

PERSONAL DATA

Name: Catarina Paula Guerra Geoffroy Prista

Place and Birth Date: Lisboa, 1969/11/26

ID: 8774224 of 01/06/2000,Lisboa

Nacionality: Portuguese

Address: R.Dr.Gregório Rodrigues Fernandes, nº39, 1º
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Portugal

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ACADEMIC DEGREES

Ph.D. Agro-Industrial Engineering (November 2001)

Instituto Superior de Agronomia, Technical University of Lisbon, Portugal

Dissertation Thesis: Resistance to salt in *Debaryomyces hansenii*: a bioenergetical perspective. Research Advisor: Dr. Maria C. Loureiro Dias

M.S. Food Science and Technology (March 1996)

Technical University of Lisbon, Portugal

Dissertation Thesis: Physiology of the resistance to salt stress of *Debaryomyces hansenii*: relations with temperature. Research Advisors: Dr. Amândio Madeira Lopes and Dr. Maria C. Loureiro Dias

Graduation Applied Chemistry–Biotechnology (5 years) (September 1993)

Faculdade de Ciências e Tecnologia, New University of Lisbon, Portugal

SCIENTIFIC AND PROFESSIONAL ACTIVITIES

Research positions:

2008 –

CBAА Researcher (Programa Ciência 2007), CBAА, ISA-TUL.

2005 – 2007

Postdoctoral fellowship, FCT (SFRH/BPD/20263/2004), CBAА, ISA-TUL.

2002 – 2004

Postdoctoral fellowship, *Project*: Looking for genes involved in salt resistance in yeasts (POCTI/BIO/32749/2000). CBAА, ISA-TUL. PI: Dr. Maria C. Loureiro Dias

1997-2001

Doctoral Fellowship (PRAXIS XXI/BD/9089/96), DBEB, ISA-TUL.

1997

Invited Research Fellowship, Escuela Técnica Superior de Ingenieros Agrónomos -U. Politécn. de Madrid, Spain.

1996-1997

Invited Research Fellow Escuela Técnica Superior de Ingenieros Agrónomos y Montes-U. Córdoba, Spain.

1994-1996

Master Fellowship (PRAXIS XXI/BM/550/94), TUL and IGC.

Research activity:

2010-

Project: Improving *Debaryomyces hansenii* biotechnological potential by understanding the impact of CUG mistranslation in stress tolerance (PTDC/EBB-BIO/108269/2008). CBAA ISA-TUL and FM, U. Porto. PI: Dr. Isabel Miranda

Project: AQUAVITIS - Understanding water transport in *Vitis vinifera*: biochemical characterization of aquaporins upon their heterologous expression in yeast (PTDC/AGR-AAM/099154/2008). CBAA ISA-TUL, REQUIMTE, ITQB and U. Minho. PI: Dr. Maria C. Loureiro Dias

2007-2010

Project: Evaluation of defensive properties of apple quitinases (PTDC/AGR-AAM/75506/2006). CBAA and CER, ISA-TUL. PI: Dr. Cristina Oliveira

Project: To promote xylitol release to improve bioethanol business (PTDC/AGR-CFL/71792/2006). CBAA ISA-TUL and INETI. PI: Dr. Maria C. Loureiro Dias

2005-2007

Project: Functional genomics and bioenergetics of *Saccharomyces cerevisiae* during winemaking (POCTI/AGR/47891/2002). CBAA ISA-TUL. PI: Dr. Maria C. Loureiro Dias

2004-2006

Project: Genes de Tolerância ao sal na levedura *Debaryomyces hansenii*. Acção Integrada Luso-espanhola (Acção E-81/04) CBAA ISA-TUL and ETSIAM – U. Córdoba.

2001-2004

Project: Looking for genes involved in salt resistance in yeasts (POCTI/BIO/32749/2000). CBAA, ISA-TUL. PI: Dr. Maria C. Loureiro Dias

1994-1996

Project: Spoilage yeasts in food and beverages: characterization and ecology for improved diagnosis and control (AIR2-CT93-0830). IGC, Portugal PI: Dr. Virgílio Loureiro

Scientific Advising

2010-

Tiago Monteiro Lomba Viana - "In search for role of yeast regulatory pathways during the late stages of fermentation", PhD in Food Engineering (SFRH/BD/65236/2009), CBAA ISA-TUL (Advisor).

2010-

Mafalda Honório Torres - "Bioetanol a partir de hidrolisados lenhocelulósicos simulados: avaliação preliminary do papel da regulação em *Saccharomyces cerevisiae*", Master in Engineering in Bioenergetic Systems, CBAA, ISA-TUL (Advisor).

Claudia Maria Morais Valente - "Bioetanol a partir de hidrolisados lenhocelulósicos simulados: avaliação preliminary do papel de sistemas de transporte membranar de

Saccharomyces cerevisiae", Master in Engineering in Bioenergetic Systems CBAA, ISA-TUL (Advisor)

2008-2009

Tiago Monteiro Lomba Viana - "Caracterização bioenergética de *Saccharomyces cerevisiae* em fermentação vinária", Master in Food Engineering, CBAA, ISA-TUL (Advisor)

Vanessa Alexandra Guerreiro Salvador - "Avaliação de apoptose e necrose em *Saccharomyces cerevisiae* em fermentações vinárias", Master in Food Engineering, CBAA, ISA-TUL (Advisor)

Susana Marisa da Cunha Dias - "Pasta de Azeite *versus* Azeite Virgem Extra", Master in Food Engineering, CBAA, ISA-TUL (Co-advisor)

Pedro Miguel Rodrigues de Oliveira - "Utilização de leveduras na produção de novas bebidas fermentadas", Master in Food Engineering, CBAA, ISA-TUL (Advisor)

2007-2009

Mariana Mota - Post-Doctoral Fellow, ISA-TUL (SFRH/BPD/34848/2007) (Scientific Co-Advisor).

2007-2008

Vanessa Alexandra Guerreiro Salvador - "Avaliação de marcadores apoptóticos e necróticos na levedura *Saccharomyces cerevisiae* em várias fases da fermentação vinária", Graduation in Biotechnological Engineering, CBAA ISA-TUL and ULHT (Advisor)

Odília dos Santos Nunes - "Clonagem de aquaporinas de *Vitis vinifera* em leveduras e caracterização dos fluxos de água por *Stopped-flow Spectroscopy*", Graduation in Biotechnological Engineering, CBAA ISA-TUL and ULHT (Advisor)

Patricia Sofia Dias - "Influência da temperatura na resistência ao etanol em *Saccharomyces cerevisiae*" Graduation in Biology internship, CBAA, ISA-TUL (Co-advisor)

Diana Constantino Macedo - "Prolina como protector contra o stree provocado pelo etanol em *Saccharomyces cerevisiae*", Graduation in Biology internship, CBAA, ISA-TUL (Co-advisor)

2003

Joana Gonçalves - "Caracterização molecular e fisiológica de um sistema de transporte de potássio na levedura *Debaryomyces hansenii*", Graduation in Biotechnological Engineering, CBAA ISA-TUL and ULHT (Advisor)

Vera Luísa Santos Neves - "Novos aspectos da fisiologia de *Debaryomyces hansenii* uma levedura halotolerante", Graduation in Biotechnological Engineering, CBAA ISA-TUL and ULHT (Advisor)

2000-2008

Internal advisor of more than 25 Graduations in Biotechnological Engineering and 2 graduations in Biology, Universidade Lusófona de Humanidades e Tecnologias.

Teaching Activity

2010-

Collaboration in theoretical lectures - Molecular Ecophysiology, 2nd Cycle Master degree

in Functional Biology, ISA-TUL.

Collaboration in theoretical and practical lectures – Fermented Foods, Pos-graduation in Gastronomical Sciences, ISA-TUL.

2009-

Collaboration in theoretical and practical lectures – Functional Microbiology, Graduation in Biology, ISA-TUL.

2008-

Collaboration in theoretical and practical lectures - Biotechnology, Graduation in Biology, ISA-TUL.

Collaboration in theoretical and practical lectures - Functional Genomics, 2nd Cycle Master degree in Functional Biology, ISA-TUL

2006-2008

Coordination and theoretical lectures – Cell Biology, Graduation in Environmental Engineering, Universidade Lusófona de Humanidades e Tecnologias.

Coordination and theoretical and practical lectures – Microbial Technology, Graduation in Biotechnological Engineering, Universidade Lusófona de Humanidades e Tecnologias

2006-2007

Coordination and theoretical lectures – Microbiology II, Graduation in Biotechnological Engineering, Universidade Lusófona de Humanidades e Tecnologias

2002-2007

Coordination and theoretical lectures – Microbiology I, Graduation in Biotechnological Engineering, Universidade Lusófona de Humanidades e Tecnologias

2001-2008

Coordination and theoretical and practical lectures – Cell Biology, Graduation in Biotechnological Engineering, Universidade Lusófona de Humanidades e Tecnologias

1999-2006

Practical Lectures – Microbiology I, Universidade Lusófona de Humanidades e Tecnologias

1998-2006

Practical Lectures – Microbiology II, Universidade Lusófona de Humanidades e Tecnologias

AREA OF SCIENTIFIC ACTIVITY

Yeast Molecular Biology and Physiology:

- mechanisms of stress resistance to abiotic factors (high and low temperature, acidic and alkaline pH and osmotic pressure).
- sugar, polyols, cation and water transport mechanisms and their regulation under stress conditions.
- proton homeostase (intracellular pH, plasma membrane H⁺ permeability and H⁺ extrusion
- physiology of yeast during wine fermentation.

PUBLICATIONS

Chapters in books

Prista, C., Loureiro-Dias, M.C. (2006) "*Debaryomyces hansenii*, a salt loving spoilage yeast" in "A portrait of state-of-the-art research at the Technical University of Lisbon", p.457-564, M.S. Pereira (Ed.), Springer, Dordrecht, The Netherlands.

Peer-reviewed journal articles

Madeira, A., Leitão, L., Soveral, G., Dias, P., Prista, C., Moura, T., Loureiro-Dias, M.C. (2010) Effect of Ethanol on Fluxes of Water and Protons across the Plasma Membrane of *Saccharomyces cerevisiae*, *FEMS Yeast Research* (Accepted for publication)

Prista, C., Gonzalez-Hernandez, J.C., Ramos, J., Loureiro-Dias, M.C. (2007) "Cloning and characterization of two K⁺ transporters of *Debaryomyces hansenii*". *Microbiology* 153: 3035-3044.

García-Salcedo, R., Casamayor, A., Ruiz, A., González, A., Prista, C., Loureiro-Dias, M.C., Ramos, J., Ariño, J. (2006) "Heterologous expression implicates a GATA factor in regulation of nitrogen metabolic genes and ion homeostasis in the halotolerant yeast *Debaryomyces hansenii*". *Eukaryotic Cell* 5: 1388-1398.

Prista, C., Loureiro-Dias, M.C., Montiel, V., Garcia, R., Ramos, J. (2005) "Mechanisms underlying the halotolerant way of *Debaryomyces hansenii*". *FEMS Yeast Res.* 5: 693-701.

Pina, C., Gonçalves, P., Prista, C., Loureiro-Dias, M.C. (2004) "Ffz1 a new transporter specific for fructose from *Zygosaccharomyces bailii*". *Microbiology* 150: 2429-2433.

Prista, C., Soeiro, A., Vesely, P., Almagro, A., Ramos, J., Loureiro-Dias, M.C. (2002) "Genes from *Debaryomyces hansenii* increased salt tolerance in *Saccharomyces cerevisiae* W303". *FEMS Yeast Res.* 2: 151-157.

Almagro, A., Prista, C., Benito, B., Loureiro-Dias, M.C., Ramos, J. (2001) "Cloning and expression of two genes coding for sodium pumps in the salt-tolerant yeast *Debaryomyces hansenii*". *J. Bacteriol.* 183: 3251-3255.

Almagro, A., Prista, C., Castro, S., Quintas, C., Madeira-Lopes, A., Ramos, J., Loureiro-Dias, M.C. (2000) "Effects of salts on *Debaryomyces hansenii* and *Saccharomyces cerevisiae* under salt stress conditions". *Int. J. Food Microbiol.* 56: 191-197.

Prista, C., Almagro, A., Loureiro-Dias, M.C., Ramos, J. (1998) "Kinetics of cation movements in *Debaryomyces hansenii*". *Folia Microbiologica (Praha)* 43: 212-214.

Prista, C., Almagro, A., Loureiro-Dias, M.C., Ramos, J. (1997) "Physiological basis for the high salt tolerance of *Debaryomyces hansenii*". *Appl. Environm. Microbiol.* 63: 4005-4009.

Prista, C., Madeira-Lopes, A. (1995) "Thermokinetic and energetic profiles of the food spoilage yeast *Debaryomyces hansenii*". *Biotechnol. Lett.* 17: 1233-1236.

Papers in conference proceedings

Prista, C., González-Hernandez, J.C., Ramos, J., Loureiro-Dias, M.C. (2005) "DhTRK and DhHAK, two genes for K⁺ transporters in *Debaryomyces hansenii*". *Yeast* 22: S1-S236.

- González-Hernandez, J.C., Prista, C., Loureiro-Dias, M.C. (2005) "Cloning and expression of genes encoding for glycerol transport in the salt-tolerant yeast *Debaryomyces hansenii*". *Yeast* 22: S1-S236.
- Pina, C., Gonçalves, P., Prista, C., Loureiro-Dias, M.C. (2003) "Molecular characterization of the fructose transporter of *Zygosaccharomyces bailii*". *Yeast* 20: S1-S390.
- Prista, C., Ramos, J., Loureiro-Dias, M.C. (2003) "Potassium transport systems in *Debaryomyces hansenii*". *Yeast* 20: S1-S390.
- Ramos, J., Montiel, V., Prista, C., Garcia-Salcedo, R., Loureiro-Dias, M.C. (2003) "A comprehensive approach to the study of salt tolerance in *Debaryomyces hansenii*". *Yeast* 20: S1-S390.
- Prista, C., Almagro, A., Ramos, J., Loureiro-Dias, M.C. (2001) "Genes from the marine yeast *Debaryomyces hansenii* improved *Saccharomyces cerevisiae* salt tolerance". *Eur. J. Biochem.* 268: 130.
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COMMUNICATIONS

Oral communications by invitation

- C. Prista, J.C. Gonzalez, J. Ramos, M.C. Loureiro-Dias (2005) "DhTRK and DhHAK, Two Genes Encoding for K⁺ Transporters in *Debaryomyces hansenii*" 22th International Conference on Yeast Genetics and Molecular Biology, Bratislava, Slovak Republic.

Other oral communications

- L. Leitao, A. Madeira, C. Prista, G. Soveral, T. Moura, M.C. Loureiro-Dias (2009) "Saccharomyces cerevisiae: a suitable heterologous system for Vitis vinifera aquaporin studies in combination with a stopped-flow technology". 17^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Braga, Portugal.
- A. Madeira, P. Dias, L. Leitão, C. Prista, G. Soveral, T. Moura, M.C. Loureiro-Dias (2008) "How does Yeast (mis)behave under the influence of ethanol", XVIth National Congress of Biochemistry", Ponta Delgada, Portugal.
- V. Salvador, M. C. Loureiro-Dias, C. Prista (2008) "Apoptose em *Saccharomyces cerevisiae* durante uma fermentação vinária" 15^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Vimeiro, Portugal
- C. Prista, P. Fareleira, V. Loureiro (2007) "The way of *Saccharomyces cerevisiae* during wine fermentation". 25th Small Meeting on Yeast Transport and Energetics, Arraial d'Ajuda, Brazil.
- P. Fareleira, P. Dias, D. Macedo, V. Salvador, V. Loureiro, M. C. Loureiro-Dias, C. Prista (2007) "Bioenergética de *Saccharomyces cerevisiae* durante a fermentação vínica". 14^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Porto, Portugal
- C. Prista, J.C. Gonzalez, J. Ramos, M.C. Loureiro-Dias (2005) "Two potassium transport systems from *Debaryomyces hansenii*". 23rd Small Meeting on Yeast Transport and Energetics, New Dheli, India.
- J.C. Gonzalez, C. Prista, M.C. Loureiro-Dias (2005) "Cloning and cloning and expression of genes coding for glycerol transport in *Debaryomyces hansenii*". 13^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Vila Real, Portugal.
- R. Garcia, C. Prista, M.C. Loureiro-Dias, J. Ramos (2005) "GZF3, a GATA-family transcription factor from *Debaryomyces hansenii* involved in growth at alkaline pH". 13^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Vila Real, Portugal.

- C. Prista, M.C. Loureiro-Dias, V. Montiel, R. Garcia, J. Ramos (2004) "*Debaryomyces hansenii*: a salt-loving yeast". 22nd Small Meeting on Yeast Transport and Energetics, Azores, Portugal.
- R. Garcia, C. Prista, M.C. Loureiro-Dias, J. Ramos (2004) "*DhGZF3*, a gene involved in tolerance to high pH in *Debaryomyces hansenii*". 22nd Small Meeting on Yeast Transport and Energetics, Azores, Portugal.
- R. Garcia, C. Prista, M.C. Loureiro-Dias, J. Ramos (2004) "Identification, isolation and study of genes and proteins involved in pH and salt tolerance in *Debaryomyces hansenii*". 12^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Aveiro, Portugal.
- I. Pereira, L. Lima, C. Prista, P. Gonçalves, M.C. Loureiro-Dias (2004) "Molecular and kinetic characterization of a glucose transporter in *Zygosaccharomyces bailii*". 12^{as} Jornadas de Biologia de Leveduras "Professor Nicolau van Uden", Aveiro, Portugal.
- C. Pina, P. Gonçalves, C. Prista, M.C. Loureiro-Dias (2003) "*FFZ1* a new gene responsible for the specific transport of fructose in *Zygosaccharomyces bailii*". 21st Small Meeting on Yeast Transport and Energetics, Bonn, Germany.
- C. Pina, P. Gonçalves, C. Prista, M.C. Loureiro-Dias (2003) "*FFZ1*, um gene envolvido na frutofilia em *Zygosaccharomyces bailii*". 11^{as} Jornadas de Biologia de Leveduras "Professor Nicolau van Uden", Bragança, Portugal.
- R. Garcia, C. Prista, M.C. Loureiro-Dias, J Ramos (2003) "A genomic approach to the study of halotolerance in *Debaryomyces hansenii*". 11^{as} Jornadas de Biologia de Leveduras "Prof. Nicolau van Uden", Bragança, Portugal.
- C. Pina, C. Prista, P. Gonçalves, L. Brito, M.C. Loureiro-Dias (2002) "Isolamento de genes envolvidos no transporte de frutose em *Zygosaccharomyces bailii*". 10^{as} Jornadas de Biologia de Leveduras "Professor Nicolau van Uden", Faro, Portugal.
- C. Prista, A. Soeiro, A. Almagro, J. Ramos, M.C. Loureiro-Dias (2001) "Transporte de potássio em transformantes de *Saccharomyces cerevisiae* com genes de *Debaryomyces hansenii*". 9^{as} Jornadas de Biologia de Leveduras "Professor Nicolau van Uden", Alcochete, Portugal.
- C. Prista, A. Almagro, A. Soeiro, J. Ramos, M. C. Loureiro-Dias (2001) "Transformants of *Saccharomyces cerevisiae* with genes from *Debaryomyces hansenii* display improved salt and K⁺ transport activity". Workshop "Molecular Basis of Ionic Homeostasis and Salt Tolerance in Plants", Instituto Juan March de Estudios e Investigaciones – Centre for International Meetings on Biology, Madrid, Spain.
- C. Prista, A. Almagro, J. Ramos, M.C. Loureiro-Dias (2000) "Transformants of *Saccharomyces cerevisiae* with genes from *Debaryomyces hansenii* display increased salt tolerance". 18th Small Meeting on Yeast Transport and Energetics, Ouro Preto, Brazil.
- A. Almagro, F. Calero, M. Rosas, C. Prista, M.C. Loureiro-Dias, J. Ramos (2000) "Sodium exclusion and inclusion determines salt tolerance in yeast" 10th International Symposium on Yeasts, Delft, Netherlands.
- C. Prista, A. Almagro, J. Ramos, M.C. Loureiro-Dias (2000) "Em busca dos genes envolvidos na resistência ao sal em *Debaryomyces hansenii*". 8^{as} Jornadas de Biologia de Leveduras "Professor Nicolau van Uden", El Escorial, Spain.
- A. Almagro, C. Prista, M.C. Loureiro-Dias, J. Ramos (2000) "Clonaje y expresión dos genes que codifican ATPasas de sodio en *Debaryomyces hansenii*". 8^{as} Jornadas de Biologia de Leveduras "Professor Nicolau van Uden", El Escorial, Spain.
- A. Almagro, C. Prista, M.C. Loureiro-Dias, J. Ramos (1999) "Na⁺ efflux in *Debaryomyces hansenii*". 17th Small Meeting on Yeast Transport and Energetics, Cordoba, Spain.

- A. Almagro, C. Prista, M.C. Loureiro-Dias, J. Ramos (1999) "El proceso de salida de Na⁺ en *Debaryomyces hansenii*". 7^{as} Jornadas de Biología de Leveduras "Professor Nicolau van Uden", Lisboa, Portugal.
- A. Almagro, C. Prista, S. Castro, C. Quintas, J. Ramos, A. Madeira-Lopes, M.C. Loureiro-Dias (1998) "Effects of salts in *Debaryomyces hansenii* and *Saccharomyces cerevisiae* under stress conditions". 6^{as} Jornadas de Biología de Leveduras "Professor Nicolau van Uden", Santarém, Portugal.
- C. Prista, A. Almagro, M.C. Loureiro-Dias, J. Ramos (1998) "Salt as a stress protector in yeast *Debaryomyces hansenii*". XI Congresso Nacional de Bioquímica, Tomar, Portugal.
- C. Prista, A. Almagro, M.C. Loureiro-Dias, J. Ramos (1997) "*Debaryomyces hansenii* a halotolerant or a halophilic yeast?". 15th Small Meeting on Yeast Transport and Energetics, San José de Vista Hermosa, Mexico.
- C. Prista, A. Almagro, M. C. Loureiro-Dias, J. Ramos (1997) Advanced Course on Biochemistry and Molecular Biology of Non-Conventional Yeasts, Instituto Juan March de Estudios e Investigaciones - Centre for International Meetings on Biology, Madrid, Spain.
- C. Prista, A. Almagro, M.C. Loureiro-Dias, J. Ramos (1997) "*Debaryomyces hansenii*, uma levedura halófila em ambientes com pouco potássio" 5as Jornadas de Biología de Leveduras "Professor Nicolau van Uden", Viseu, Portugal.

Posters

- C. Prista, V. Salvador, T. Viana, P. Fareleira, V. Loureiro, M.C. Loureiro-Dias (2009) "Physiological characterization of an industrial strain of *Saccharomyces cerevisiae* during wine fermentation". Microbiotec09, Vilamoura, Portugal.
- T. Viana, M.C. Loureiro-Dias, C. Prista (2009) "Proton homeostasis of *Saccharomyces cerevisiae* during wine fermentation". Microbiotec09, Vilamoura, Portugal.
- L. Leitao, A. Madeira, C. Prista, G. Soveral, T. Moura, M.C. Loureiro-Dias (2009) "Vitis vinifera cv Touriga Nacional aquaporin garing studies using *Saccharomyces cerevisiae* in combination with a stopped-flow technique" COST 858 "Viticulture - Final Meeting", Bordeaux, France.
- M.J. Leandro, A. Madeira, C. Prista, M.C. Loureiro-Dias (2009) "Characterization of polyol transporters from *Debaryomyces hansenii* type-strain". 24th International Conference on Yeast Genetics and Molecular Biology, Manchester, United Kingdom.
- L. Leitão, C. Prista, A. Madeira, G. Soveral, T. Moura, M.C. Loureiro-Dias (2008) "Characterization of a *Vitis vinifera* CV Touriga Nacional TIP aquaporin using *Saccharomyces cerevisiae* heterologous expression system". 8th International Symposium on Grapevine Physiology and Biotechnology, Adelaide, Australia.
- L. Leitão, C. Prista, A. Madeira, G. Soveral, T. Moura, M.C. Loureiro-Dias (2008) "Characterization of some cDNA aquaporin genes from *Vitis vinifera* CV Touriga Nacional". COST 858 "Viticulture - biotic and abiotic stress- grapevine defense mechanisms and grape development", Braga, Portugal.
- L. Leitão, C. Prista, A. Madeira, O. Nunes, G. Soveral, T. Moura, M. C. Loureiro-Dias (2007) "Characterization of aquaporins from *Vitis vinifera* upon their expression in an heterologous system" 25th Small Meeting on Yeast Transport and Energetics, Arraial d'Ajuda, Brazil.
- C. Prista, P. Fareleira, V. Loureiro, M. C. Loureiro-Dias (2007) "Sugar transport and consumption in *Saccharomyces cerevisiae* during wine fermentation". 23th International Conference on Yeast Genetics and Molecular Biology, Melbourne, Australia.

- C. Prista, P. Fareleira, V. Loureiro, M. C. Loureiro-Dias (2007) "Uptake of hexose anomers during grape must fermentation". 26th International Specialised Symposium on Yeast: Alcoholic Fermentation: from Beverages to Bioethanol, Sorrento, Italy.
- C. Prista, P. Fareleira, V. Loureiro, M. C. Loureiro-Dias (2006) "Physiological Characterization of *Saccharomyces cerevisiae* during wine fermentation". 25th International Specialised Symposium on Yeast. System Biology of Yeasts: from models to applications, Hanasaari, Finland.
- J.C. González-Hernández, C. Prista and M.C. Loureiro-Dias (2006) "Glycerol transport in halophilic *Debaryomyces hansenii*". 25th International Specialised Symposium on Yeast . System Biology of Yeasts: from models to applications. Hanasaari, Finland.
- J.C. González-Hernández, C. Prista, A.P. Madeira, G. Soveral, T. Moura, M.C. Loureiro-Dias (2005) "Cloning, Expression and Characterization of *AQY1* Gene of *Debaryomyces hansenii*". MICRO'05-BITEC'05, Póvoa do Varzim, Portugal.
- J.C. González-Hernández, C. Prista, M.C. Loureiro-Dias (2005) "Characterization of *GUP1* gene encoding for glycerol transport in the halophilic yeast *Debaryomyces hansenii*". 6th International Symposium on Extremophiles and their Applications, Tokio, Japan.
- C. Prista, J. Ramos, M.C. Loureiro-Dias (2005) "*Debaryomyces hansenii*: a potential source of genes involved in salt tolerance". ESF-EMBO Symposium on Comparative Genomics of Eukaryotic Microorganisms, Eukaryotic Genome Evolution, Approaches with Yeasts and Fungi, St. Feliu de Guixols, Spain.
- J.C. González-Hernández, C. Prista, A.P. Madeira, G. Soveral, T. Moura, M.C. Loureiro-Dias (2005) "Cloning, expression and characterization of *AQY1* gene of *Debaryomyces hansenii*". The 4th International Conference on Aquaporins, Brussels, Belgium.
- J.C. González-Hernández, C. Prista, A. P. Madeira, G. Soveral, T. Moura, M. C. Loureiro-Dias (2005) "Cloning and xpression of genes coding for glycerol transport in the salt-tolerant yeast *Debaryomyces hansenii*" 22nd International Conference on Yeast Genetics and Molecular Biology, Bratislava, Slovak Republic.
- C. Prista, J.C. Gonzalez, J. Ramos, M.C. Loureiro-Dias (2005) "*DhTRK* and *DhHAK*, Two Genes Encoding for K⁺ Transporters in *Debaryomyces hansenii*". 22nd International Conference on Yeast Genetics and Molecular Biology, Bratislava, Slovak Republic.
- C. Pina, P. Gonçalves, C. Prista, M.C. Loureiro-Dias (2003) "Molecular characterization of the fructose transporter of *Zygosaccharomyces bailii*". 21st International Conference on Yeast Genetics and Molecular Biology, Gothenburg, Sweden.
- C. Prista, J. Ramos, M.C. Loureiro-Dias (2003) "Potassium transport systems in *Debaryomyces hansenii*" 21st International Conference on Yeast Genetics and Molecular Biology, Gothenburg, Sweden.
- J. Ramos, V. Montiel, C. Prista, R. Garcia-Salcedo, M.C. Loureiro-Dias (2003) "A comprehensive approach to the study of salt tolerance in *Debaryomyces hansenii*". 21st International Conference on Yeast Genetics and Molecular Biology, Gothenburg, Sweden.
- C. Pina, C. Prista, P. Gonçalves, L. Brito, M.C. Loureiro-Dias (2002) "Isolation of genes involved in the uptake of fructose in *Zygosaccharomyces bailii*". 13^o Congresso Nacional de Bioquímica, Lisboa, Portugal.
- C. Prista, A. Soeiro A., P. Vesely, A. Almagro, J. Ramos, M.C. Loureiro-Dias (2002) Resistance to salt in *Debaryomyces hansenii*: physiological and molecular studies, FEBS Lecture Course - Advanced Tecnologies for Metabolic Engineering in Biotechnology and Medicine, Carcavelos, Portugal.
- C. Prista, A. Soeiro, P. Vesely, J. Ramos, M.C. Loureiro-Dias (2001) "*Saccharomyces cerevisiae* transformed with genes from the marine yeast *Debaryomyces hansenii*

display improved salt stress tolerance" 2nd International Meeting "Cellular Responses to Oxidative and Osmotic Stress: Sensing, Signalling and Gene Expression". Póvoa de Varzim, Portugal.

- C. Prista, A. Almagro, J. Ramos, M.C. Loureiro-Dias (2001) "Genes from the marine yeast *Debaryomyces hansenii* improved *Saccharomyces cerevisiae* salt tolerance", 27th FEBS Meeting, Lisboa, Portugal.
- A. Almagro, F. Calero, M. Rosas, C. Prista, M.C. Loureiro-Dias (2000) "Sodium exclusion and inclusion determines salt tolerance in yeast", 10th International Symposium on Yeast, Arnhem, , The Netherlands.
- C. Prista, A. Almagro, M.C. Loureiro-Dias, J. Ramos (1998) "Effect of salts on growth and thermal death of *Debaryomyces hansenii* and *Saccharomyces cerevisiae* under stress conditions", 19th International Specialized Symposium on Yeasts, Braga, Portugal.
- C. Prista, A. Veiga, J. Silva, A. Madeira-Lopes (1996) "Temperature relations of the Kinetics and Energetics of Growth and Thermal Death Among Food Spoilage Yeasts", 9th International Symposium on Yeasts, Sydney, Australia.
- C. Prista, A. Almagro, M.C. Loureiro-Dias, J. Ramos (1996) "Resistência a NaCl: Comparação entre *Debaryomyces hansenii* e *Saccharomyces cerevisiae*" 10^o Congresso Nacional de Bioquímica. Braga, Portugal.
- C. Prista, A. Madeira-Lopes (1995) "Conjunct effect of growth stage and sodium chloride on thermal death in the yeast *Debaryomyces hansenii*". Beijerinck Centennial, The Hague, The Netherlands.
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PROFESSIONAL AND UNIVERSITY MEMBERSHIPS AND ACTIVITIES

Organizing and Scientific Committee of XVIII Jornadas de Biologia de Leveduras Prof. Nicolau van Uden (2010), ISA-TUL.

Organizing Committee of "Conferências da Tapada", 1^a Conferência Ibérica em Viticultura e Enologia (2009) and 1^a Conferência em Viticultura e Enologia (2008), ISA-TUL.

Organization of the CBAA Workshop "Aquaporinas: relevância no transporte de água", Lisboa, 20-21 May 2005.

Reviewer, Microbiology.

Reviewer, Extremophiles.

Reviewer, Yeast.

Reviewer, FEMS Yeast Research.

Member, Portuguese Society of Biophysics.

Member, Portuguese Society of Biochemistry.

Member, Portuguese Society of Microbiology

ADDITIONAL SCIENTIFIC TRAINING

Bioinformatics Course – Practical Microarray Data Analysis, Instituto Gulbenkian de Ciência, Oeiras, Portugal, 28–30 June 2006.

Workshop "Aquaporinas: relevância no transporte de água", Lisboa, 20-21 May 2005.

5th Short Course of the Portuguese Biophysical Society "Genomics and proteomics biphysical perspectives", Santarém, Portugal, 17-19 October 2003.

FEBS Lecture Course - Advanced Technologies for Metabolic Engineering in Biotechnology and Medicine, Carcavelos, Portugal, 1-12 September 2002.

Bioinformatics Course - Biological Sequence Analysis, Instituto Gulbenkian de Ciência, Oeiras, Portugal, 10-14 December 2001.

Workshop "Molecular Basis of Ionic Homeostasis and Salt Tolerance in Plants". Instituto Juan March de Estudios e Investigaciones - Centre for International Meetings on Biology, Madrid, Spain, 22-24 October 2001.

Advanced Course on Biochemistry and Molecular Biology of Non-Conventional Yeasts, Instituto Juan March de Estudios e Investigaciones - Centre for International Meetings on Biology, Madrid, Spain, 7-19 July 1997.

OTHER SCIENTIFIC ACTIVITIES

Molecular Gastronomy research and outreach (development and implementation of methodologies applied to the gastronomy themes, preparation of practical protocols and organization of practical courses).

Technical and scientific support to Oceanographic Campaign of Estrutura de Missão para a Extensão da Plataforma Continental (EMEPC) (EMEPC/Açores/G3/2007). (to collect biological samples in order to evaluate the marine biodiversity and study their biotechnological potential and putative industrial and biomedical applications).

Translation from English to Portuguese language of: *Gilberts, S.F. (2003) "Developmental Biology", 7th ed., Sinauer Associates Inc.* (work for Fundação Calouste Gulbenkian - Scholarship and Education Services, 2008)