

CURRICULUM VITAE

June

2009

This document presents Luismar Porto's broad education and career experience. It shows his interests in bringing the fields of physical and biological sciences to the engineering territory where his education was rooted. The convergence of biological/biomedical technologies with information technology and process engineering fundamentals is at the realm of his "genomic engineering" background.

**Luismar
Marques
Porto**

EDUCATION Luismar M. Porto received his Bachelors degree in Chemical Engineering from Universidade Regional de Blumenau, and Masters degree in Physical Chemistry from Federal University of Santa Catarina-UFSC (Florianópolis, SC)/COPPE-UFRJ (Rio de Janeiro, RJ), Brazil, and then his Ph.D. in Chemical Engineering from Northwestern University, Evanston, IL, USA. His Master's thesis dealt with catalyst tests and development to produce long chain oxygenates and hydrocarbons from synthesis gas. His doctoral thesis concentrated on the study of catalyst deactivation and packed bed reactor modeling using sulfur and coke-generating compounds on benzene hydrogenation.

POST-DOCTORAL TRAINING More recently, Prof. Porto has spent one year as a post-doc at the Chemical Engineering Department at the University of Queensland - Brisbane, Australia, where he has acquired basic skills in the area of Biological and Biomedical Engineering. He now holds an appointment as Visiting Scientist/Scholar at the Massachusetts Institute of Technology, at the Harvard-MIT Division of Health Sciences & Technology, Biomedical Engineering Center, Cambridge, MA, USA.

LABORATORY Prof. Porto is currently an Associate Professor of the Federal University of Santa Catarina (UFSC), one of the leading academic and research institutions in Brazil. At UFSC, Prof. Porto was part of the group that has founded the Chemical and Food Engineering Department, where he has served as its Head of Department, the Masters Program in Chemical Engineering, which he has served as a Chairman, and the Doctoral Program in Chemical Engineering. At UFSC he supervises the Integrated Technologies Laboratory (www.intelab.ufsc.br) and leads the Genomic Engineering Group, an inter-institutional research group with interests in advanced biotech products. He is also a collaborator of the Human Resources Program in Gas & Oil, a joint program with the Mechanical Engineering Department at UFSC, funded by the Brazilian National Oil Agency (ANP) and Petrobras, and at the Materials Sciences and Engineering Graduate Program.

TEACHING Prof. Porto's teaching interests reflect his broad education in virtually all areas of Chemical Engineering. During his career, Prof. Porto has taught the following undergraduate courses: Introduction to Chemical Engineering, General Technological Chemistry, Equipment Design, Introduction to Chemical Processes, Process Control and Simulation, Chemical Industries, Petrochemistry, **Chemical Reaction Engineering**, Transport Phenomena, **Thermodynamics**, Process Design, **Introduction to Genomic Engineering**; in the graduate program (Masters and PhD), the following courses: **Thermodynamics**, Heterogeneous Chemical Reactors, Fundamentals of Surface Chemistry and Heterogeneous Catalysis, Engineering and Design of Chemical Reactors, Chemical Process Kinetics, **Genomics and Bioinformatics**, **Metabolic Engineering**, Catalyst Deactivation, **Fundamentals of Genomic and Biomedical Engineering**, Fundamentals of Cellular and Molecular Biology for Biochemical Engineering, **Tissue Engineering** (Courses in **bold** have been taught for at least three times).

RESEARCH Prof. Porto's research interests combine his scientific and engineering training and expertise. His work falls in a variety of general categories including chemical reaction engineering, thermodynamics, and biological/biomedical problems. For the last seven years Prof. Porto has also been involved in research and educational projects that bring post-genomics information and technologies to the field of biological and biomedical engineering. Particular efforts have been done by his group in order to understand fundamental aspects of gene structures and organization in bacterial biopolymer synthesis and hydrogen production, the role of transcription factors in regulating protein expression, and how secondary metabolite production may be optimized using metabolic engineering and other systems biology tools. In the Federal University of Santa Catarina (UFSC), and now at Harvard-MIT, Prof. Porto is leading an interdisciplinary team that is interested in several tissue engineered biomedical technologies, including novel designs of drug-eluting stents, based on pharmacogenomics data and computational fluid dynamics (CFD) analyses.

BIOTECH / BIOMED On the biotechnology front, interests ranges from hydrogen production by engineered bacteria, micro/nano bacterial cellulose fibers and composites for biomedical applications (Patent pending) and polyhydroxyalkanoate production. Prof. Porto has published more than one hundred scientific works in international journals and conference proceedings. He has been supervisor of post-docs, PhD theses (ten), Masters theses (twenty) and more than 40 undergraduate students. Prof. Porto has been invited to several distinguished talks and conferences, and has received several awards and academic recognition for his work on behalf of the chemical engineering education.

HONORS Recently he was the major invited speaker at the Brazilian National Education Conference in Chemical Engineering (ENBEQ), the **first** Brazilian honored with such invitation in more than 20 years. Also recently he was honored by the Class of 2007 as "The Name of the Class" of the Chemical Engineering undergraduate program at UFSC. Last year his group has won the X-Meeting 2007 Best Poster Award. The work on "Theoretical and Computational Modeling of Paclitaxel (Taxol®) Action on the Cell Cycle of Smooth Muscle Cells" was presented during the 3rd International Conference of the Brazilian Association of Bioinformatics and Computational Biology and received "recognition of an outstanding presented work".

CONSULTING Prof. Porto has been a consulting professional for several companies in the area of chemical engineering processes, including BRASKEM S.A. (NYSE:BAK), a leading petrochemical company in South America, and BUNGE ALIMENTOS S.A. (NYSE:BG), a leading producer of food, and grains such as soy and wheat. In his "free" time he enjoys playing with Internet servers (Windows and Linux) and web developments (wikis and CMS). He has experience programming in FORTRAN, C/C++, Visual Basic, MATLAB, PHP/MySQL, and some exposure to CFX, OpenFOAM and other Computational Fluid Dynamics and general software.



Cambridge, MA, USA, June 2009.

CURRICULUM VITAE

Luismar Marques Porto

CAREER OBJECTIVE

To work towards the integration between fundamental engineering concepts and biological/biomedical technologies, through the application of mathematical modeling, molecular sciences, and applied genomics

Personal Data



Place of Birth

Tubarão, SC, Brazil
51, married, two children
Website: www.intelab.ufsc.br
Institutional e-mails:
✉ luismar@mit.edu
✉ luismar@intelab.ufsc.br

Current Address

2386 Massachusetts Avenue, Apt. 2
Cambridge, MA 02140, USA
Phones: +1-617-714-4357 (home)
+1-617-708-6769 (mobile)

Current Professional Status

Visiting Scientist at **Harvard-MIT**, HST Division, Cambridge, MA, USA
Associate Professor, Federal University of Santa Catarina (UFSC), Florianópolis, Brazil
Research Fellow of the Brazilian National Research Council (CNPq),
Ministry of Science & Technology, Brasília, Brazil
Genomic Engineering Group Leader, CNPq/UFSC
Integrated Technologies Laboratory Supervisor, UFSC

Education / Postdoctoral Training

2007 – 2010

Visiting Scientist/Research Scholar
Biomedical Engineering Center
Massachusetts Institute of Technology
Harvard-MIT Health Sciences & Technology Division
Cambridge, MA, USA (<http://hst.mit.edu>)
Field: Tissue engineering of cardiovascular genomics
R&D Project:
Genomics Considerations in the Development of Advanced Drug-Eluting Stents
Project collaborator: Elazer R. Edelman, MD, PhD, FACC

2001 – 2002

Post-doctoral fellow/Visiting Scholar
Chemical Engineering Department

	<p>The University of Queensland, Brisbane, Qld, Australia (www.uq.edu.au) Field: Biological & Biomedical Engineering Project: Biological Engineering – The Living Map Project Project collaborator: Lars K. Nielsen, PhD</p>
1989 – 1993	<p>PhD in Chemical Engineering Northwestern University, Evanston, Illinois, USA (www.northwestern.edu) Field: Chemical Reaction Engineering Thesis: Co-Deactivation of a Fixed Bed Reactor. Poisoning of a Nickel/Kieselguhr Catalyst by Thiophene and 1-Propanethiol Thesis director: John B. Butt, PhD</p>
1982 – 1987	<p>Master of Science in Physical Chemistry / Chemical Engineering Federal University of Santa Catarina, UFSC, Florianópolis, SC (www.ufsc.br) / COPPE-Federal University of Rio de Janeiro, RJ, Brazil (www.coppe.ufrj.br) Field: Heterogeneous Catalysis (Liquid fuels from coal) Thesis: Study of Fused Iron Catalysts for the Fischer-Tropsch Synthesis (Estudo de Catalisadores de Ferro Fundido para a Síntese de Fischer-Tropsch) (in Portuguese). Thesis directors: Nivaldo Cabral Kuhn, PhD & Martin Schmal, Dr. rer. Nat.</p>
1977 – 1980	<p>Bachelor's degree in Chemical Engineering Regional University of Blumenau, FURB, Blumenau, Santa Catarina, Brazil (www.furb.br) Awarded 1st place among all engineering graduating students</p>

Languages	<p>English (fluent) / Portuguese (native) / Spanish (fair) /Basic knowledge of German and French</p>
------------------	--

Areas of Expertise and Current Research	<p>Tissue engineering / Biomedical engineering</p> <ul style="list-style-type: none"> Development of novel biopolymers for 3D cell culture and drug delivery Control of angiogenesis using plant extracts and <i>in vitro</i> & <i>in vivo</i> models Bone and cartilage tissue engineering Cardiovascular pharmacogenomics and CFD modeling and simulations Drug eluting stents (DES) development <p>Systems Biology / Bioinformatics / Metabolic and regulatory networks</p> <ul style="list-style-type: none"> Hybrid Petri Nets for tryptophan and violacein biosynthesis Pathway/Genome database for <i>Chromobacterium violaceum</i> 3D-modeling of proteins by homology
--	--

Development of metabolic engineering toolboxes
 Comparative genomics

Genetic engineering / Molecular biology

Production of polyhydroxyalkanoates (PHB, PHB-co-PHV, etc)
 Production of violacein (antitumoral and antichagasic drug)
 Production of bacterial cellulose films and hydrogel scaffolds
 Hydrogen GM bacterial fuel cell development
 DNA-protein interactions in the Fragile X syndrome genomic region

Reaction Engineering / Thermodynamics

Catalyst deactivation / Enzyme kinetics
 Reactor modeling, design and simulation
 Heterogeneous reactor thermodynamics and CFD analyses
 Thermodynamics of chemical and biological systems

**Currently
 Funded
 Research
 Projects**

Participation in several research projects as P.I. and as collaborator in the areas of molecular biology, metabolic engineering, and tissue engineering at UFSC and other institutions in Brazil, Australia, and United States.

Participation as Principal Investigator (Last 4 years)

- 2009 – date Three-dimensional vascularized bacterial cellulose for applications in tissue engineering and regenerative medicine.
 - Grant from the National Research Council, CNPq no. 500555/2009-5
- 2007 – 2010 Genomics Considerations in the Development of Advanced Drug-Eluting Stents
 - Grant from the the National Research Council, CNPq no. 200804/2007-3
- 2007 – date Development and pre-clinical studies of biopolymer products associated with active biomolecules extracted from *Aloe vera* L.
 - Grant from FINEP/Ministry of Science and Technology of Brazil
- 2007 – date Isolation, identification and quantification of aloin obtained from *Aloe vera*.
 - Grant from FAPESC / State of Santa Catarina Science and Technology Foundation
- 2007 – date Metabolic engineering of bacteria for hydrogen production from biodiesel residues.
 - Grant from the National Research Council, CNPq no. 486091/2006-6
- 2005 – 2008 Development of bacterial polyhydroxyalkanoates for medical applications.
 - Grant from the National Research Council, CNPq no. 507329/2004-0

- 2004 – 2008 Molecular tissue engineering: development of biocompatible biopolymers produced by genetically modified bacteria.
- Grant from the National Research Council, CNPq no. 505675/2004-8

Consulting Experience

Governmental Consulting

- 1994 – date *Ad hoc* consulting of research projects for the Brazilian National Research Council (CNPq) (www.cnpq.br)
- 1996 – date *Ad hoc* consulting of research projects for the State of Santa Catarina Research Foundation (www.funcitec.rct-sc.br)
- 1989 Task force member of the Natural Gas Special Committee for the Santa Catarina State Government. The committee report recommended in the implantation of natural gas as part of the regional energy matrix. In 1994 the Santa Catarina State Gas Company, SCgás (www.scgas.com.br) was founded and, in 1999, the Bolivia-Brazil pipeline (GASBOL), the longest natural gas pipeline in South America started its operation.

Industrial Consulting

- 2007 Member of the Santa Catarina State Board of Professional Engineers (Inspector of CREA-SC, www.crea-sc.org.br)
- 2005 – 2007 Consulting on mathematical modeling and simulation of industrial processes for Bunge Alimentos S.A. (www.bunge.com). Bunge Alimentos is part of the Bunge Corporation (NYSE:BG). The company has over 450 facilities in 32 countries and is headquartered in New York, USA
- 1999 – 2000 Consulting on vegetable oils and fats processing for a major Italian company technical representative for South America, developing adsorbents and processes that resulted in more effective bleaching processes
- 2004 Training of process engineers in the field of chemical reaction engineering of the largest petrochemical company in Latin America, Braskem S.A. (NYSE:BAK), in Maceió, State of Alagoas. Braskem figures among the five biggest Brazilian private companies (www.braskem.com.br)
- 2002 Assisting *ad hoc* group in preparing educational project for the training of

thousands of operators (1620 hours distance learning education program) for petroleum refining and petrochemical industries, Petrobras S.A. (NYSE:PBR) (www.petrobras.com). Petrobras has 109 production platforms and 15 refineries. The company has various subsidiaries, including Petroquisa which is engaged in the production, commercialization, distribution, import and export of chemical products

Educational & Research Consulting

2009 Research project evaluator for the Federal University of Rio Grande do Norte (UFRN), Natal, RN, Brazil

Educational consultant for the State of Santa Catarina Educational Council (Conselho Estadual de Educação), for the accreditation of the Chemical Engineering undergraduate program at UNIVILLE, Joinville, SC, Brazil

Development of new strategies for the treatment of traumatic spinal cord lesion. P.I. Dr. Janices Köpp, funded by FAPESC, State of Santa Catarina Research Foundation.

2007 Research project evaluator for the Federal University of Rio Grande do Norte (UFRN), Natal, RN, Brazil

2000 – 2002 Educacional consultant for Fundação CESGRANRIO, a major educational foundation in Rio de Janeiro, Brazil, (www.cesgranrio.org.br)

Educational consultant for the National Institute of Educational Studies and Research (INEP) (www.inep.gov.br/idiomas/ingles)

1987 – date *Ad hoc* reviewer and evaluator of educational projects and research proposals for several institutions in Brazil, including CNPq, CAPES, CESGRANRIO Foundation, Ministry of Education, Ministry of Science and Technology, and Science & Technology Foundations of several Brazilian States

1994 – date *Ad hoc* reviewer of national and international journals, including Industrial & Engineering Chemistry Research, Journal of the American Oil Chemists Society, Brazilian Journal of Food Technology, Brazilian Journal of Chemical Engineering, and Latin America Applied Research.

1998 –1999 Educational consultant for the Ministry of Education of Brazil (MEC, www.mec.gov.br) for Chemical Engineering Programs' accreditation

Academic Record

Graduate and Undergraduate Projects Supervised (Full list given ahead)

1996 – 2007 **Completed (defended theses and dissertations)**

- 01 Post-doctoral fellow project supervisor
- 09 Doctoral (PhD) thesis
- 22 Master thesis
- 14 Monographies
- 33 Scientific Initiation (undergraduate lab training)
- 09 Other undergraduate projects

2007 **Current (on-going projects)**

- 01 Post-Doctoral
- 01 Doctoral (PhD)
- 05 Masters
- 02 Scientific Initiation (undergraduate lab training)

Notice: Current research graduate projects are in the areas of tissue engineering, systems biology, Fragile-X syndrome, and GM bacterial hydrogen fuel cells

Major Educational Projects

2002 Founder of the Genomic Engineering Group, an official national research group, sponsored by CNPq (www.geg.ufsc.br)

2002 Founder of the Integrated Technologies Laboratory – IntelLAB, an academic laboratory devoted to integrate multidisciplinary research (www.intelab.ufsc.br)

1993 – 1996 Co-Founder of the Master’s and Doctoral Program in Chemical Engineering (CPGENQ) at the Federal University of Santa Catarina (UFSC) (www2.enq.ufsc.br/cpgenq/english/home_e1.html)

1982 – 1984 Co-Founder of the Chemical and Food Engineering Department at the Federal University of Santa Catarina (UFSC) (www.enq.ufsc.br)

Research & Development, Commercial and Other Academic Projects

2003 – date Post-genome Bioinformatics: Developing the Bases of Genome Engineering *in silico*

2003 – 2006 GEniS/VioBox Computational Module: Regulation of Gene Expression in Violacein Biosynthesis in Gram-negative Bacteria

2003 – 2005 Metabolic Engineering for the Production of Anti-Tumour Agents

2002 – date Construction of the Metabolic Map of *Chromobacterium violaceum*

2000 – date	MECPETRO – Human Resources Educational Program in Mechanical Engineering with Emphasis on Petroleum and Gas (ANP – Brazilian Petroleum Agency)
2000 – 2001	Supervision of Client-Server Software and Hardware Installation of a Commercial Web Call Center
1998 – 2002	Restructuring the Undergraduate Education in Chemical Engineering at UFSC, REENQ/PADCT-98
1982 – 2002	Global Analysis of Critical Control Points: An Integrated Management System for Industrial Processes
1998	Support to the Chemistry and Chemical Engineering Undergraduate Programs (Of. Doc. 001/EQA/98, of 04/05/98)
1997 – 1998	Development of Simulators for Chemical Reactor under Deactivating Conditions
1997 – 1998	Introducing Experimental Methodologies in Chemical Reaction Engineering Education – FUNGRAD 1/97
1996 – 1998	Assembling and Automatization of a Ultrafiltration Unit for Food Products
1995 – 1998	Characterizing the Heterogeneity of Catalyst Surfaces and Deactivation Dynamics of Fixed Bed Reactors (Integrated Research Project /CNPq)
1996	Design and Creation of the first Brazilian Chemistry Council Website, CRQ/SC (www.crq.org.br) and the Online Professional Informative SOLUÇÃO ON-LINE
1996 – date	Installation, Assembly, and Configuration of Internet and Intranet Servers
1994 – 1995	Assembling of a Microgravimetric Reactor Unit – Amoco's donated equipment (cf. Decl. Coord. Pesq., 03/07/95)
1986 – 1987	The New Informatics Techniques and their Integration in the Chemical Engineering Education - Project NOVA UNIVERSIDADE, Ministry of Education of Brazil
1981	Mineral Coal Pyrolysis at Low Temperatures (Research project collaborator)

Employment

1982 – date **Faculty of the Chemical and Food Engineering Department**

Federal University of Santa Catarina (www.ufsc.br)
Technological Center (www.ctc.ufsc.br)

Chemical and Food Engineering Department (www.enq.ufsc.br)
Florianópolis, SC, Brazil

- Auxiliar Professor Level 1 (Aug 1982)
 - Auxiliar Professor Level 2 (May 1983)
 - Auxiliar Professor Level 3 (May 1985)
 - Auxiliar Professor Level 4 (May 1987)
 - Assistant Professor Level 3 (July 1987)
 - Assistant Professor Level 4 (July 1989)
 - Adjunct Professor Level 1 (July 1991)
 - Adjunct Professor Level 2 (July 1993)
 - Adjunct Professor Level 3 (July 1995)
 - Adjunct Professor Level 4 (July 1997)
 - Associate Professor Level 1 (Jan 2007)*
- * A new career plan has been established

Professional Experience and Leadership

- Head of the Department (1987–1988)
- Chairman of the Graduate Program (1995)
- Research Director (1989–1990)
- Lab Supervisor (1988–date)
(Currently: Integrated Technologies Laboratory)
- Principal Investigator (1994–date)
(Currently: Leader of the Research Group on Genomic Engineering)
- Participation in several academic committees at administrative level and to represent the department, the center and the university
- Participation in several academic committees to select faculty members for UFSC and other major universities in Brazil
- Participation in several Examination committees in Graduate Programs at UFSC and other major universities in Brazil
- Participation in several Organizing Committees, including the Brazilian Chemical Engineering Congress (COBEQ'2008, <http://www.itarget.com.br/clients/cobeq.com.br/>) and X-Meeting 2007, the 3rd Conference of the Brazilian Association for Bioinformatics and Computational Biology (<http://www.xmeeting.cnptia.embrapa.br>)

Teaching/Undergraduate Courses

- Introduction to Genomic Engineering
- Introduction to Chemical Engineering
- General Technological Chemistry I
- Equipment Design II
- Introduction to Chemical Processes
- Process Analysis and Control I
- Process Analysis and Control II
- Chemical Process Industries II
- Petrochemistry

- Chemical Reaction Engineering I
- Chemical Reaction Engineering II
- Transport Phenomena I (Fluid Mechanics)
- Chemical Engineering Thermodynamics I
- Chemical Engineering Thermodynamics II
- Process and Equipment Design II

Teaching/Graduate Courses

- Introduction to Genomic and Biomedical Engineering
- Genomics and Bioinformatics
- Metabolic Engineering
- Tissue Engineering
- Advances in Tissue Engineering
- Thermodynamics and Kinetics
- Engineering of Heterogeneous Chemical Reactors
- Fundamentals of Surface Chemistry and Heterogeneous Catalysis
- Engineering and Design of Chemical Reactors
- Chemical Process Kinetics
- Catalyst Deactivation
- Thermodynamics of Biological Processes

Administrative Board Member and Founder

- 1996 – 2001 Porta Digital Internet Ltda.
Internet Services & Access Provider
Florianópolis, SC, Brazil
- 2000 – 2001 Web Call Brasil Ltda.
Web-based Call Center & Information Technology Consulting Firm
Florianópolis, SC, Brazil

Teaching Assistant

1991 – 1993 Northwestern University – NU, Evanston, IL, United States of America

Teaching/Undergraduate Courses:

- Process Principles
- Thermodynamics
- Advanced Thermodynamics
- Chemical Engineering Design II

Assistant Professor

1981 University of Southern Santa Catarina, UNISUL, Tubarão, Santa Catarina, Brazil

	<p>Teaching/Undergraduate Courses:</p> <ul style="list-style-type: none"> • Physical Chemistry II • Analytical Chemistry I (Qualitative) • Analytical Chemistry II (Quantitative) • Modern Physics
	<p>Researcher / Teaching Assistant</p>
1979 – 1980	<p>Regional University of Blumenau, FURB, Blumenau, Santa Catarina, Brazil</p> <ul style="list-style-type: none"> • Teaching assistant in Physical Chemistry • Teaching assistant in Organic Chemistry • Chemicals' Storage Room Manager/Supervisor
	<p>Teacher / High School (at age 17)</p>
1976	<p>Ministro Jarbas Passarinho High School – CMJP, Armazém, SC – Brazil</p> <ul style="list-style-type: none"> • Mathematics (Freshman Class)

Awards and Honors

- 2009** Patron of the Chemical Engineering Undergraduate Class of 2008/2, Federal University of Santa Catarina
- Invited speaker of the III Symposium on Chemical Engineering at the State University of Maringá (UEM), Maringá, PR, Brazil
- Special invited speaker of the Chemical Engineering Graduate Program at the Regional University of Blumenau (FURB), Blumenau, SC, Brazil
- Special invited speaker of the Chemical Engineering Program at University of Joinville (Univille), Joinville, SC, Brazil
- 2008** Name of the Undergraduate Chemical Engineering Class of 2007/2 Federal University of Santa Catarina, special honours conferred by the class in recognition of friendship and support
- 3-Year Personal Grant for Research Productivity, CNPq – Brazilian National Research Council (Pesquisador CNPq, nível 2)
- Special invited speaker of the XIV Chemical Engineering Academic Week at the Regional University of Blumenau (FURB), Blumenau, SC, Brazil

- 2007** X-Meeting 2007 Best Poster Award for the work Theoretical and Computational Modeling of Paclitaxel (Taxol®) Action on the Cell Cycle of Smooth Muscle Cells, presented at the 3rd International Conference of the Brazilian Association of Bioinformatics and Computational Biology. Award in "recognition of an outstanding presented work"
- Fellowship for Post-doctoral Studies as Visiting Scholar at Harvard-MIT, Health Sciences and Technology Division (hst.mit.edu)
Scholarship given by CNPq, the Brazilian National Research Council
- Fellowship for Post-doctoral Studies as Visiting Scholar at Harvard-MIT, Health Sciences and Technology Division (hst.mit.edu)
Awarded by CAPES, Brazilian Ministry of Education (declined in favor of CNPq's)
- 2006** Patron of the Chemical Engineering Undergraduate Class of 2006/1, Federal University of Santa Catarina
- 2005** 3-Year Personal Grant for Research Productivity, CNPq – Brazilian National Research Council (Pesquisador CNPq, nível 2)
- Opening Plenary Conference of the XI ENBEQ, the Brazilian National Meeting on Chemical Engineering Education (Encontro Nacional de Ensino de Engenharia Química), sponsored by ABEQ – the Brazilian Association of Chemical Engineering & Federal University of Campina Grande. This was the first time a Brazilian was invited to speak at the opening conference since its inauguration, in 1981
- Special invited speaker of the IV Workshop on Environment and New Technologies (Jornada de Estudos Ambientais e Novas Tecnologias), UNOCHAPECÓ, Chapecó, SC, Brazil
- Special invited speaker of the II Meeting of Chemical Engineers of the State of Parana (Encontro de Engenheiros Químicos do Paraná), sponsored by the State of Paraná Association of Chemical Engineers & the Federal University of Paraná
- 2004** Special invited speaker of the I Workshop in Genetics: Human Genetics, sponsored by the Brazilian Association of Genetics / Santa Catarina State branch, Florianópolis, SC, Brazil
- Special invited speaker of the 38th Brazilian Congress of Clinical Pathology, organized by the Brazilian Society of Clinical Pathology – Clinical Laboratories, Florianópolis, SC, Brazil
- Special invited speaker of the III Workshop on Environment and New Technologies (Jornada de Estudos Ambientais e Novas Tecnologias), UNOCHAPECÓ, Chapecó, SC, Brazil
- 2003** Paronymph of the Chemical Engineering Class of 2002/1, Federal University of Santa Catarina

- 2002 Opening Plenary Conference of the II Workshop on Agrobusiness and Food Sciences (Semana do Centro de Ciências Agroambientais e Alimentos), organized by Centro de Ciências Agroambientais e Alimentos, Western Santa Catarina University (Universidade do Oeste de Santa Catarina (UNOESC) / Videira, SC, Brazil
- Paranymph of the Chemical Engineering Class of 2001/2, Federal University of Santa Catarina
- 2001 Post-doctoral Scholarship (University of Queensland (Brisbane, QLD, Austrália), awarded by CNPq – Brazilian National Research Council
- Post-doctoral Scholarship (University of Queensland (Brisbane, QLD, Austrália), awarded by CAPES – Brazilian Ministry of Education (declined in favor of CNPq's)
- 2000 Opening Plenary Conference, as invited speaker, of the X CONEEQ – National Chemical Engineering Students Congress (Congresso Nacional de Estudantes de Engenharia Química, Centro Acadêmico Livre de Engenharia Química e Engenharia de Alimentos, Florianópolis, SC, Brazil
- 1997 Patron of the Chemical Engineering Class of 1996/2, Federal University of Santa Catarina
- 1995 Award in Recognition of Work in favor of the State of Santa Catarina Professional Engineering Board (Conselho Regional de Engenharia, Arquitetura e Agronomia, CREA/SC)
- 1991 Participation with Distinction and Recognition of Contributions to the U.S. Citizenship Course, Evanston Township High School, Evanston, Illinois, USA
- 1989 Scholarship for Doctoral Studies awarded by CNPq, the Brazilian National Research Council
- Scholarship for Doctoral Studies awarded by CAPES, Brazilian Ministry of Education (declined in favour of CNPq's)
- 1985 Scholarship for Master's Studies awarded by CAPES, Brazilian Ministry of Education
- 1980 Medal of Honor and financial award for the First Place in the School of Engineering, awarded by the State of Santa Catarina Professional Engineering Board (Conselho Regional de Engenharia, Arquitetura e Agronomia - CREA/SC)
- Financial award and diploma for the First Place in the School of Engineering, awarded by the State of Santa Catarina Industrial Federation - FIESC

Publications

Book Translations and in Preparation

- 2007 – date Porto, L. M.; Serpa, G. An Introduction to Genomic Engineering (in preparation): Editora Manole: Barueri, São Paulo, SP
- 2005 – 2006 Porto, L.M. 2005. Engenharia de Tecidos (Published as textbook notes, 14 chapters, in Portuguese). Translation of "Tissue Engineering", by Bernard Ø. Palsson and Sangeeta N. Bathia. Pearson Prentice Hall, Upper Saddle River, NJ, 2004
- 2002 Moraes, F. F.; Porto. L.M. 2002. Elementos de Engenharia de Reações Químicas. Rio de Janeiro, RJ: LTC - Livros Técnicos e Científicos Ltda. Translation of "Elements of Chemical Reaction Engineering", 3rd Edition, by H. Scott Fogler, Prentice-Hall, 1999

Full Papers in Journals

- 2009 Becker, S.; Soares, C.; Porto, L.M. Computational Analysis Suggests that Virulence of *Chromobacterium violaceum* Might be Linked to Biofilm Formation and Poly-NAG Biosynthesis. (Accepted) To appear in *Genetics and Molecular Biology* (Manuscript no. MS2009/137), 2009.
- 2008 Rambo, C.R.; Recouvreux, D.O.S.; Carminatti, C.A.; Pitlovanciv, A.K.; Antônio, R.V.; Porto, L.M. Template assisted synthesis of porous nanofibrous cellulose membranes for tissue engineering. *Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems*, v. 28, p. 549-554, 2008.
doi:10.1016/j.msec.2007.11.011
- Recouvreux, D.O.S.; Carminatti, C.A.; Pitlovanciv, A.K. ; Rambo, C.R.; Porto, L.M.; Antônio, R.V. Cellulose Biosynthesis by the Beta-Proteobacterium *Chromobacterium violaceum*. *Current Microbiology*, v. 57, p. 469-476, 2008.
<http://www.springerlink.com/content/h1mn0u60q5752615/>
doi:10.1007/s00284-008-9271-0
- Carminatti, C.A.; Oliveira, I.L.; Recouvreux, D.O.S.; Antônio, R.V.; Porto, L.M. Anthranilate synthase subunit organization in *Chromobacterium violaceum*. *GMR – Genetics and Molecular Research*. v. 7 (3), p. 830-838,
<http://www.funpecrp.com.br/gmr/year2008/vol7-3/pdf/X-Meeting001.pdf>
- Porto, L.M.; Berti, F.V.; Oliveira, I.L.; Dias, P.F. Mathematical modeling of the effects of aloin and chlorophyll parenchymal extract from *Aloe vera* in the early blood vessel formation of chick embryos. Manuscript in preparation to be submitted as original paper to the *Journal of Theoretical Biology*
- Serpa, G.; Tassone, F.; Porto, L.M. Identification of potential target proteins that

- bind conserved sequences in the upstream region of the FMR1 gene. Manuscript in preparation to be submitted as a Research Article to BMC Genomics
- Porto, L.M. (Adapting chemical engineering undergraduate curricula: A new approach to chemical engineers' career and professional profile) Reforma curricular na Engenharia Química: Uma nova concepção de carreira e de perfil profissional. To appear in the Brazilian Journal of Chemical Engineering (Revista Brasileira de Engenharia Química – REBEQ, http://www.abeq.org.br/publicacao_rebeq.asp)
- Oliveira, C.G.; Porto, L.M. Modeling and simulation of industrial vegetable oil bleaching process, submitted to Journal of Food Engineering (under review, Manuscript Number JFOODENG-D-0800243)
- 2007 Berti, F.V.; Pértile, R.A.N.; Siqueira Júnior, J.M.; Valle, R.M.R.; Dias, P.F.; Porto, L.M. 2007. (*In vitro* study of aloin antitumoral effect in melanoma cell culture) Estudo *in vitro* do efeito antitumoral da aloína em cultura de células de melanoma. *Exacta*, São Paulo, v. 5, n.1, p. 169-176, Jan./Jun. 2007. http://portal.uninove.br/marketing/cope/pdfs_revistas/exacta/exactav5n1/exacta_v5n1_3p45.pdf
- Pértile, R.A.N.; Siqueira Júnior, J.M.; Rambo, C.R.; Berti, F.V.; Valle, R.M.R.; Porto, L.M. 2007. (Interaction of cell culture with biopolymeric support for biomedical applications) Interação de culturas celulares com suportes biopoliméricos para aplicações biomédicas. *Exata*, São Paulo, v.5, n. 2, p. 342-352, jul./dez. 2007 http://portal.uninove.br/marketing/cope/pdfs_revistas/exacta/exactav5n2/exactav5n2_3o43.pdf
- 2006 Foletto, E.L.; Volzone, C.; Porto, L.M. 2006. Clarification of cottonseed oil: how structural properties of treated bentonites by acid affect bleaching efficiency. *Latin America Applied Research*, v. 36, p. 37-40, Argentina
- 2005 Veiga, D.F.; Cecconello, P.S.; de Lucca, J.E.; Porto, L.M. 2005. Extension of the IsaViz Software for the Representation of Metabolic and Regulatory Networks. *Brazilian Archives of Biology and Technology*, Curitiba, PR, v. 48, n. Special, p. 197-205
- Oliveira, C.G.; Porto, L.M. 2005. A Kinetic Model for Bleaching Vegetable Oils. *Journal of the American Oil Chemists' Society (JAOCS)*, v. 82, n. 7, p. 537-542, Champaign, IL, USA.[doi:10.1007/s11746-005-1106-1](https://doi.org/10.1007/s11746-005-1106-1)
- 2003 Foletto, E.L.; Sganzerla, L.R.; Porto, L.M. 2003. (Applicability of Langmuir and Freundlich isotherms in the clarification of edible oils) Aplicabilidade das isothermas de adsorção de Langmuir e Freundlich na clarificação de óleo comestível. *Acta Ambiental Catarinense*, Chapecó, SC, v. 1, n. 2, p. 19-26
- Maliska, C.R.; Georg, I.C.; Porto, L.M. 2003. (CDF Applications – Computational fluid dynamics to solve refining problems in the oil industry) Aplicações de CFD - Mecânica dos Fluidos Computacional para Problemas de Refino na Indústria de Petróleo. *Revista Petro e Química*, São Paulo, SP, XXVII, n. 249, p. 80-87

- http://www.petroquimica.com.br/edicoes/ed_249/artigo.html
- Foletto, E.L.; Volzone, C.; Porto, L.M. 2003. Performance of an Argentinian Acid-Activated Bentonite in the Bleaching of Soybean Oil. *Brazilian Journal of Chemical Engineering*, São Paulo, SP, v. 20, n. 2, p. 139-145
- Foletto, E.L.; Alves, C.C.A.; Porto, L.M. 2003. (Regeneration and reuse of a commercial bleaching clay used in the clarification of vegetable oils) Regeneração e Reutilização de uma Argila Comercial Utilizada na Clarificação de Óleo Vegetal. *Cerâmica Industrial*, São Carlos, SP, v. 8, n. 1, Jan./Fev., p. 43-45
<http://www.ceramicaindustrial.org.br>
- 2002 Porto, L.M. 2002. (The evolution of chemical engineering – perspectives and new challenges) A Evolução da Engenharia Química - Perspectivas e Novos Desafios. *REGEQ – Revista de Graduação da Engenharia Química*, São Paulo, SP, v. 5, n. 10, 2002. Also available on line at
<http://www.hottopos.com/regeq10/luismar.htm>
- Foletto, E.L.; Alves, C.C.A.; Porto, L.M. 2002. (Clarification of cotton oil using a commercial recycled clay) Clarificação de Óleo de Algodão Utilizando uma Argila Comercial Descartada Reciclada. *Revista de Estudos Ambientais*, Blumenau, SC, v. 3, n. 2 and 3, p. 110-113
- Porto, L.M.; Butt, J.B. 2002. Deactivation Kinetic Parameters of Nickel Sulfur Poisoning during Benzene Hydrogenation. *Industrial & Engineering Chemical Research*, no. 22, vol. 41:5420-5426, USA
<http://dx.doi.org/10.1021/ie020127s>
- Foletto, E.L.; Valentin, A.; Probst, L.F.D.; Porto, L.M. 2002. Gas-Phase Beta-Pinene Isomerization over Acid-Activated Bentonite. *Latin American Applied Research*, n. 2, 32:141-144. Bahía Blanca, Argentina
[http://www.laar.uns.edu.ar/indexes/artic_v3202/32_\(2002\)_141_144.pdf](http://www.laar.uns.edu.ar/indexes/artic_v3202/32_(2002)_141_144.pdf)
- Foletto, E.L.; Volzone, C.; Porto, L.M. 2002. Performance of an Argentine Acid-Activated Bentonite in the Bleaching of Soybean Oil. *Brazilian Journal of Chemical Engineering*, v. 20, n. 2, p. 139-145, São Paulo, SP
doi: 10.1590/S0104-66322003000200007
- Foletto, E.L.; Volzone, C.; Alves, R.W.; Porto, L.M. 2002. Use of the Acid Clay as Discoloring Agent. *Acta Ambiental Catarinense*, v. 1, n. 1, p. 69-76, Chapecó, SC
- Foletto, E.L.; Alves, C.C.A.; Sganzerla, L.R.; Porto, L.M. 2002. Regeneration and Utilization of Spent Bleaching Clay. *Latin American Applied Research*, n. 2, 32:205-208. Bahía Blanca, Argentina
[http://www.laar.uns.edu.ar/indexes/artic_v3202/32_\(2002\)_205_208.pdf](http://www.laar.uns.edu.ar/indexes/artic_v3202/32_(2002)_205_208.pdf)
- 2001 Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2001. (Influence of the type and concentration of the used acid on the activation of bentonite clays)

- Influência do Tipo de Ácido Usado e da sua Concentração na Ativação de uma Argila Bentonítica. *Cerâmica*, v. 47, n. 303, p. 208-211. São Paulo, SP
<http://www.scielo.br/pdf/ce/v47n304/7814.pdf>
- Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2001. (Development and characterization of chemically activated clay materials for their use in the clarification of vegetable oils) Obtenção e Caracterização de Materiais Argilosos Quimicamente Ativados para Utilização no Descoramento de Óleo Vegetal. *Materials Research*, v. 4, n. 3, p. 211-215. São Carlos, SP
<http://www.scielo.br/pdf/mr/v4n3/a12v04n3.pdf>
- 1999 Porto, L.M.; Butt, J.B. 1999. Magnetic Moment Measurements of a Poisoned Nickel Catalyst. *Latin American Applied Research*, v. 29, p. 51-55
<http://www.laar.uns.edu.ar>
- 1998 Porto, L.M.; Ogeda, R.H. 1998. Java Applets for Chemical Reaction Engineering. *Computer Applications in Engineering Education*, v. 6, n. 2, p. 67-77
<http://www3.interscience.wiley.com/cgi-bin/issuetoc?ID=38673>
- 1989 Schmal, M.; Reinhardt, A.; Porto, L.M.; Losch, W. 1989. Deactivated Iron Catalyst in the Fischer-Tropsch Synthesis. *Catalysis Today*, v. 5, n. 4, p. 411-422. Amsterdam, The Netherlands
<http://www.sciencedirect.com>

Full Papers Presented in Conferences and Meetings

- 2008 Soares, C.; Monteiro, H.C.; Porto, L.M.; 2008. Computational Fluid Dynamics and Flow Patterns Evaluation in Stented Artery. XVII Congresso Brasileiro de Engenharia Química – COBEQ'2008, Recife, PE
- Recouvreux, D.O.S.; Rambo, C.R.; Carminatti, C.A.; Porto, L.M.; Antônio, R.V., 2008. (Nanocomposites made from bacterial cellulose and hydroxyapatite for applications in tissue engineering and regenerative medicine) Nanocompósito de Celulose Bacteriana e Hidroxiapatita para Aplicações em Engenharia de Tecidos e Medicina Regenerativa. XVII Congresso Brasileiro de Engenharia Química – COBEQ'2008, Recife, PE
- Berti, F.V.; Oliveira, I.L.; Dias, P.F.; Porto, L.M.; 2008. (A mathematical model to represent the effect of extracts from *Aloe vera* on the *in vivo* formation of blood vessels) Modelo Matemático Representativo do Efeito dos Extratos e Compostos Isolados de *Aloe vera* na Formação de Vasos Sangüíneos *in vivo*. XVII Congresso Brasileiro de Engenharia Química – COBEQ'2008, Recife, PE, Brazil
- Becker, S.; Soares, C.; Porto, L.M.; 2008. Structural modeling and identification of catalytic residues in the hmsR protein of *Chromobacterium violaceum*) Modelagem Estrutural e Identificação de Resíduos Catalíticos na Proteína hmsR de *Chromobacterium violaceum*. XVII Congresso Brasileiro de Engenharia Química –

COBEQ'2008, Recife, PE

2007

Colpani, G.L.; Recouvreux, D.O.S.; Carminatti, C.A.; Antônio, R.V.; Porto, L.M. 2007. (Structural model of domains a and b of the bcsa protein of *Chromobacterium violaceum*) Modelagem estrutural dos domínios a e b da proteína bcsa de *Chromobacterium violaceum*. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, pen0581

Sá, D.M.A.; Recouvreux, D.O.S.; Porto, L.M.; Antônio, R.V. 2007. (Study of the production of cellulose by *Gluconacetobacter xylinus* and *Chromobacterium violaceum*) Estudo da produção de celulose por *Gluconacetobacter xylinus* e *Chromobacterium violaceum*. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, pfe0596

Serpa, G.; Tassone, F.; Porto, L.M. 2007. Towards understanding enhancement of *fmr1* transcription. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, emf0629

Bressan, C.R.; Pedrosa, R.C.; Antônio, R.V.; Porto, L.M. 2007. (Cloning of the *phac* gene of poly(hydroxyalkanoate) synthase of *Chromobacterium violaceum*, *phac*, for the production of biopolymers in recombinant *Escherichia coli*). Clonagem do gene da enzima polihidroxialcanoato sintase (*phac*) de *Chromobacterium violaceum* para produção de biopolímeros em *Escherichia coli* recombinante. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, bmb0588

Berti, F.V.; Pértile, R.A.N.; Siqueira Júnior, J.M.; Valle, R.M.R.; Dias, P.F.; Porto, L.M. 2007. (*In vitro* study of the antitumoral effect of aloin in a melanoma cell culture) Estudo *in vitro* do efeito anti-tumoral da aloína em cultura de células de melanoma. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, cca0450

Carminatti, C.A.; Colpani, G.L.; Recouvreux, D.O.S.; Antônio, R.V.; Porto, L.M. 2007. (Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) by *Chromobacterium violaceum* from glucose and propionate) Produção de poli(3-hidroxibutirato-co-3-hidroxivalerato) por *Chromobacterium violaceum* a partir de glicose e propionato. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, pfe0576

Recouvreux, D.O.S.; Sá, D.M.A.; Carminatti, C.A.; Antônio, R.V.; Porto, L.M.; Cruz Jr., A. 2007. (Production of bacterial cellulose by *Gluconacetobacter xylinus* ATCC 23769 from a biodiesel residue) Produção de celulose bacteriana por *Gluconacetobacter xylinus* ATCC 23769 a partir de resíduo do biodiesel. XVI Simpósio Nacional de Bioprocessos – SINAIFERM'2007, Curitiba. CD-ROM, pfe0595

Becker, S.; Recouvreux, D.O.S.; Porto, L.M. 2007. (An operon in *Chromobacterium violaceum* related to the synthesis of poly-(beta-1,6-N-acetyl-D-glucosamine) Operon em *Chromobacterium violaceum* relacionado à síntese de polissacarídeo poli-(beta-1,6-N-acetil-D-glucosamina. XVI Simpósio Nacional de Bioprocessos –

- SINAFERM'2007, Curitiba. CD-ROM, bmb0420
- Rodrigues, A.L.; Lima, A.O.S.; Antônio, R.V.; Porto, L.M. 2007. (Evaluation of the instability in the production of violacein by an *Escherichia coli* expressing the operon *vioABCDE* of *Chromobacterium violaceum*) Avaliação da instabilidade da produção de violaceína em *Escherichia coli* expressando o operon *vioABCDE* de *Chromobacterium violaceum*. XVI Simpósio Nacional de Bioprocessos – SINAFERM'2007, Curitiba. CD-ROM, bmb0585
- Simão, E.; Porto, L.M. 2007. Qualitative analysis of genetic regulatory networks: application to the biosynthesis of tryptophan regulatory system in *E. coli*. 2007. XVI Simpósio Nacional de Bioprocessos – SINAFERM'2007, Curitiba. CD-ROM, bmb0590
- Pértile, R.A.N.; Berti, F.V.; Siqueira Júnior, J.M.; Rambo, C.R.; Valle, R.M.R.; Porto, L.M. 2007. (Interaction of cell cultures with biopolymeric scaffolds for biomedical applications) Interação de culturas celulares com suportes biopoliméricos para aplicações biomédicas. XVI Simpósio Nacional de Bioprocessos – SINAFERM'2007, Curitiba. CD-ROM, cca0593
- Georg, I.C.; Maliska, C.R.; Porto, L.M. 2007. Evaluation of a sub-grid model in a turbulent circulating fluidized bed. 19th Congress of Mechanical Engineering, 2007, Brasília, DF. COBEM'2007, v. 1. p. 1993
- 2006 Serpa, G.; Castro, J.V.; Tostes, P.M.; Porto, L.M. 2006. (Metabolic flux analysis for the evaluation of the FMRP protein expression regulation) Análise de Fluxos Metabólicos para Avaliação da Regulação da Expressão da Proteína FMRP. XVI Congresso Brasileiro de Engenharia Química, Santos, SP. COBEQ'2006. T1534
- Muccillo, D.; Castro, J.V.; Porto, L.M. 2006. (Metabolic flux sensitivity analysis aimed to improve hydrogen bacterial production by the genus *Clostridium*) Análise de Sensibilidade de Fluxo Metabólico para o Aumento da Produção de Hidrogênio por Bactérias do Gênero *Clostridium*. XVI Congresso Brasileiro de Engenharia Química, Santos, SP. COBEQ'2006. T1459
- Berti, F.V.; Campestrini, L.H.; Dias, P.F; Pereira, R.M.V.; Porto, L.M. 2006. (Evaluation of vasculogenesis agents in biopolymeric films for tissue engineering) Avaliação de Agentes Indutores de Vascularização em Filmes de Biopolímeros para Engenharia de Tecidos. XVI Congresso Brasileiro de Engenharia Química, Santos, SP. COBEQ'2006. T1431
- 2005 Miqueleto, A.P.; Codebello, C.D.; Recouvreux, D.O.S.; Carminatti, C.A.; Antônio, R.V.; Porto, L.M.; Rodrigues, J.A.D. 2005. (Characterization of EPS from batch anaerobic reactors operated in tandem under different carbon sources) Caracterização de EPS obtidos em Reatores Anaeróbios Operados em Bateladas Seqüenciais Tratando Diferentes Fontes de Carbono. XV Simpósio Nacional de Bioprocessos – SINAFERM'2005, Recife, PE
- Recouvreux, D.O.S.; Carminatti, C.A.; Pitlovanciv, A.K.; Araújo, D.G.; Miqueleto, A.P.;

- Oliveira, I.L.; Antônio, R.V.; Porto, L.M. 2005. (Evidences of the presence of cellulose in the biofilm formed by the beta-proteobacterium *Chromobacterium violaceum*) Evidências da Presença de Celulose no Biofilme formado pela Beta-proteobactéria *Chromobacterium violaceum*. XV Simpósio Nacional de Bioprocessos – SINAFERM'2005, Recife, PE
- Recouvreux, D.O.S.; Carminatti, C.A.; Pitlovanciv, A.K.; Araújo, D.G; Miqueleto, A.P.; Oliveira, I.L.; Antônio, R.V.; Porto, L.M. 2005. (Identification of the *bcs* operon of *Chromobacterium violaceum* by comparative genomics) Identificação do Operon *bcs* em *Chromobacterium violaceum* por genômica comparativa. XV Simpósio Nacional de Bioprocessos – SINAFERM'2005, Recife, PE
- Carminatti, C.A.; Petrus, J.C.C.; Porto, L.M. 2005. (Lactase-PVDF interaction in the hydrolysis of milk whey in a membrane reactor) Interação Lactase-PVDF na Hidrólise do Soro de Leite em Reator a Membrana. XV Simpósio Nacional de Bioprocessos – SINAFERM'2005, Recife, PE
- Oliveira, I.L.; Carminatti, C.A.; Recouvreux, D.O.S.; Porto, L.M. 2005. (Tryptophan biosynthesis gene organization in *Chromobacterium violaceum*) Organização dos Genes de Biossíntese do Triptofano em *Chromobacterium violaceum*. XV Simpósio Nacional de Bioprocessos – SINAFERM'2005, Recife, PE
- 2004 Veiga, D.F.; Cecconello, P.S.; de Lucca, J.E.; Porto, L.M. 2004. (Extension of the software IsaViz for the construction of metabolic and regulatory networks) Extensão do Software IsaViz para a Construção de Vias Metabólicas e Regulatórias. XV Congresso Brasileiro de Engenharia Química, Curitiba, PR. A Engenharia Química e o Crescimento Sustentável. CD-ROM Trabalhos completos, 8 pp.
- Oliveira, C.G.; Piemolin, L.T.; Antônio, R.V.; Porto, L.M. 2004. (Regulatory mechanism of violacein production by quorum sensing signaling in *Chromobacterium violaceum*) Mecanismo de Regulação da Produção de Violaceína através do Sistema de Sinalização Quorum Sensing em *Chromobacterium violaceum*. XV Congresso Brasileiro de Engenharia Química, Curitiba, PR. A Engenharia Química e o Crescimento Sustentável. CD-ROM Trabalhos completos, 8 pp.
- Piemolini, L.T.; Rössle, S.C.S.; Bisch, P.M.; Antônio, R.V.; Porto, L.M. 2004. (Point mutation of PHA synthase of *Chromobacterium violaceum* from a structural model of the protein) Mutação Sítio Específica da PHA Sintase de *Chromobacterium violaceum* a partir da Modelagem Estrutural da Proteína. XV Congresso Brasileiro de Engenharia Química, Curitiba, PR. A Engenharia Química e o Crescimento Sustentável. CD-ROM Trabalhos completos, 7 pp.
- 2003 Oliveira, C.G.; Sganzerla, L.R.; Porto, L.M.; Antônio, R.V. 2003. (Kinetics of cell growth and violacein production by *Chromobacterium violaceum* using glucose and glycerol as carbon sources) Cinética do Crescimento Celular e Produção de Violaceína por *Chromobacterium violaceum* em Glicose e Glicerol como Fontes de Carbono. XIV Simpósio Nacional de Fermentações - SINAFERM'2003, Florianópolis, SC. CD-ROM, 7 pp.

- Carminatti, C.A.; Petrus, J.C.; Porto, L.M. 2003. (Performance of membrane and batch reactors for the enzymatic hydrolysis of lactose) Desempenho de reatores à membrana e em batelada na hidrólise enzimática da lactose. 4º Congresso Ibero-Americano em Ciência e Tecnologia de Membranas, 2003, Florianópolis, SC. 4º CITEM. CD-ROM, p. 286-291
- Carminatti, C.A.; Petrus, J.C.; Porto, L.M. 2003. (Enzymatic hydrolysis of lactose in a membrane reactor) Hidrólise Enzimática da Lactose em Reator a Membrana. XIV Simpósio Nacional de Fermentações – SINAFERM'2003, Florianópolis, SC. T387, 6 pp.
- Piemolini, L.T.; Coral, J.T.; Porto, L.M.; Antônio, R.V. 2003. (Identification of PHA synthase sites for the study of polyhydroxyalkanoates chain length control) Identificação de Sítios de PHA Sintases para Estudos de Controle de Comprimento de Cadeia de Polihidroxialcanoatos. XIV Simpósio Nacional de Fermentações – SINAFERM'2003, 2003, Florianópolis, SC. CD-ROM, 7 pp.
- Simão, E.; Riso, A.V.; Rezende, R.V.P.; Porto, L.M. 2003. (Modeling of metabolic pathways with hybrid Petri nets) Modelagem de Vias Metabólicas com Redes de Petri Híbridas. XIV Simpósio Nacional de Fermentações – SINAFERM'2003, Florianópolis, SC. Anais do XIV Simpósio Nacional de Fermentações. CD-ROM, 7 pp
- Georg, I. C.; Maliska, C.R.; Porto, L.M. 2003. (Tridimensional modeling and simulation of a fluid catalytic cracking reactor) Modelagem e Simulação Tridimensional de um Reator de Craqueamento Catalítico em Leito Fluidizado - Formação de Clusters. 2º Congresso Brasileiro de P&D em Petróleo e Gás, Rio de Janeiro, RJ, 6 pp.
- Veiga, D.F.; Porto, L.M. 2003. (XML schema models for genomics information representation) Modelos XML Schema para Representação de Informação Genômica. XIV Simpósio Nacional de Fermentações - SINAFERM'2003, Florianópolis, SC. CD-ROM, 6 pp.
- Caris, M.E.; Porto, L.M.; Hauck, P.; Antônio, R.V. 2003. (Production of Desoxyviolacein by *Chromobacterium violaceum*) Produção de Desoxiviolaceína pela *Chromobacterium violaceum*. XIV Simpósio Nacional de Fermentações - SINAFERM'2003, Florianópolis, SC. CD-ROM, 6 pp.
- Porto, L.M.; Veiga, D.F. 2003. XML Shema Representation as a Way to Interchange and Customize Genomic and Metabolic Models. 1st International Conference on Bioinformatics and Computational Biology, ICoBiCoBi'2003, Ribeirão Preto, SP. <http://www.vision.ime.usp.br/~cesar/programa/pdf/60.pdf>
- 2002 Krauss, V.A.; Porto, L.M.; Pinto, L.T. 2002. (Desorption study of n-butylamine on a FCC catalyst by DSC and TGA) Estudo de Dessorção de n-Butilamina em Catalisador de FCC por DSC e TGA. XIV Congresso Brasileiro de Engenharia Química – COBEQ'2002, Natal, RN

- Porto, L.M. 2002. Neurogenomics *in silico*: post-genome bioinformatics tools) Neurogenômica *in silico*: Ferramentas de Bioinformática Pós-Genômica. XX Congresso Brasileiro de Neurologia, Florianópolis. Arquivos de Neuro-Psiquiatria. São Paulo, SP: Academia Brasileira de Neurologia, v. 60, p. 159
- Oliveira, C.G.; Foletto, E.L.; Souza, C.D.D.; Alves, C.A.A.; Porto, L.M. 2002. (Kinetic modeling and simulation of an industrial clarification process of vegetable oils) Modelagem Cinética e Simulação do Processo Industrial de Clarificação de Óleos Vegetais, XIV Congresso Brasileiro de Engenharia Química – COBEQ'2002, Natal, RN
- Foletto, E.L.; Valentini, A.; Probst, L.F.D.; Porto, L.M. 2002. (Recovering essential oils using clays as catalysts) Obtenção de Óleos Essenciais Usando uma Argila como Catalisador. 46º Congresso Brasileiro de Cerâmica, São Paulo, SP
- Porto, L.M. 2002. (Potential and techniques of biological engineering) Potencialidades e Técnicas da Engenharia Biológica. Anais, XIV Congresso Brasileiro de Engenharia Química, Natal, RN, 8 pp.
- Porto, L.M.; Alves, C.C.A.; Foletto, E.L.; Souza, C.D.D.; Oliveira, C.G. 2002. (Reuse of a commercial discarded clay for the clarification of oil) Reutilização de Argila Comercial Descartada na Clarificação de Óleo. XIV Congresso Brasileiro de Engenharia Química – COBEQ'2002, Natal, RN, 8 pp.
- 2001 Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2001. Castor, Cottonseed, and soybean oil bleaching by activated bentonites. 3rd International Symposium on Activated Clays, 2001, Bahía Blanca. 2001. A Clay Odyssey. Amsterdam: Elsevier Science B.V., p. 603-610
- Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2001. Castor, Cottonseed, and Soybean Oil Bleaching by Activated Bentonites. Abstracts of the 12th International Clay Conference'2001- A Clay Odyssey' and 3rd International Symposium on Activated Clays, 3rd International Symposium on Activated Clays, Bahía Blanca, Argentina, p. 276-283
- Foletto, E.L.; Valentini, A.; Probst, L.F.D.; Porto, L.M. 2001. (Isomerization kinetics of beta-pinene in gas phase) Cinética da Isomerização do Beta-Pineno em Fase Gasosa. Anais do 11º Congresso Brasileiro de Catálise e 1º Congresso de Catálise do Mercosul, Bento Gonçalves, RS, p. 1090-1093
- Foletto, E.L.; Volzone, C.; Angiolleto, E.; Porto, L.M. 2001. (Structural destruction of a bentonite by acid attack quantified by thermogravimetric analysis) Destruição Estrutural de uma Bentonita por Ataque Ácido Quantificada por Análise Termogravimétrica. Anais, III Congresso Brasileiro de Análise Térmica e Calorimetria, Poços de Caldas, MG
- Oliveira, C.G.; Foletto, E.L.; Alves, C.C.A.; Milanez, H.; Porto, L.M. 2001. (Influence of the presence of humidity in a adsorbent material in the kinetics of clarification of soybean oil) Influência da Presença de Umidade em um Material Adsorvente na

- Cinética da Clarificação do Óleo de Soja. CD-ROM, 45º Congresso Brasileiro de Cerâmica, Florianópolis, SC, 9 pp.
- Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2001. (Structural properties of two bentonites after activation treatment with HCl) Propriedade Estrutural de Duas Bentonitas Após Ativação com HCl - Clarificação de Óleo de Algodão. CD-ROM, 45º Congresso Brasileiro de Cerâmica, Florianópolis, SC
- Foletto, E.L.; Alves, C.C.A.; Porto, L.M. 2001. (Regeneration of a commercial clay used in the refining vegetable oil industry and its reuse for the clarification of soybean oil) Regeneração de uma Argila Comercial Utilizada na Indústria de Refino de Óleos Vegetais e sua Reutilização na Clarificação de Óleo de Soja. CD-ROM, 45º Congresso Brasileiro de Cerâmica, Florianópolis, SC
- 2000 Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2000. (Comparative analysis of acid activation of two clay materials with different mineralogical composition) Análise Comparativa da Ativação Ácida de Dois Materiais Argilosos com Diferentes Composições Mineralógicas. Actas, VI Jornadas Argentinas de Tratamiento de Minerales, Salta, Argentina, p. 43-48
- Foletto, E.L.; Morgado, A.F., Hotza, D.; Porto, L.M. 2000. (Characterization of two smectitic natural Argentinian clays by X-ray diffraction and infrared spectroscopy) Caracterização de Duas Argilas Naturais Esmectíticas Argentinas Através de Difração de Raios-X e Espectrometria de Infravermelho. 44º Congresso Brasileiro de Cerâmica, São Pedro, SP, CD-ROM
- Foletto, E.L.; Morgado, A.F.; Porto, L.M. 2000. (Determination of the cationic exchange capacity (CEC) of a clay mineral by the convencional Kjeldahl method) Determinação da Capacidade de Troca Catiônica (CTC) de Um Argilomineral Através do Método Convencional de Kjeldahl. 44º Congresso Brasileiro de Cerâmica, São Pedro, SP, CD-ROM
- Porto, L.M.; Foletto, E.L.; Morgado, A.F.; Hotza, D. 2000. (Study of the acid attack treatment in a smectitic Argentinian clay by X-ray diffraction and infrared spectroscopy) Estudo do Efeito do Ataque Ácido em uma Argila Esmectítica Argentina Através de Difração de Raios-X e Espectrometria de Infravermelho. 44º Congresso Brasileiro de Cerâmica, São Pedro, SP, CD-ROM
- Pitol Filho, L.; Becchi, D.; Porto, L.M.; Pinto, L.T. 2000. Evaluation of Equilibrium Models for Adsorption of n-Butylamine on Alumina. Anais de Trabalhos Apresentados, 2º Encontro Brasileiro sobre Adsorção, Florianópolis, SC, 241-247
- Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2000. (Structural modification of bentonites and their use as clarification agents) Modificação Estrutural de Bentonitas e sua Utilização como Agente Descorante. Jornadas SAM 2000, IV Coloquio Latinoamericano de Fractura y Fatiga (Jornadas SAM2000), Neuquén, Argentina, p. 1081-1086

- Zanotta, P.A.; Peruch, M.G.B.; Moreira, R.F.P.M.; Porto, L.M. 2000. (Pigment removal from textile effluents by adsorption) Remoção de Corantes de Efluentes Têxteis por Adsorção, Anais do 2º Encontro Brasileiro sobre Adsorção. Anais de Trabalhos Apresentados, Florianópolis, SC, p. 477-483
- Foletto, E.L.; Morgado, A.F.; Porto, L.M. 2000. (Use of the ammonia acetate method for the determination of cationic exchange of two smectitic clays) Utilização do Método do Acetato de Amônio para a Determinação da Capacidade de Troca Catiônica de Duas Argilas Esmeclíticas. 1º Congresso em Ciência de Materiais da Região Sul – SULMAT'2000, Joinville, SC, CD-ROM, p. 53-57
- 1999 Nunes Jr, M.L.; Soares, F.T.C.; Porto, L.M.; Zeggio, R.L.B.; Hotza, D. 1999. Methodology for global analysis of critical points: application in the dairy industry. Anais do Congresso, CD-ROM, 1st International Congress on Clean Technology Applied to Food Industries, UFSC/SBCTA, Florianópolis, SC
- 1998 Hotza, D.; Soares, F.T.C.; Abreu, A.C.; Nunes Jr, M.L.; Porto, L.M. 1998. (Application of the HACCP method integrated with a safety management system in laboratory and industrial processes) Aplicação do Método HACCP com Sistema de Gestão de Segurança em Processos Industriais e de Laboratório. Anais do 12º Congresso Brasileiro de Engenharia Química – COBEQ'1998, Porto Alegre, RS, CD-ROM, p. 416
- Soares, F.C.T.; Nunes Jr, M.L.; Abreu, A.C.; Porto, L.M.; Hotza, D. 1998. (GACCP: a system for environmental management). GACCP (Green Analysis and Critical Control Points): Um Sistema de Gestão Ambiental. II Encontro Nacional de Estudantes de Engenharia de Alimentos, Universidade Federal de Viçosa, Viçosa, MG, p. 44
- 1997 Porto, L.M.; Ogeda, R.H. 1997. (Teaching chemical reaction engineering using a catalytic deactivation system) Ensino de Reatores Químicos Sujeitos à Desativação Catalítica. ENPROMER'97, 1^{er} Congreso de Ingeniería de Procesos del Mercosur, Bahia Blanca, Argentina, p. 153-154
- Bringhenti, C.; Porto, L.M. 1997. (Studies of adsorption and desorption of n-butylamine by the microgravimetric method) Estudos de Adsorção e Dessorção de n-Butilamina pelo Método Microgravimétrico. XIII Congresso Regional de Iniciação Científica e Tecnológica em Engenharia – CRICTE'1997, Escola Politécnica da Pontifícia Universidade Católica, Porto Alegre, RS
- Porto, L.M.; Vedova, M.D.; Kuhnen, N.C. 1997. (Studies of acidic surfaces by microgravimetry) Estudos de Superfície Ácida por Microgravimetria. 9º CBCAT - Congresso Brasileiro de Catálise, Águas de Lindóia, SP, p. 373-380
- 1995 Porto, L.M.; Ogeda, R.H. 1995. (Analysis, modeling and simulation of fixed bed reactors under catalyst deactivation) Análise, Modelagem e Simulação de Reatores de Leito Fixo Sujeitos à Desativação Catalítica. 8º Seminário Brasileiro de Catálise, Nova Friburgo, R.J., v. 2, p. 404
- Porto, L.M.; Butt, J.B. 1995. (Effects of simultaneous deactivation by thiophene and

- n-propanethiol on the performance of a Nickel/Kieselguhr catalyst in the benzene hydrogenation) Efeitos da Desativação Simultânea por Tiofeno e n-Propanotiol sobre o Desempenho de um Catalisador de Níquel/Kieselguhr na Hidrogenação de Benzeno. 8º Seminário Brasileiro de Catálise, Nova Friburgo, R.J., 9 pp
- 1994 Porto, L.M. 1994. Individual and Simultaneous Poisoning by Thiophene and 1-Propanethiol of a Nickel/Kieselguhr Catalyst. Experiments and Simulations. 6th International Symposium on Catalyst Deactivation, Evanston, IL, USA

Presented Papers with Published Abstracts and/or Posters

- 2008 Recouvreux, D.O.S.; Carminatti, C.A.; Porto, L.M.; Antônio, R.V., 2008. Synthesis and Characterization of Bacterial Cellulose-Calcium Phosphate Biocomposites. 2nd French-Brazilian Meeting on Polymers. Florianópolis, SC
- Carminatti, C.A.; Recouvreux, D.O.S.; Porto, L.M.; Antônio, R.V., 2008. Production of Poly(3-Hidroxybutirate-co-3-Hidroxyvalerate) by *Chromobacterium violaceum* using Glucose as the sole Carbon Source. 2nd French-Brazilian Meeting on Polymers. Florianópolis, SC
- 2007 Carminatti, C.A.; Oliveira, I.L.; Recouvreux, D.O.S.; Antônio, R.V.; Porto, L.M. 2007. Anthranilate Synthase Subunits Organization in *Chromobacterium violaceum*. 3rd International Conference of the Brazilian Association for Bioinformatics and Computational Biology – X Meeting'2007, São Paulo, SP, Brazil. ISBN 978-85-60424-03-0, XP128
- Bressan, C.R.; Antônio, R.V.; Pedroza, R.C.; Porto, L.M. 2007. Structural and Functional Analysis of PHA Synthase (PhaC_{Cv}). 3rd International Conference of the Brazilian Association for Bioinformatics and Computational Biology – X Meeting'2007, São Paulo, SP. ISBN 978-85-60424-03-0, XP130
- Recouvreux, D.O.S.; Carminatti, C.A.; Colpani, G.; Rambo, C.R.; Porto, L.M.; Antônio, R.V. 2007. Allosteric Control of c-di-GMP in *Chromobacterium violaceum*. 3rd International Conference of the Brazilian Association for Bioinformatics and Computational Biology – X Meeting'2007, São Paulo, SP, Brazil. ISBN 978-85-60424-03-0, XP131
- Soares, C.; Oliveira, I.L.; Porto, L.M. 2007. Theoretical and Computational Modeling of Paclitaxel (Taxol®) Action on the Cell Cycle of Smooth Muscle Cells. 3rd International Conference of the Brazilian Association for Bioinformatics and Computational Biology – X Meeting'2007, São Paulo, SP, Brazil. ISBN 978-85-60424-03-0, XP73
- Oliveira, I.L.; Porto, L.M. 2007. Web Tools for Deterministic Simulation and Metabolic Control Analysis. 3rd International Conference of the Brazilian Association for Bioinformatics and Computational Biology – X Meeting'2007, São Paulo, SP, Brazil. ISBN 978-85-60424-03-0, XP129

- Porto, L.M.; Oliveira, I.L.; Soares, C. 2007. Combining Computational Hemodynamics with Systems Biology: A New Approach to Study Cardiovascular Diseases. 3rd International Conference of the Brazilian Association for Bioinformatics and Computational Biology – X Meeting'2007, São Paulo, SP, Brazil. ISBN 978-85-60424-03-0, XP132
- Porto, L.M.; Oliveira, I.L.; Soares, C. 2007. Integrating Systems Biology and Computational Fluid Dynamics to Study Cardiovascular Genomics. Clinical Cardiovascular Genomics Meeting. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA
- 2006 Carminatti, C.A.; Oliveira, I.L.; Colpani, G.L.; Recouvreux, D.O.S.; Antônio, R.V.; Porto, L.M. 2006. (Tryptophan biosynthesis by *Chromobacterium violaceum*: structural modeling of antranilate synthase subunits) Biossíntese do triptofano em *Chromobacterium violaceum*: modelagem estrutural das subunidades da enzima antranilato sintase. 58^a Reunião Anual da Sociedade Brasileira para o Progresso da Ciência, Florianópolis, SC
- Berti, F.V.; Campestrini, L.H.; Sá, D.M.A.; Porto, L.M.; Dias, P.F. 2006. (Aloin controlled release by polymeric films and its influence in the vasculogenesis process of *Gallus gallus domesticus*) Liberação de aloína por filmes poliméricos e análise de sua influência no processo de vasculogênese em *Gallus gallus domesticus*. 58^a Reunião Anual da Sociedade Brasileira para o Progresso da Ciência, Florianópolis, SC
- Bressan, C.R.; Porto, L.M. 2006. (*In silico* modeling and structural analysis of pha synthase enzyme (phac) of *Chromobacterium violaceum* ATCC 12472) Modelagem *in silico* e análise estrutural da enzima pha sintase (phac) de *Chromobacterium violaceum* ATCC 12472. 58^a Reunião Anual da Sociedade Brasileira para o Progresso da Ciência, Florianópolis, SC
- Pértile, R.A.N.; Raskin, S.; Teive, H.; Werneck, L.; Porto, L.M.; Ferrari, L.P. 2006. (Spinocerebral ataxia type 10: a molecular analysis report of four Brazilian patients) Ataxia espinocerebelar tipo 10: relato de quatro pacientes brasileiros com análise molecular. 58^a Reunião Anual da Sociedade Brasileira para o Progresso da Ciência, Florianópolis, SC
- Colpani, G.L.; Muccillo, D.; Porto, L.M. 2006. (A tridimensional structure of the enzyme alcohol dehydrogenase of *Clostridium acetobutylicum*) Obtenção da estrutura tridimensional da enzima álcool desidrogenase de *Clostridium acetobutylicum*. 58^a Reunião Anual da Sociedade Brasileira para o Progresso da Ciência, Florianópolis, SC
- Rodrigues, A.L.; Porto, L.M. 2006. A simple Perl script to find partially conserved restriction sites in DNA templates. 58^a Reunião Anual da Sociedade Brasileira para o Progresso da Ciência, Florianópolis, SC
- 2005 Rodrigues, A.L.; Recouvreux, D.O.S.; Carminatti, C.A.; Porto, L.M. 2005. Analysis of the

bcsZ Gene of *Chromobacterium violaceum*. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Carminatti, C.A.; Oliveira, I.L.; Recouvreur, D.O.S.; Porto, L.M. 2005. Analysis of Tryptophan Genes Structure in *Chromobacterium violaceum*. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Porto, L.M.; Goudel, A.M. 2005. Building Consistent Pathway/Genome Databases from Annotated Genomes using Pathway Tools. International Workshop on Genomic Databases, Rio de Janeiro, RJ. IWGD'2005, November, 10-11. Poster

Recouvreur, D.O.S.; Carminatti, C.A.; Oliveira, I.L.; Antônio, R.V.; Porto, L.M. 2005. Comparative Analysis of Genes Involved in Matrix Formation in *Chromobacterium violaceum* Biofilm. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Serpa, G.; Tostes, P.M.; Castro, J.V.; Porto, L.M. 2005. Comparative Genomics of the *fmr1* Gene Regulatory Sequence for Transcription Factor Binding Sites Analysis. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Goudel, A.M.; Porto, L.M. 2005. CvioCyc: a Pathway-Genome Database for *Chromobacterium violaceum*. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Foletto, E.L.; Volzone, C.; Porto, L.M. 2005. Effect of the acid attack in a clay mineral on the bleaching power of soybean oil. 2nd Mercosur Congress on Chemical Engineering, Rio de Janeiro, RJ.
<http://www.enpromer2005.eq.ufrj.br/~enpromer/lng/en/index.php>

Carminatti, C.A.; Recouvreur, D.O.S.; Oliveira, I.L.; Lima, A.O.S.; Porto, L.M. 2005. GEniS - An Integrative Genomic Engineering Information System. International Workshop on Genomic Databases – IWGD'2005, November 10-11, Rio de Janeiro, RJ

Oliveira, I.L.; Muccillo, D.; Recouvreur, D.O.S.; Castro, J.V.; Carminatti, C.A.; Porto, L.M. 2005. Genome Engineering of Hydrogen Production. First Brazilian Symposium on Petroleum Biotechnology, Natal, RN

Muccillo, D.; Oliveira, I.L.; Carminatti, C.A.; Petrus, J.C.C.; Recouvreur, D.O.S.; Castro, J.V.; Antônio, R.V.; Porto, L.M. 2005. Hydrogen from Single Species Biofilms for the Development of Bacterial Fuel Cells. First Brazilian Symposium on Petroleum Biotechnology, Natal, RN

Castro, J.V.; Serpa, G.; Porto, L.M.; 2005. Identification of Human TFBSs Using the *Drosophila melanogaster* *dfxr* Gene by *in silico* Footprinting. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Alves, C., Porto, L.M.; Foletto, E.L. 2005. (Influence of the type of solvent used in the

recover of solid adsorbents) Influência do tipo de solvente usado na recuperação de adsorvente sólido. XIV Congresso Nacional de Estudantes de Engenharia Química – CONEEQ'2005, Porto Alegre, RS

Mendes, E.; Oliveira, I.L.; Porto, L.M. 2005. MATLAB® Metabolic Flux Analysis Toolbox. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Muccillo, D.; Mendes, E.; Porto, L.M. 2005. Metabolic Flux Analysis as a Tool to Improve Hydrogen Production by Genetic Modified Bacterium. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Oliveira, I.L.; Carminatti, C.A.; Recouvreux, D.O.S.; Porto, L.M. 2005. Modeling and Dynamic Simulation of trp Operon in *Bacillus subtilis*. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Veiga, D.F.; Cecconello, P.S.; Oliveira, I.L.; de Lucca, J.E.; Porto, L.M. 2005. On Integrating Biological Databases by a Semantic Web Approach. International Workshop on Genomic Databases – IWGD'2005, November 10-11, Rio de Janeiro, RJ. Poster

Porto, L.M.; Oliveira, I.L.; Carminatti, C.A.; Rodrigues, A.L.; Recouvreux, D.O.S.; Antônio, R.V., Lima, A.O.S. 2005. SCgenet - Santa Catarina State Genomic Engineering Network: Sharing Data, Linking Projects, and Integrating People. International Workshop on Genomic Databases – IWGD'2005, November 10-11, Rio de Janeiro, RJ

Tostes, P. M.; Serpa, G.; Porto, L.M. 2005. Transcriptional Regulation Biological Model of the *fmr1* Gene. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

Oliveira, C.G.; Antônio, R.V.; Porto, L.M. 2005. *via*ABCD Operon Regulation by Quorum Sensing in *Chromobacterium violaceum*. 1st International Conference of the AB3C, X-Meeting'2005, October 4-7, Caxambu, MG

2004 Porto, L.M. 2004. (Applications of post-genome informatics in medicine) Aplicações da Bioinformática Pós-Genômica na Medicina. 1^o Ciclo de Palestras em Genética Humana, Florianópolis, SC

Porto, L.M.; Serpa, G.; Queiroz, M.A.; Barbato, I.T. 2004. (Proteins of fragile-X: how alternative splicing and point mutations in the *fmr1* gene may affect the 3D structure and function of the FMRP protein) As proteínas do X-frágil: como o splicing alternativo e mutações pontuais no gene *fmr1* podem afetar a estrutura 3D e a função da proteína FMRP. 50^o Congresso Brasileiro de Genética, Florianópolis, SC

Piemolini, L.T.; do Vale, C.M.; Porto, L.M.; Antônio, R.V. 2004. Cloning and Heterologous Expression of the PHA Synthase Gene of *Chromobacterium violaceum*.

- XXXIII Reunião Anual da Sociedade Brasileira de Bioquímica e Biologia Molecular, Caxambu, MG. CD-ROM
- Queiroz, M.A.; Barbato, I.T.; Tassone, F.; Serpa, G.; Porto, L.M. 2004. (Study of 3 generations of fragile-X syndrome carriers by different molecular techniques) Estudo de 3 gerações de portadores da síndrome do X frágil por diferentes técnicas moleculares. 50º Congresso Brasileiro de Genética, Florianópolis, SC
- Recouvreux, D.O.S.; Pitlovanciv, A.K.; Araújo, D.G.; do Vale, C.M.; Carminatti, C.A.; Oliveira, I.L.; Antônio, R.V.; Porto, L.M. 2004. (Organization of the genes involved in the formation of biofilms by *Chromobacterium violaceum* reveals strategies for the formation of extracellular matrix) Organização dos genes envolvidos no desenvolvimento de biofilmes de *Chromobacterium violaceum* revela estratégias da formação da matriz extracelular. 50º Congresso Brasileiro de Genética, Florianópolis, SC
- Piemolini, L.T.; Rössle, S.C.S.; Bisch, P.M.; Antônio, R.V.; Porto, L.M. 2004. Study of the Active Site of PHA Synthase from a Structural Comparative Modeling Approach. XXXIII Reunião Anual da Sociedade Brasileira de Bioquímica e Biologia Molecular, Caxambu, MG. CD-ROM
- Barbato, I. T.; Queiroz, M.A.; Tassone, F., Serpa, G.; Porto, L.M.; 2004. (Use of immunocytochemistry for the diagnostics of fragile-X in Brazil) Utilização de imunocitoquímica no diagnóstico da síndrome do X frágil no Brasil. 50º Congresso Brasileiro de Genética. Florianópolis, SC
- 2003 Alves, C. T.; Jahn, S.L.; Porto, L.M.; Foletto, E.L. 2003. (Evaluation of the SiO₂/Al₂O₃ ratio influence on the color removal of sunflower oil) Avaliação da Influência da razão SiO₂/Al₂O₃ de um Adsorvente na Remoção de Cor do Óleo de Girassol. XIII Congresso Nacional de Estudantes de Engenharia Química – CONEEQ'2003, Maringá, PR, p. 79
- Pegoraro, P.R.; Jahn, S.L.; Sganzerla, L.R.; Porto, L.M.; Foletto, E.L. 2003. (Study of vegetable oil color removal: Langmuir isotherm and heat of adsorption) Estudos de Remoção de Cor de Óleo Vegetal: Isotherma de Langmuir e Calor de Adsorção. XIII Congresso Nacional de Estudantes de Engenharia Química – CONEEQ'2003, Maringá, PR. Anais de Resumos da Mostra de Iniciação Científica do XIII Congresso Nacional de Estudantes de Engenharia Química, p. 78
- Oliveira, C.G.; Sganzerla, L.R.; Porto, L.M.; Antônio, R.V. 2003. (Metabolic flux analysis of alternative pathways for the biosynthesis of violacein from the whole genome of *Chromobacterium violaceum*) Análise de Fluxo Metabólico de Vias Alternativas para a Biossíntese da Violaceína a partir dos Dados do Genoma da *Chromobacterium violaceum*. XIV Simpósio Nacional de Fermentações – SINAIFERM'2003, Florianópolis, SC
- 2002 Rodrigues, R.J.E.; Sganzerla, L.R.; Porto, L.M.; Foletto, E.L. 2002. (Determination of adsorption heat of pigments in soybean oil by a commercial adsorbent)

- Determinação do Calor Envolvido na Adsorção dos Pigmentos do Óleo de Soja sobre um Adsorbente Comercial (Poster), XVII Jornada Acadêmica Integrada, UFSM, 2-4 de outubro Santa Maria, RS
- 2001 Foletto, E.L.; Volzone, C.; Alves, C.C.A.; Souza, C.D.D.; Porto, L.M. 2001. (Castor oil clarification using modified Argentinian bentonites) Descoramento de Óleo de Rícino Utilizando Bentonitas Argentinas Modificadas (Poster), XLI Congresso Brasileiro de Química, Porto Alegre, RS
- Foletto, E.L.; Alves, C.C.A.; Souza, C.D.D.; Oliveira, C.G.; Porto, L.M. 2001. (Effect of calcination temperature in the recover of clarification power of a commercial clay adsorbent) Efeito da Temperatura de Calcinação na Recuperação do Poder Clarificante de Uma Argila Adsorbente Comercial. XLI Congresso Brasileiro de Química, Porto Alegre, RS
- Oliveira, C.G.; Souza, C.D.D.; Foletto, E.L.; Alves, C.C.A.; Porto, L.M. 2001. (Bleaching press effect during the filtration of soybean oil) Efeito Prensa de Clarificação Durante a Filtração do Óleo de Soja. XLI Congresso Brasileiro de Química, Porto Alegre, RS
- Souza, C.D.D.; Alves, C.C.A.; Oliveira, C.G.; Foletto, E.L.; Porto, L.M. 2001. (Reactivation of an adsorbent used in the vegetable oil refining industry) Reativação de Um Adsorbente Utilizado na Indústria de Refino de Óleos Vegetais. (Poster), XLI Congresso Brasileiro de Química, Porto Alegre, RS
- Sakai, R.; Moreira, A.G.; Foletto, E.L.; Morgado, A.F., Volzone, C.; Porto, L.M.; Toffoli, S.M.; Valenzuela-Díaz, F.R. 2001. (Sodium cationic exchange at high temperature in a smectic from Argentina) Troca Catiônica por Sódio, a Quente, em Argila Esmectítica Argentina. CD-ROM, 45º Congresso Brasileiro de Cerâmica, Florianópolis, SC
- 2000 Porto, L.M.; Krauss, V.A.; Pinto, L.T. 2000. (n-Butylamine adsorption on a Y-zeolite catalyst used in FCC units) Adsorção de n-Butilamina sobre um Catalisador Tipo Zeólita-Y utilizado em Unidades de FCC. Caderno de Resumos, III EBA – Encontro Brasileiro sobre Adsorção, Jaboatão dos Guararapes, PE, TR070, p. 91
- Foletto, E.L.; Morgado, A.F.; Angiolleto, E.; Porto, L.M. 2000. (Differential thermal analysis (DTA) and thermogravimetry (TG) of a smectitic clay mineral from Argentina) Análise Térmica Diferencial (DTA) e Termogravimetria (TG) em um Argilomineral Esmectítico da Argentina. Caderno de Resumos, 1st Pan-American and 2nd Brazilian Congress on Thermal Analysis and Calorimetry, Poços de Caldas, MG, p. 23
- Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2000. (Influence of the type and concentration of the used acid on the activation of bentonite clays) Influência do Tipo de Ácido Usado e da sua Concentração na Ativação de Uma Argila Bentonítica. Resumos, 14º Congresso Brasileiro de Engenharia e Ciência dos Materiais, São Pedro, SP, p. 72
- Foletto, E.L.; Volzone, C.; Morgado, A.F.; Porto, L.M. 2000. (Preparation of acid

- bentonites for use as clarification agents of soybean oil) Preparação de Bentonitas Ácidas para Uso no Descoramento de Óleo de Soja. Caderno de Resumos, III EBA – Encontro Brasileiro sobre Adsorção, Jaboatão dos Guararapes, PE, p. 32
- Valentini, A.; Foletto, E.L.; Porto, L.M.; Probst, L.F.D. 2000. (Beta-pinene isomerization catalyzed by an activated smectitic clay) Isomerização do beta-Pineno Catalisada por Argila Esmectítica Ativada. Livro de Resumos, 23ª Reunião Anual da Sociedade Brasileira de Química, Poços de Caldas, MG, CT026
- Oliveira, C.G.; Porto, L.M. 2000. (Adsorption kinetic model for clarification of soybean oil) Modelo Cinético de Adsorção para o Descoramento do Óleo de Soja. Caderno de Resumos, III EBA - Encontro Brasileiro sobre Adsorção, Jaboatão dos Guararapes, PE, p. 34
- 1999 Porto, L.M.; Ogeda, R.H. 1999. (Internet technology for monitoring and process control) A Tecnologia Internet no Monitoramento e Controle de Processos à Distância. Anais do II Congresso de Engenharia de Processos do MERCOSUL – ENPROMER'99, Florianópolis, SC
- Dal Pont, A.; Bagnara, F.; Porto, L.M. 1999. (Evaluation of the molecular interaction effects of adsorption and reaction on catalytic surfaces by the Monte Carlo method) Avaliação do Efeito de Interações Moleculares na Adsorção e Reação em Superfícies Catalíticas pelo Método Monte Carlo. Resumos do II Congresso de Engenharia de Processos do MERCOSUL –ENPROMER'99, Florianópolis, SC
- Zanotta, P.A.; Zardo, C.; Porto, L.M. 1999. (Bleaching kinetics of soybean oil) Cinética do Branqueamento do Óleo de Soja. Resumos do II Congresso de Engenharia de Processos do MERCOSUL – ENPROMER'99, Florianópolis, SC
- Nunes Jr, M.L.; Zeggio, R.B.; Soares, F.T.C.; Abreu, A.C.; Porto, L.M.; Hotza, D. 1999. (GACCP – A methodology for the global analysis of critical control points: application in the milk industry) GACCP - Uma Metodologia para Análise Global de Pontos Críticos de Controle: Aplicação em Indústria de Laticínios. Resumo dos Anais do Congresso, Primeiro Congresso Internacional de Tecnologia Limpa Aplicada ao Setor de Alimentos, UFSC, Florianópolis, SC
- 1998 Porto, L.M.; Butt, J.B. 1998. Co-Poisoning of a Supported Ni Catalyst by Thiophene and 1-Propanethiol: Fixed Bed Operation. ISCRE 15, 15th International Symposium on Chemical Reaction Engineering, Newport Beach, CA, USA
- Pitol Filho, L.; Becchi, D.; Bringhenti, C.; Porto, L.M.; Pinto, L.T. 1998. (Evaluation of equilibrium adsorption models for the adsorption of n-butylamine on alumina) Avaliação de Modelos de Equilíbrio para Adsorção de n-Butilamina sobre Alumina. Caderno de Resumos do II Encontro Brasileiro sobre Adsorção – ADSORÇÃO'98, Florianópolis, SC, p. 60
- Nunes Jr, M.L.; Abreu, A.C.; Soares, F.T.C.; Zeggio, R.B.; Porto, L.M.; Hotza, D. 1998. (GACCP - A software for management integration) GACCP - Software de Sistema

- Integrado de Gestão. Anais do VIII Seminário de Iniciação Científica da UFSC, VIII Seminário de Iniciação Científica da UFSC, Florianópolis, SC, p. 236
- Zeggio, R.B.; Abreu, A.C.; Soares, F.T.C.; Nunes Jr, M.L.; Porto, L.M.; Hotza, D. 1998. (GACCP - A software for global analysis of critical control points) GACCP - Um Software para Análise Global de Pontos Críticos de Controle. XVI CICTE – Congresso de Iniciação Científica e Tecnológica em Engenharia, São Carlos, SP, p. 405
- Zanotta, P.A.; Peruch, M.G.B.; Moreira, R.F.P.M.; Porto, L.M. 1998. (Removal of pigments from textile effluents by adsorption) Remoção de Corantes de Efluentes Têxteis por Adsorção. Caderno de Resumos do II Encontro Brasileiro sobre Adsorção – ADSORÇÃO'98, CPGENG-UFSC, Florianópolis, SC, p. 61
- Martins, M.C.; Porto, L.M. 1998. Pyridine and n-Butylamine Adsorption on Alumina and FCC Catalysts. Two Acid Strength Mode. Caderno de Resumos do II Encontro Brasileiro sobre Adsorção – ADSORÇÃO'98, CPGENG-UFSC, Florianópolis, SC, p. 62
- Porto, L.M. 1998. Adsorption Mechanism of Thiophene on Supported Metals. Caderno de Resumos do II Encontro Brasileiro sobre Adsorção – ADSORÇÃO'98, CPGENG-UFSC, Florianópolis, SC, p. 63
- Dal Pont, A.; Porto, L.M. 1998. (Monte Carlo simulation as a tool for the elucidation of adsorption mechanisms) Simulação Monte Carlo como Ferramenta na Elucidação de Mecanismos de Adsorção. Caderno de Resumos do II Encontro Brasileiro sobre Adsorção – ADSORÇÃO'98, CPGENG-UFSC, Florianópolis, SC, T64
- Nunes Jr, M.L.; Abreu, A.C.; Soares, F.T.C.; Zeggio, R.B.; Porto, L.M.; Hotza, D. 1998. (GACCP - A methodology for the analysis of critical control points) GACCP - Uma Metodologia para Análise Global de Pontos Críticos de Controle. Anais da VI Semana de Pesquisa da UFSC, Florianópolis, SC, p. 132
- 1997 Porto, L.M.; Butt, J.B. 1997. Magnetic Moment Measurements of a Poisoned Nickel Catalyst. 1^{er} Congreso de Ingeniería de Procesos del Mercosur - ENPROMER'97, Bahia Blanca, Argentina, p. 363-364
- 1996 Vedova, M.D.; Porto, L.M.; Kuhnen, N.C. 1996. (Measuring acidity of gamma-alumina by microgravimetry) Medida de Acidez de gama-Alumina por Microgravimetria. Resumos do 1^o ENCAT – Encontro de Catálise do Nordeste, Natal, RN, p.19
- 1994 Ogeda, R.H.; Porto, L.M. 1994. (Effect of deactivation parameters on the performance of fixed bed reactors) Efeito dos Parâmetros de Desativação sobre o Desempenho de um Reator de Leito Fixo. Resumos da II Semana da Pesquisa da UFSC, Florianópolis, SC
- Porto, L.M.; Butt, J.B. 1994. (Poisoning of a commercial Nickel/Kieselguhr catalyst by sulfur compounds) Envenenamento por Compostos de Enxofre de um Catalisador Comercial de Níquel/Kieselguhr. Resumos da II Semana da Pesquisa da UFSC, Florianópolis, SC

- 1993 Porto, L.M.; and J. B. Butt. 1993. Co-Poisoning of a Nickel/Kieselguhr Catalyst. AIChE Annual Meeting, St. Louis, MO, USA
- 1992 Porto, L.M.; Butt, J.B. 1992. Co-Deactivation Studies in a Fixed Bed Reactor. AIChE Annual Meeting, Miami Beach, FL, USA
- 1991 Porto, L.M.; Butt, J.B. 1991. Initial and Induced Transients in a Fixed Bed Reactor. AIChE Annual Meeting, Los Angeles, CA, USA
- 1987 Schmal, M.; Reinhardt, A.; Porto, L.M.; Losch, W. 1987. (Fischer-Tropsch synthesis on a fused iron catalyst) Síntese de Fischer-Tropsch com Catalisador de Ferro Fundido. 4º Seminário Brasileiro de Catálise, Canela, RS, v. 2, p. 87

Other Publications

- 2008 Porto, L.M. Continuing Education (Educação Continuada). Invited contribution to the Section "Point of View" of the Brazilian Association of Chemical Engineering (ABEQ) Online Newsletter (Boletim Informativo, no. 172, Março 2008), http://www.abeq.org.br/Boletins/boletim_2008_marco.htm
- 2005 – date Porto, L.M. Blog do Luismar Porto. An internet blog with personal opinion on different academic and scientific subjects (in Portuguese), <http://luismarporto.blogspot.com/>
- 1998 Porto, L.M. 1998. (ISCRE 15 – Chemical reactors for the XXI Century) ISCRE 15 - Reatores Químicos para o Século XXI. Florianópolis, SC: Solução On-Line, Edition n. 28, Conselho Regional de Química da XII Região (On-line publication)
- 1997 Porto, L.M. 09/May/1997. Finding your clone on the Internet. Diário Catarinense, p. 2-2. Florianópolis, SC (Daily regional newspaper)
- 1996 Porto, L.M. 1996. (Chemistry on the Internet) A Química na Internet. Florianópolis: Solução On-Line, Edition n. 15, Conselho Regional de Química da XII Região (On-line publication)

Recent Invited Presentations in Meetings and Conferences

- 2007 Porto, L.M. 2007. Genomic engineering: integrating metabolic engineering to Bioinformatics and to omic sciences. Invited lecture for the round table "Metabolic Engineering: Current situation in Brazil and Perspectives", coordinated by Dr. Willibaldo Schmidell Neto, XVI Brazilian National Symposium of Bioprocesses – SINAFERM'2007), Curitiba, PR. <http://www.sinaferm2007.ufpr.br/english/programacao/programa.html>
- 2006 Porto, L.M. 2006. Frontiers of Chemical Engineering: Genomic Engineering Conference: Semana Temática UNISUL Contexto: Universalidade do Conhecimento.

- Universidade do Sul de Santa Catarina (UNISUL)
<http://www.unisul.br>
- Porto, L.M. 2006. Convergence and Technology Integration: New Challenges for the Chemical Engineering Profession.
Federal University of Santa Maria
<http://www.ufsm.br>
- Porto, L.M. 2006. Research at UFSC on Fragile X Syndrome.
Seminar: II Santa Catarina State Meeting on Fragile X Syndrome, Florianópolis, SC.
Santa Catarina State Fragile X Syndrome Association
<http://www.neurogene.floripa.com.br>
- Porto, L.M. 2006. Participation of the Chemical Industry in Agribusiness (Participação da Indústria Química no Agronegócio). IV Chemical and Food Engineering Academic Week.
Organized by Federal University of Santa Catarina
<http://www.ufsc.br>
- 2005 Porto, L.M. 2005. Understanding Human Disease Through Comparative Genomics.
Seminar: 1st South American Workshop on Genomics and Community Genetics, Florianópolis, SC.
Promoted by Institute Pasteur / Newlife
<http://www.geneticsandpopulationhealth.com>
- Porto, L.M. 2005. Impact of Genomic Engineering on the Production and Industrialization of Foods (Impactos da Engenharia Genômica na Produção e Industrialização de Alimentos). 3rd Symposium on Food Science (3^o Simpósio em Ciência de Alimentos)
Organized by the Brazilian Society of Food Science and Technology, Florianópolis, SC
- Porto, L.M. 2005. Mathematical Challenges of Genomic Engineering.
Seminar: Seminars on Biomathematics.
Department of Mathematics, UFSC, Florianópolis, SC
- Porto, L.M. 2005. Innovative Technologies in the Chemical Industry.
Invited Speaker: II Chemical Engineers' Paraná State Meeting.
UFPR, Curitiba, PR
Federal University of Paraná and Association of Professional Chemical Engineers of the State of Paraná
- Porto, L.M. 2005. New Frontiers in Chemical Engineering (in Portuguese). Engenharia Química.
Opening Conference: XI Brazilian Meeting on Chemical Engineering Education (ENBEQ)
Federal University of Campina Grande (UFCG).
Hotel Fazenda Portal de Gravatá, Gravatá, PE

- 2004 Porto, L.M. 2005. New Trends in Chemical Engineering. Closing Conference: 4th Symposium on Environmental and New Technologies. UNOCHAPECÓ, Chapecó, SC
- 2004 Porto, L.M. 2004. The Evolution of Chemical Engineering – Perspectives and New Challenges. Opening Conference: 3rd Symposium on Environmental and New Technologies. UNOCHAPECÓ, Chapecó, SC
- Porto, L.M. 2004. Opening the Gates for Genomic Engineering. Invited Speaker: 38th Brazilian Congress on Clinical Pathology – Clinical Medicine. Brazilian Society of Clinical Pathology – Clinical Medicine Centro de Convenções Centro Sul, Florianópolis, SC
- Porto, L.M. 2004. Genome Projects Impact on Biotechnology and Health. Seminar: Brazilian Genetics Society Seminar – Santa Catarina State Branch. UFSC, Florianópolis, SC

Invited short courses

- 2009 Short course on Genomic Engineering (4 hours) III Simposyum on Chemical Engineering State University of Maringá, Maringá, PR, Brazil
- 2008 Short course on Bacterial Genomic Engineering of Industrial and Energetic Interest (4 hours) 1st School of Chemical Engineering – COBEQ'2008 Brazilian Association of Chemical Engineers, Recife, PE, Brazil
- 2006 Short course on Biotechnology Applied to Agribusiness: The Role of the New Biotechnology. VI SAEQA, Federal University of Santa Catarina, Florianópolis, SC, Brazil

Supervised academic and scientific works

Post-Doctoral Supervision

- 2009 – date (Dr. Derce de Oliveira Souza Recouvreux) Celulose Bacteriana Tridimensional Vascularizada para Aplicações em Engenharia de Tecidos e Medicina Regenerativa.
 ➤ Three-dimensional vascularized bacterial cellulose for tissue engineering and regenerative medicine applications.
- 2008 (Dr. Cíntia Soares) Modelagem matemática e simulação numérica do escoamento em

estruturas vasculares por técnicas de fluidodinâmica computacional.

➤ Mathematical modeling and numerical simulation of flow in vascular structures by computational fluid dynamics techniques.

Doctoral (PhD) Supervision

- 2008 – date (Fernanda Vieira Berti) Desenvolvimento de arcabouços celularizados para aplicações em engenharia de tecidos.
 ➤ Development of cellularized scaffolds for tissue engineering applications.
- 2009 (Ana Paula Marzagão Casadei) Desenvolvimento de Rota de Processamento de Compósitos à Base de Poli(L-Ácido Láctico) e Hidroxiapatita (PLLA/HAp) para Fabricação de Scaffolds com Potencial de Utilização em Engenharia de Tecido Ósseo.
 ➤ Development of composite processing route based on poly(L-lactic acid and hydroxyapatite (PLLA/HAp) for the production of scaffolds of potential use in bone tissue engineering.
- 2008 (Claudimir Antonio Carminatti) Copolímeros de 3-hidroxibutirato-co-3-hidroxivalerato (PHBV) produzidos por *Chromobacterium violaceum*.
 ➤ Co-polymers of 3-hydroxybutyrate-co-3-hydroxyvalerate (PHBV) produced by *Chromobacterium violaceum*.
- (Itamar Leite de Oliveira) Análise Computacional de Redes Metabólicas com Regulação.
 ➤ Computational analysis of metabolic and regulatory networks.
- (Derce de Oliveira Souza Recouvreux) Desenvolvimento de Novos Biomateriais Baseados em Celulose Bacteriana para Aplicações Biomédicas e de Engenharia de Tecidos.
 ➤ Development of new biomaterials based on bacterial cellulose for biomedical and tissue engineering applications.
- (Gisele Serpa) Genômica do X-Frágil: Elementos de Regulação do Gene FMR1.
 ➤ Genomics of the fragile-X syndrome: Regulatory elements of the FMR1 gene.
- 2006 (Eugênio Simão) Redes de Regulação Gênica: Um Modelo Integrado da Regulação do Metabolismo do Triptofano em *Escherichia coli* sob o Formalismo de Redes de Petri.
 ➤ An integrated regulatory model of tryptophan metabolism of *Escherichia coli* under the formalism of Petri nets.
- 2005 (Ivan Carlos Georg) Modelagem e Simulação 3-D de um Reator de Craqueamento Catalítico (FCC): Modelo Cinético-Fluidotermodinâmico.
 ➤ Modeling and simulation of a 3D catalytic cracking reactor (FCC): a thermofluid-dynamic kinetic model.
- (Cristiana Gomes de Oliveira) Regulação Gênica da Biossíntese de Violaceína e Quorum sensing em *Chromobacterium violaceum*.
 ➤ Genic regulation of the biosynthesis of violacein and quorum sensing in *Chromobacterium violaceum*.
- 2001 (Edson Luiz Foletto) Preparação e Caracterização de Bentonitas Modificadas e sua

Utilização na Clarificação de Óleos Vegetais.

➤ Preparation and characterization of modified bentonites and their use in the clarification of vegetable oils.

Masters Supervision

2007 – date

(Tânia Souza de Liz) Determinação de parâmetros de interação de fatores de transcrição do gene FMR1.

➤ Determination of interaction parameters of transcription factors of the gene FMR1.

(Pricila Nicoladelli) Estudo de variantes (isoformas) da proteína do retardo mental da Síndrome do X Frágil (FMRP).

➤ Variant (isoform) study of the fragile- X syndrome mental retardation protein (FMRP).

(Filipe Araújo Teixeira Paulo) Obtenção de linhagens celulolíticas de *Escherichia coli* e avaliação destas quanto à sacarificação de celulose e derivados.

➤ Development of cellulolytic strains of *Escherichia coli* and their evaluation concerning the saccharification of cellulose and derived products.

(Julia de Vasconcellos Castro) Produção de biohidrogênio por *Clostridium acetobutylicum* a partir de glicerol.

➤ Biohydrogen production by *Clostridium acetobutylicum* from glycerol.

(Maria Cristina da Silva) Quantificação de mRNA e da proteína FMRP por técnicas de blotting

➤ Quantification of FMR1 mRNA and protein by blotting techniques.

2009

(Clayton Miguel Costa) Avaliação da osteointegração do copolímero PHBV obtido de *Chromobacterium violaceum*, em falha óssea produzida no fêmur de ratos Wistar

➤ Evaluation of the osteointegration of the copolymer PHBV obtained from *Chromobacterium violaceum* in femoral bone defects of Wistar rats.

2008

(Sidnei Becker) Análise Estrutural e Caracterização Funcional de Genes de Patogenicidade em *Chromobacterium violaceum*.

➤ Structural analysis and functional characterization of pathogenicity genes of *Chromobacterium violaceum*.

(Fernanda Vieira Berti) Efeito da aloína e do extrato do parênquima clorofiliano da *Aloe barbadensis* na viabilidade de células tumorais

➤ Effect of aloin and the chlorophyll parenchymal extract of *Aloe barbadensis* in the viability of tumoral cells.

(Vanessa Zanotto Gonçalves) Estudo de viabilidade técnica, econômica e financeira da extração e comercialização de um insumo farmacêutico à base de polissacarídeos de *Aloe barbadensis* Miller

➤ Study of the technical, economic and financial viability of the extraction and commercialization of a pharmaceutical ingredient based on polysaccharides of *Aloe*

- barbadensis* Miller.
- 2007 (Cléo Rodrigo Bressan) Clonagem gênica, expressão heteróloga e proposição de um modelo estrutural teórico para a polihidroxialcanoato sintase de *Chromobacterium violaceum*.
➤ Cloning, heterologous expression and proposition of a theoretical structural model of polyhydroxyalkonate synthase of *Chromobacterium violaceum*.
- (Renata Aparecida Nedel Pértile) Estudo *in vitro* da interação da linhagem de fibroblastos L929 com membranas de celulose bacteriana para aplicações em engenharia de tecidos.
➤ *In vitro* study of the interaction between fibroblast L929 strains and bacterial cellulose membranes for applications in tissue engineering.
- (Daniela Muccillo) Estudos *in silico* para a produção bacteriana de hidrogênio.
➤ *In silico* studies for the production of bacterial hydrogen.
- (André Luis Rodrigues) Produção Heteróloga de Violaceína por *Escherichia coli*.
➤ Heterologous production of violacein by *Escherichia coli*.
- 2006 (Ingrid Tremel Barbato) Avaliação de Estratégia Terapêutica pela Ingestão de um Conjunto de Aminoácidos em Portadores da Síndrome do X Frágil: Estudo Clínico e Neuroquímico
➤ Therapeutic evaluation of an aminoacid pool prescribed to fragile-X syndrome patients: a clinical and neurochemical study.
- (Mariana Arzua de Queiroz) Avaliação de Pré-Mutação por PCR na Síndrome do X Frágil.
➤ Evaluation of fragile-X syndrome pre-mutation by PCR.
- (Erlon Mendes) Uso Racional de Ferramentas de Engenharia Metabólica: Produção Bacteriana de Hidrogênio e de Violaceína.
➤ Rational use of metabolic engineering tools: bacterial production of hydrogen and violacein.
- 2005 (Artiva Maria Goudel) Utilização do Pacote Pathway-Tools para a cura de anotação genômica da *Chromobacterium violaceum* por via computacional.
➤ Use of Pathway-Tools package to curate the genomic annotation of *Chromobacterium violaceum*.
- 2004 (Luciani Tatsch Piemolini) Modelagem Estrutural da PHA Sintase de *Chromobacterium violaceum* para Estudos de Mutação Sitio-dirigida
➤ Structural modeling of the PHA synthase of *Chromobacterium violaceum* aiming site-directed point mutation.
- (Derce de Oliveira Souza Recouvreux) Produção de Celulose Bacteriana: Identificação do Operon *bsc* e Produção de Biofilme Celulósico por *Chromobacterium violaceum*.
➤ Production of bacterial cellulose: identification of the *bsc* operon and production of cellulosic biofilm by *Chromobacterium violaceum*.
- 2002 (Fernando Cesar T Soares) Desenvolvimento de um Sistema Adaptado para o Controle da Qualidade Ambiental e Aplicação a um Processo de Industrialização de Pescado.
➤ Development of an adapted system for environmental quality control and its

- application to and industrial fish process.
- (Carlos Darlan Duarte de Souza) Regeneração Térmica de Argilas Comerciais para Reutilização na Clarificação de Óleo de Soja.
➤ Thermal regeneration of commercial clays for their reuse in soybean oil clarification.
- 2001 (Claudimir Antonio Carminatti) Ensaio de Hidrólise Enzimática em Reator a Membrana Utilizando Beta-Galactosidase *Kluyveromyces lactis*.
➤ Enzymatic hydrolysis in membrane reactor using *Kluyveromyces lactis* beta-galactosidase.
- (Cristiana Gomes de Oliveira) Proposta de Modelagem Transiente para a Clarificação de Óleos Vegetais - Experimentos Cinéticos e Simulação do Processo Industrial.
➤ Transient modeling of the clarification of vegetable oils – Kinetic experiments, and industrial process simulation.
- 2000 (Vivian Alexandra Krauss) Estudos de Equilíbrio e Cinética de Adsorção de N-Butilamina em Catalisador de FCC baseado em Zeólita USY.
➤ Equilibrium and kinetics studies of the adsorption of N-butyl amine on FCC catalysts based on USY zeolite.
- 1999 (Patrícia Anselmo Zanotta) Ensaio Cinéticos de Branqueamento de Óleo de Soja.
➤ Kinetics of the soybean oil bleaching.
- 1998 (Rafael Hernandez Ogeda) Estudo de Utilização da Linguagem Java no Desenvolvimento de Applets e Aplicativos para Ensino e Pesquisa de Engenharia Química.
➤ Java language use for the development of applications and applets for chemical engineering education and research.
- 1996 (Márcio Dela Vedova) Estudos de Adsorção e Dessorção de Piridina e n-Butilamina pelo Método Gravimétrico
➤ Adsorption and desorption studies of pyridine and n-butyl amine by micro gravimetric method.
- Scientific Initiation Supervision**
- 2008 (Clederson Ferreira) Utilização de genes de *Chromobacterium violaceum* para otimização da produção de polihidroxialcanoatos (PHA).
➤ Use of *Chromobacterium violaceum* genes aiming polyhydroxyalkanoate (PHA) production optimization.
- (Diogo Marques de Abreu Sá) Estudo da Produção de Celulose por *Gluconacetobacter xylinus*.
➤ Production of cellulose by *Gluconacetobacter xylinus*.
- 2007 (Barbara Yuri de Oliveira) Engenharia de Tecidos Molecular: Desenvolvimento de Polímeros Biocompatíveis Produzidos por Via Bacteriana.
➤ Molecular tissue engineering: development of biocompatible polymers produced

- by bacteria.
- (Priscila Teruko Kondo) Engenharia de Tecidos Molecular: Desenvolvimento de Polímeros Biocompatíveis Produzidos por Via Bacteriana.
 ➤ Molecular tissue engineering: development of biocompatible polymers produced by bacteria.
- 2006 (Gustavo Lopes Colpani) Regulação por quorum sensing em *Chromobacterium violaceum*.
 ➤ Quorum sensing regulation in *Chromobacterium violaceum*.
- (Gabriel Vilella Kozakevich) Produção de biopolímeros para engenharia de tecidos molecular.
 ➤ Production of biopolymers for molecular tissue engineering applications.
- 2004 (Patrícia de Mello Tostes) Genômica comparativa do gene FMR1.
 ➤ Comparative genomics of the FMR1 gene.
- (Julia de Vasconcellos Castro) Estudo de modelos *Drosophila melanogaster* para a síndrome do X-frágil.
 ➤ Study of *Drosophila melanogaster* models of fragile-X syndrome.
- (Maria Tereza Nagel) Metabolic IsaViz: Representando Vias Metabólicas em Grafos RDF Customizados.
 ➤ Metabolic IsaViz: Representing metabolic pathways by customized RDF graphs.
- (Alexandre Vidal Riso) Modelagem e Criação de Objetos visando a Construção de um Organismo Genômico *in silico*.
 ➤ Modeling and creation of objects for the construction of an *in silico* genomic organism.
- 2003 (Ricardo Vicente de Paula Rezende) Análise de redes regulatórias - Programa BioBASES.
 ➤ Regulatory network analysis – BioBASES project.
- (Guilherme Adolfo Wiggers) Desenvolvimento de infra-estrutura computacional para apoio à bioinformática - Programa BioBASES.
 ➤ Development of bioinformatics infrastructure – BioBASES project.
- (Marianne Neves Manjavachi) Farmacogenômica - Programa BioBASES
 ➤ Pharmacogenomics – BioBASES project.
- (Suellen Pericolo) Farmacogenômica - Programa BioBASES
 ➤ Pharmacogenomics – BioBASES project.
- (Manoela Maria Bagestan) Farmacogenômica - Programa BioBASES
 ➤ Pharmacogenomics – BioBASES project.
- 2001 (Liliane Rinaldin Sganzerla) Recuperação de argilas para clarificação de óleos.
 ➤ Clay recovering for the clarification of oils.

- 1999 (Alex Dal Pont) Desenvolvimento de Simuladores para Reatores Químicos com Desativação Catalítica.
➤ Development of computer simulations for chemical reactors undergoing catalyst deactivation.
- (Claudiomira Zardo) Refino de Óleos Vegetais.
➤ Vegetable oil refining.
- 1998 (Cassiano BRINGHENTI) Caracterização da Heterogeneidade de Superfícies Catalíticas e Dinâmica de Desativação de Reatores de Leito Fixo.
➤ Characterization of catalytic surface heterogeneity and the dynamics of fixed bed reactor deactivation.
- (Martinho L Nunes Jr) Técnicas de HACCP.
➤ HACPP techniques.
- (André Carpalhoso de Abreu) Técnicas de HACCP.
➤ HACPP techniques.
- (Fernando Cesar T Soares) Técnicas de HACCP.
➤ HACPP techniques.
- 1997 (Marcelo Curtis Martins) Modelagem e simulação de processos de adsorção
➤ Modeling and simulation of adsorption processes.
- 1996 (André Schäfer) Preparação e Caracterização de Catalisadores Ácidos para Estudos de Superfícies Heterogêneas.
➤ Preparation and characterization of acid catalysts for the study of heterogeneous surfaces.
- 1995 (Leandro Trois Moreau) Estudos de Adsorção/Dessorção em um Sistema de Reação Microgravimétrico.
➤ Study of adsorption/desorption in a micro gravimetric reaction system.
- (Rafael Hernandes Ogeda) Sítios Ativos para Windows – Um Simulador de Reatores Químicos com Desativação Catalítica.
➤ Active sites for Windows – a simulator for chemical reactors undergoing deactivation.
- (Claudimir Antonio Carminatti) Suporte de Redes Locais.
➤ Support for local area networks (LANs).
- 1994 (Sandra Lorena Muñoz Rojas) Separação e Reação em Unidades de Ultrafiltração.
➤ Separation and reaction in ultrafiltration units.
- 1988 (Leonardo L. Cesconetto) Desenvolvimento, Adaptação e Implementação de Softwares para Solução de Problemas de Engenharia.
➤ Development, adaptation and implementation of software solutions for chemical engineering problems.

(Dachamir Hotza) Desenvolvimento, Adaptação e Implementação de Softwares para Solução de Problemas de Engenharia.

➤ Development, adaptation and implementation of software solutions for chemical engineering problems.

(Antônio J T Paro) Desenvolvimento, Adaptação e Implementação de Softwares para Solução de Problemas de Engenharia.

➤ Development, adaptation and implementation of software solutions for chemical engineering problems.

(Rogério R Marchiotti) Desenvolvimento, Adaptação e Implementação de Softwares para Solução de Problemas de Engenharia.

➤ Development, adaptation and implementation of software solutions for chemical engineering problems.

1997 (André Luiz Sardá) Adequação e Implementação de Programas, em Linguagem BASIC, para Simulação de Sistemas de Controle de Processos.

➤ Adaptation and implementation of software, in BASIC language, for the simulation of process control systems.

Undergraduate Projects Supervision

2005 (Débora Peterman) Estágio Supervisionado – Duas Rodas Industrial - Jaraguá do Sul, SC.
➤ Supervised field studies – Duas Rodas Industrial - Jaraguá do Sul, SC, Brazil.

2004 (Thiago Fernandes de Aquino) Estágio na Perdigão - Unidade Industrial de Videira - Rações e Óleos (UIViRO).
➤ Supervised field studies – Perdigão - Unidade Industrial de Videira - Rações e Óleos (UIViRO), Videira, SC, Brazil.

2003 (Alessandra Carboni) Estágio Supervisionado - MULTIBRÁS (Joinville, SC).
➤ Supervised field studies – MULTIBRÁS, Joinville, SC, Brazil.

(Thiago Rodrigo Fronza) Fertilizantes/Petroquímica - Ultrafertil S.A. (Estágio Supervisionado).

➤ Supervised field studies – Ultrafertil S.A. (Fertilizers/Petrochemicals).

2002 (Franci Daniele Prochnow) Relatório de Estágio HOFFMANN-LA ROCHE.
➤ Supervised field studies – HOFFMANN-LA ROCHE.

2000 (Regiane Machado Westphal) Controle de Qualidade - Laticínios – Fleischmann Royal Nabisco (Estágio Supervisionado).
➤ Supervised field studies – Quality control of dairy products – Fleischmann Royal Nabisco.

(Claudiomira Zardo) Produção - Óleo de soja – ADM Exportadora e Importadora S.A. (Estágio Supervisionado).

➤ Supervised field studies – Production of soybean oil – ADM Exportadora e Importadora S.A.

- 1999 (Leda Battestin) Controle de Qualidade - Embalagens – Perdigão Agroindustrial S.A. (Estágio Supervisionado).
➤ Supervised field studies – Quality control of packings – Perdigão Agroindustrial S.A.
- (Henry Galañena Brandolt) Controle de Qualidade - Tintas – WEG S.A. Divisão WEG Química (Estágio Supervisionado).
➤ Supervised field studies – Quality control of dyes – WEG S.A. Chemical Division.
- 1997 (Alexandre Keller Abalustro) Gerenciamento de Informações em Processos de Tratamento de Efluentes Líquidos Industriais baseado em um Modelo Cliente/Servidor – Porta Digital Internet Ltda. (Estágio Supervisionado).
➤ Supervised field studies – Information management in liquid effluents treatment process based on a client/server model – Porta Digital Internet Ltda.
- 1996 (Luiz Fernando Alves Viana Monteiro) Craqueamento Catalítico Fluido – Petrobrás REPLAN Paulínia (Estágio Supervisionado).
➤ Supervised field studies – Fluid catalytic cracking unit – Petrobrás REPLAN Paulínia, SP, Brazil.
- 1995 (Leandro Trois Moreau) Petrobrás - SIX (Estágio Supervisionado).
➤ Supervised field studies – Petrobrás – SIX.
- 1994 (Cíntia Fanchin) Petrobrás - REPAR (Estágio Supervisionado)
➤ Supervised field studies – Petrobrás – REPAR.
- 1998 (Sandra Zanette Massambani) Cia. Industrial de Plástico CIPLA (Estágio Supervisionado)
➤ Supervised field studies – Cia. Industrial de Plástico CIPLA.

Other Undergraduate Supervision

- 2003 (Liliane Rinaldin Sganzerla) Apoio a trabalhos de engenharia metabólica.
➤ Metabolic engineering studies.
- (Margot Erika Caris) Sinalização e controle do ciclo celular.
➤ Cell cycle signaling and regulation.
- 2002 (Renata Gonçalves Clemente) Apoio a trabalhos de engenharia metabólica - Programa BioBASES.
➤ Metabolic engineering studies.
- (Josiane Thomazi Coral) Monitoria da disciplina EQA 5341 Termodinâmica para Engenharia Química I.
➤ Teaching assistance for the course EQA 5341 Thermodynamics for Chemical Engineering I.
- 1997 (Krischimann P. de Arruda) Estágio Extracurricular.
➤ Extracurricular activities.

- (André L. Nogueira) Estágio Extracurricular.
➤ Extracurricular activities.
- 1987 (Marilene Mazzuchi Zepka) Estudo de Catalisadores Bimetálicos à Base de Níquel para a Reação de Metanação.
➤ Study of bimetallic nickel-based catalysts for methanation reaction.

Memberships

- 2005 – date Mentor of the Genetics Mentor Network, sponsored by The American Society of Human Genetics, The National Human Genome Research Institute, The Genetic Alliance, and the Genetics Society of Mentorship Program (Serve as volunteer)
- 2004 – date Member of the Brazilian Genetics Society (SBG)
- 2002 – date Member of the Brazilian Association of Chemical Engineers (ABEQ)
- 1981 – date Registered Chemical Engineer with the Professional Board of Engineers, Architects and Agronomists (CREA/SC)
- Registered Chemical Engineer with the Professional Board of Chemists, (CRQ/SC)

Patents, Products and Softwares

Patents

- 2009 Porto, L.M.; Recouvreux, D.O.S.; Rambo, C.R.; Dias, P.F.; Ribeiro-do-Vale, R.M.; Costa, C.M.; Koep, J.; Campestrini, L.H.; Berti, F.V.; Caminatti, C.A.; Antônio, R.V. Biocomposite material of bacterial cellulose and acemmanan (Patent, under revision).
- Porto, L.M.; Recouvreux, D.O.S.; Berti, F.V. Rambo, C.R.; Dias, P.F.; Ribeiro-do-Vale, R.M.; Antônio, R.V. 3D vascularized bacterial cellulose hydrogels (Patent, in preparation).
- 2008 Porto, L.M.; Recouvreux, D.O.S.; Rambo, C.R.; Carminatti, C.A.; Antônio, R.V.; Costa, C.M. Tridimensional macroscopic bodies of bacterial cellulose: Production process and their use (Patent pending - INPI no. 017080001145, 28/Jul/2008)

Commercial Products

- 1999 Porto, L.M.; DeMarchi, A.; Foletto, E.L. Rafinol® Colza. Industrial adsorbent for edible oil bleaching

Porto, L.M.; DeMarchi, A.; Foletto, E.L. Rafinol[®] Helyanthus. Industrial adsorbent for edible oil bleaching

Porto, L.M.; DeMarchi, A.; Foletto, E.L. Rafinol[®] Palma. Industrial adsorbent for edible oil bleaching

Porto, L.M.; DeMarchi, A.; Foletto, E.L. Rafinol[®] Soja. Industrial adsorbent for edible oil bleaching

Porto, L.M.; DeMarchi, A. Seed free. Industrial adsorbent for insect protection of vegetable oil seeds

Academic and Educational Softwares

2009 Oliveira, I.L.; Porto, L.M. GenSys Toolbox – A Genomic Engineering System Toolbox for Matlab[®] (Available upon request)

2007 Oliveira, I.L.; Porto, L.M. GenSys – Genomic Engineering Systems Biology Server <http://gensys.intelab.ufsc.br>

2006 Goudel, A.M.; Porto, L.M. CvioCyc – A pathway/genome database for *Chromabacterium violaceum* <http://cviocyc.intelab.ufsc.br>

2003 Veiga, D.F.; Porto, L.M. mIsaViz – Metabolic IsaViz, a biological representation system in RDF/XML <http://www.intelab.ufsc.br/misaviz>

Veiga, D.F.; Porto, L.M. RDFgenLib – Application library for mIsaViz <http://www.intelab.ufsc.br/misaviz>

1999 Ogeda, R.H.; Porto, L.M. Java Package Labore.math – An ODE solver for Java applications

Bagnara, F.; Porto, L.M. Monte Carlo Phase Transition Simulator. A C program to predict phase transition in a gas adsorption process

1998 Ogeda, R.H.; Porto, L.M. SemiBatch v.1.1 – Semi-batch chemical reactor simulator with cooling jacket (Simulador de reator semi-contínuo com camisa de resfriamento). Educational software

Ogeda, R.H.; Porto, L.M. CatalystDecay v.1.1 – CSTR fluidized reactor simulator for catalytic cracking of gasoil, with deactivating catalyst (Simulador de um reator CSTR fluidizado para o craqueamento catalítico em fase gasosa de gasóleo leve, com decaimento catalítico). Educational software

Ogeda, R.H.; Porto, L.M. AdiabaticBatch v.1.11 – Adiabatic reactor simulator for batch production of propylene glycol (Simulador de um reator adiabático em

	<p>batelada para produção de propilenoglicol). Educational software</p> <p>Ogeda, R.H.; Porto, L.M. OxydationSO₂ v.1.1 – Industrial SO₂ converter for sulfuric acid production (Simulador de um conversor industrial de SO₂ para a produção de ácido sulfúrico). Educational software</p> <p>Ogeda, R.H.; Porto, L.M. RLFDispAxial v.1.01 – Fixed bed isothermal steady state chemical reactor simulator with axial dispersion (Simulador de um reator de leito fixo com dispersão axial, para um modelo isotérmico estacionário). Educational software</p> <p>Ogeda, R.H.; Porto, L.M. SisEquacoesLineares v.1.1 – Java applet to solve systems of linear equations of any order (Applet Java para resolução de sistema de equações algébricas lineares de qualquer ordem). Educational software</p>
1995	<p>Ogeda, R.H.; Porto, L.M. Sites for Windows V. 1.0 – An MS-Windows program written in C++, with user friendly interface, to simulate catalyst deactivation in packed bed reactor. Educational/industrial software</p>

Computer Skills

Operating Systems Administration and Network Management

Unix systems: IBM AIX, SunOS, and Linux (Red Hat, Fedora, FreeBSD)
 MS-Windows: XP Professional, Windows 2000, Windows 2003, Windows Vista; Apache web server, DNS, SSH, server applications installation and configuration

Programming Languages

FORTRAN, C/C++, Visual Basic, MATLAB, Java

Scripting Languages (basic knowledge)

Bash, Perl, Python, JavaScript, PHP, XML

Database Systems

MySQL, phpMyAdmin

Computational Fluid Dynamics (basic knowledge)

COMSOL, CFX, OpenFOAM

Bioinformatics and Systems Biology software

dChip, R/Bioconductor, Matlab Bioinformatics Toolbox, Modeller, SwissPDBViewer, Web applications such as NCBI tools, rVista server, Genome Browsers, and KEGG databases

Web development and publishing software

Dreamweaver, FrontPage, Joomla, MediaWiki, TWiki

Desktop office, design and electronic forms applications

MS-Office 2007, Macromedia Fireworks, Adobe Acrobat Professional, EndNote (library and reference manager)

Professional References

Joe Da Costa, Ph.D.

Associate Director, Centre for Functional Nanomaterials
The University of Queensland
Brisbane, QLD 4072, Australia
Email: joedac@cheque.uq.edu.au
Tel: +617 3365 6960

Elazer R. Edelman, M.D., Ph.D., F.A.C.C.

Thomas D. and Virginia W. Cabot Professor
Director, Biomedical Engineering Center
Harvard-MIT Division of Health Sciences and Technology
77 Massachusetts Ave., Bldg. 16-343
Cambridge, MA 02139
Email: ere@mit.edu
Tel: + 1 (617) 253-1569

Rambo, Carlos Renato, Dr.

Chemical Engineering & Materials Science and Engineering
Universidade Federal de Santa Catarina
Centro Tecnológico
Departamento de Engenharia Química e Engenharia de Alimentos
Caixa Postal 476, Trindade, C.P. 476
88040900 – Florianópolis, SC - Brazil
E-mail: rambo@enq.ufsc.br
Tel.: +55 48 3721-9822 Ext. 233
Fax: +55 48 3721-9687



LUISMAR MARQUES PORTO