaryomyces hansenii*", *XIV Congresso Nazionale di Catalisi GIC 2004, Le Scienze Molecolari al Servizio dell'Uomo*, Book of Abstracts, **Vol. 2**, 15-16 (2004), P8, **Lerici**, 06-10 Giugno 2004
33. D. De Faveri, C. Guarino, P. Torre, P. Perego, F. Molinari, A. Converti "Bioesterification of phenylacetic and 2-phenylpropionic acids by means of lyophilized mycelia", *Convegno GRICU 2004*, **Vol. I**, 401-404 (2004), **Porto d'Ischia**, 12-15 Settembre 2004
34. A. Converti, P. Perego, L. Binaghi, A. Lodi, P. Torre, V. Villanova, D. Soletto, "Carbon dioxide removal for the photoautotrophic cultivation of the microalga *Arthrospira (Spirulina) platensis*", *59° Congresso dell'Associazione Termotecnica Italiana, "Generazione di Energia e Conservazione dell'Ambiente"*, **Vol. 3**, 1791-1798 (2004), SGE Editoriali, Padova, ISBN 88-86281-93-5, **Genova**, 14-17 settembre 2004
35. A. Converti, M. Zilli, P. Perego, P. Torre, D. De Faveri, F. Molinari, "Hydrolysis and synthesis of ethyl-phenylacetate and ethyl-phenylpropionate by lyophilised mycelia of *Rhizopus oryzae* and *Aspergillus oryzae*",

Atti del 6° Convegno della Federazione Italiana Scienze della Vita, 214 (2004), **Riva del Garda**, 30 Settembre – 3 Ottobre 2004

36. D. De Faveri, P. Torre, B. Rivas, P. Perego, A. Converti, M. Del Borghi, “Processes for the biotechnological production of compounds of interest for the food industry”, *Giornate di Chimica e Biotecnologie delle Fermentazioni*, 10 (2005), **Latina**, 5-7 maggio 2005
37. D. De Faveri, F.C. Sampaio, P. Torre, P. Perego, F.M. Lopes Passos, A. Converti, M. Oliveira, M. Del Borghi, “Xylitol production: a biotechnological process”, *7th Italian Conference on Chemical and Process Engineering, IcheaP-7*, Chemical Engineering Transactions **6(2)**, 977-982 (2005), **Giardini di Naxos**, 15-18 Maggio 2005
38. D. De Faveri, T. Pizzorno, G. Spigno, P. Torre, P. Perego, A. Converti, “Antioxidants recovery from agro-industrial wastes”, *INCA Consorzio Interuniversitario Nazionale “La Chimica per l’Ambiente” VIII Congresso “Chimica sostenibile & Tecnologie ambientali: stato dell’arte e prospettive”*, 69 (2006), O 25, **Bologna**, 23-24 Marzo 2006
39. P. Torre, D. De Faveri, B. Rivas, P. Perego, M. Dominguez, A. Converti, “Xylitol production and purification from corncob hydrolyzates”, *INCA Consorzio Interuniversitario Nazionale “La Chimica per l’Ambiente” VIII Congresso “Chimica sostenibile & Tecnologie ambientali: stato dell’arte e prospettive”*, 185 (2006), P 74, **Bologna**, 23-24 Marzo 2006
40. L. Fiori, D. De Faveri, A.A. Casazza, P. Perego (2008). “Cinetica di estrazione supercritica di composti polifenolici da vinaccia”, *Convegno G.R.I.C.U. Ingegneria Chimica: Le nuove Frontiere, Le Castella (KR)*, 14-17 Settembre 2008;
41. B. Aliakbarian, D. De Faveri, A.A. Casazza, A. Converti, P. Perego, “Innovative olive oil extraction process”, *Convegno G.R.I.C.U. Ingegneria Chimica: Le nuove Frontiere, Le Castella (KR)*, 14-17 Settembre 2008
42. A.A. Casazza, E.Y. Ortiz, B. Aliakbarian, A. Converti, P. Perego, “Utilizzo di microalghe in campo bioenergetico *Convegno G.R.I.C.U. Ingegneria Chimica: Le nuove Frontiere, Le Castella (KR)*, 14-17 Settembre 2008
43. R. Pinheiro de Souza Oliveira, B. Aliakbarian, A.A. Casazza, P. Perego, A. Converti, M.N. Oliveira. “Effect of different prebiotics on the fermentation kinetics and probiotic survival in nonfat symbiotic fermented milk”, *Anais do XVII^o Simpósio Nacional de Bioprocessos 2009, Natal-RN (Brasile)*, 2-5 agosto 2009
44. E. Pistarino, B. Aliakbarian, A.A. Casazza, M.E. Cosulich, P. Perego. “Influence of operating parameters on the process of debittering of olives of Taggiasca cultivar in brine: temperature and microbial starter”, *83th National conference “Ambiente, Salute Nutrizione”*, page 90, **Genova**, 21-23 Ottobre 2010
45. M. Painsi, B. Aliakbarian, A.A. Casazza, P. Perego, “Microincapsulazione di estratto di sansa mediante spray drying”, *Convegno nazionale GRICU 2012*, 125-128 (2012), **Montesilvano**, 16-19 Settembre 2012
46. D. Frumento, A.A. Casazza, B. Aliakbarian, P. Perego, A. Converti, “Studio della crescita autotrofa di *Chlorella vulgaris* impiegando bicarbonato come fonte di carbonio” *Convegno nazionale GRICU 2012*, 187-190 (2012), **Montesilvano**, 16-19 Settembre 2012
47. B. Aliakbarian, M. Casale, M. Painsi, A.A. Casazza, S. Lanteri, P. Perego, “Utilizzo della spettroscopia NIR per la caratterizzazione di latte fermentato probiotico”, *Convegno nazionale GRICU 2012*, 549-552 (2012), **Montesilvano**, 16-19 Settembre 2012
48. A.A. Casazza, B. Aliakbarian, P. Perego, G. Busca, “Conversione catalitica di acidi grassi liberi su silice allumina”, *Convegno nazionale GRICU 2012*, 317-320 (2012), **Montesilvano**, 16-19 Settembre 2012
49. M. Casale, B. Aliakbarian, M. Painsi, A.A. Casazza, P. Perego & S. Lanteri. “Spettroscopia NIR per la caratterizzazione di alimenti funzionali: studio di un latte fermentato probiotico”, *5^o Simposio NIR, Padova*, 26-28 Settembre 2012

5 – Monographic Work

1. P. Perego, “Influenza microbiologica sulla corrosione degli acciai”, Tesi sperimentale di Dottorato di Ricerca in Ingegneria dei Materiali, Dicembre 1986, Depositata nelle Biblioteche Nazionali di Firenze e Roma
2. Comitato Scientifico Federchimica, “La Chimica per la qualità della vita”, collaboratori: M.E. Conti, P. Perego, P. Restani, FEDERCHIMICA – Federazione Nazionale dell’Industria Chimica, ottobre 1993
3. D De Faveri, P. Perego, R. Di Felice, “Produzione di bioetanolo”, In: *Biocombustibili e biocarburanti – soluzioni, tecnologie, agevolazioni*, 173-207 (2007), Collana Sviluppo Sostenibile, IPSOA Ed. 2007
4. D. De Faveri, P. Torre, B. Aliakbarian, J.M. Domínguez, P. Perego, G. Bustos, A. Converti, “Conversión microbiana de ácido ferúlico a vainillina”, In: G. Bustos Vázquez, G. Velázquez de la Cruz, E. Rangel Torres, E. Compeán Ramírez and J.R. Campos Leal, “*Aprovechamiento biotecnológico de productos agropecuarios II*”, 181-203 (2008), Eds., Plaza y Valdés, S.A. de C.V., Messico, 1st Edn, 2008, ISBN 978-970-722-768-2

Genoa, March 2017

Patrizia Perego
