# Curriculum Vitae
# of
# Professor Dr Claudina Rodrigues-Pousada

PERSONAL DATA

*Name:* Claudina Amélia Marques Rodrigues-Pousada,
*Marital status*: married, 3 children (Renato, Luís e Pedro)
*Nationality*: Portuguese
*Professional address*:
ITQB , Laboratory Genomics and Stress
Avenida da República
Apartado 127
Oeiras, Codex
Phone number: +351 21 4469624
Fax: +351 21 443 3644
email: claudina@itqb.unl.pt

*Brief of Claudina's Activities*

Has introduced in Portugal the genetic engineering techniques and molecular biology approaches applied to various aspects of gene regulation, has supervised *26 PhD thesis*, *13 master thesis* and *22 thesis of "licenciatura"* (aimed to complete the graduation). Has supervised Portuguese, Belgium, French, and Italian and Brazilian post-doctoral fellows (14); has given several conferences as invited speaker at International meetings and has given several plenary lectures at international and national meetings. The hindex of her publications is 36 and has a total number of citations of 4,806. Has organized *several advanced courses, Congresses and workshops* and was *Professor of PhD Students* at the Instituto Gulbenkian de Ciência, at the Free University of Amsterdam, at the University of Paris VII, at the Ecole Normale Supérieure and at ITQB. Was Member of jury of PhD thesis (Portugal, Holland, France and Spain) and Agregação (Portugal)

***PREVIOUS ACADEMIC TRAINING:***

**- 1968 - Graduation in Pharmacy, University of Porto,** (16 out of 20)
**- 1976 - Doctorat 3ème cicle** in Biochemistry, University of Paris VII, "Mention trés honorable"
**- 1979 - "Doctorat d'Etat ès Sciences"** in Biochemistry, University of Paris VII, "Mention très honorable et Felicitations du Jury" Equivalent to the PhD in Biochemistry, Instituto de Ciências Biomédicas Abel Salazar of the University of Porto.

**-1983** – **Title of Professor Agregado** in Biochemistry, Instituto de Ciências Biomédicas Abel Salazar of the University of Porto (unanimously approved). Pedagogic report on the "Biologia Molecular de Eucariontes" and the lecture on "Possíveis mecanismos moleculares envolvidos ne resposta a situaçoes de "Stress" ambiental em células eucariotas".

## ***COMPLEMENTARY EDUCATION***

**Courses attended :**

**1970 -** Curso monográfico intensivo em Fisiologia Celular, Estudos Avançados do Instituto Gulbenkian de Ciência, de 17/08/1970 a 25/09/1970 com os Prof.A.Pato de Carvalho e D.Hall, King's College,Universidade de Londres (30 horas Teóricas e 150 horas de trabalho laboratorial. Testes: 5.

**1976 -** Workshop on "Gene Manipulation", com os Prof. Frank Young, Gary Wilson e L.Archer, Instituto Gulbenkian de Ciência com a duração de duas semanas.

**1978 -** Transfer of Cell Constituents into Eucaryotic Cells, International Summer School, ( N.A.T.O) Estoril, organizado pelos Drs. J. E. Celis, A. Grassman e A. Loyter.Duração de duas semanas.

**1981 -** Control and Processing in the biosynthesis of Macromolecules, International Summer School, Spetzai, Grécia, Organizado pelo Dr.B.F.Clark. Duração de duas semanas.

**1982 -** Gene Expression in Normal and Transformed Cells,International Summer School, Maio 23-Junho 3, Estoril, organizado pelo Dr.Celis. Duração de duas semanas.

## ***GRANTS AS STUDENT AND INVESTIGATOR***

**De 1968 a 1973** – Research Student of the "Laboratório de Farmacologia do Instituto Gulbenkian de Ciencia" with a grant of the Calouste Gulbenkian Foundation

**De 1973 a 1975** – Research Student in "Laboratoire de Chimie Cellulaire" Director Professor Donal H. Hayes "Institut de Biologie Physico-Chimique", Paris, Grant of the French Government and of FCG
**De 1975 a 1976** – Research Student in the same laboratory with grant of UNESCO, I.C.R.O. and of FCG
**De 1976 a 1980** – Research Student with Grant of the French Government and of FCG
**Since 1980** – Several missions in France with the objective of delivering seminars and establishing collaborations with French Scientists.

## CAREER

**2000 – present:** Full Professor at the "Istituto de Tecnologia Química e Biológica (ITQB), UNL

**2004-2005** – Coordinator of Biological Chemistry Division
**De 1985-2002:** Full Professor at the "Instituto de Ciências Biomédicas Abel Salazar, University of Porto," where organized and lectured the course "Biologia Molecular II" of the graduation in Biochemistry.
**De 1997-1999:** Senior Investigator and Head of the Unit of Genetic Engeneering at IGC. This was launched after the restructure of IGC by Professor António Coutinho.
**1996-** Invited Professor at the "Ecole Normale Supérieure, Paris
**De 1989-1997:** Senior Investigator and Head of the Molecular Genetics Laboratory at IGC.
**1988:** Visiting Researcher at the Weizman Institute of Science, Rehovot, Israel
**De 1985-2000:** Senior Investigator at IGC (top of the career at IGC)
**De 1980-1985:** Investigator at IGC
**De 1976-1980:** Assistant Investigator of the Molecular Genetics Laboratory at IGC.

## *POSITIONS IN SCIENTIFIC ORGANIZATIONS*

**2011-2013** – Chairman of the Young scientist career of FEBS

**2008** – Honorary President of the "Young Scientist Forum", organized by FEBS, Athens

**2005 –2009**– President of the Directive council of the Portuguese Biochemical Society

**2005-2007** – Chairman of the Young scientist career of FEBS

**2002-Present** – President of the Scientific Committee of STAB – Vida

**2003** – Co- Organizer of the 1st Luso – Spanish workshop on Structure and Function of Proteins, in Coruña, September 18-20th

**2003-2004** - President of the Executive Committee of FEBS

**2002** – Vice-President of the Executive Committee of FEBS (Federation of European Biochemical Societies)

**1995 – 2004** – Member of the European Cytoskeleton Forum (EU)

**2001-** President of the organizing and scientific committee of the 27th Congress of FEBS/PABMB, 30 June30th to July 5th Lisbon (2090 participants).

**2004, 2006, 2008 -** Organizer of the session of Gene Expression of National Congresses of Biochemistry, held in Faro, Aveiro and Ponta Delgada. Chairman of the EMBO Lecture

**1997-2004** – President of the Portuguese Biochemical Society

**1995** – Integrated the scientific committee together with Costa Georgopoulos and Arturo Leone of the workshop "Regulation of gene expression under stress conditions" 2-5 of April, Ravello, Italy

**1995- Present** – Member do Editorial Board of the journal" Comptes rendus de l'Académie des Sciences" Paris, France

**1994 - Present** – Member of the Editorial Board of the journal Yeast.

**1991 - 1997 -** Vice-President of Portuguese Biochemical Society.

**1992 - present** - Member of the Scientific and financial Committee of the International Conference on Genetics and Molecular Biology of Yeast

**1992 - 2002** – Delegated of the Portuguese Biochemical Society at the Council of FEBS.

**1993 - 1996** – Member of the Coordinate Committee of the network "Cell Stress Genes and their protein products" financial supported by the European Science Foundation.

**1994** – Moderator of the Meeting Sequencing the Yeast genome European Committee, Manchester, UK

**1994-2009** – Portuguese Delegate of the Portuguese Biochemical Society at the IUBMB Council held in New Dehli, Birmingham and Montreal (Canada).

**1993** – Member of the "Springer Ferdinand Lecture Committee", of FEBS

**1993 -** Moderator of the Symposium "Surprises from Sequencing Small Genomes" 17th International Congress of Genetics, Birmingham, England, 15-21st August

**1993 -** Moderator of the Symposium "Motility, Orientation and Behaviour, IX International Congress of Protozoology, Berlin, Germany 26 July-August 1st

**1985 - 1997** – Member of the Scientific Council at IGC

**1985** – Moderator and Organizer of the session "Cytoskeleton", at the Special FEBS Meeting, Algarve

## ***PARTICIPATION IN EVALUATION COMMITTEES***

**2011** – Evaluator of the Units UPR 3243 – IMR entitled "Interactions et Modulateurs de Réponses", CNRS Marseille, France

**2007- 2010** – Evaluator of FCT grants for PhD and Post-doctoral students (two periods per year)

**2005-2007-** Rapporteur of projets of « l'Agence Nacionale pour la Recherche " « jeunes chercheurs e groupes thématique et non – thématiques » –Ville-Juif – France

**2000-2005-** Evaluator of projects submitted to INTAS of the European Commission.

**1997-2001** – Evaluator of projects TMR of the European Union

**1995**- Evaluator of projects in Biology submitted to PRAXIS XXI

**1995-1997** – Member of the evaluation Committee of Biotechnology of J.N.I.C.T (PRAXIS XXI)

**1996 - 1999** – Evaluator of NATO Research grants (Brussels)

**1987 -** Member of the Evaluation Committee of research grants JNICT, In Health and Disease.

**1987** - Member of the committee of the "Jornadas de Ciência e Tecnologia" launched by Professor José Mariano Gago at the time was President of JNICT.

## ***ORGANIZATION OF INTERNATIONAL SCIENTIFIC MEETINGS***

Having in mind that it would be useful for the Portuguese scientific community the organization of events, I have organized in Portugal the following events:

**2008** – Organizer of the workshop 13th October "Women involved in the Science of the future" in the context of the University Ambassador Programme, SET-Routes. Invited scientists Professor Saskia van der Vies University of Amsterdam and Professor Montse Pagès of the Instituto de Biologia Molecular de Barcelona (70 participants).

**2005** – President of the Scientific and organizing committee of the Second International Congress on "Stress Responses in Biology and Medicine", Tomar, Portugal, 24-28 September. 350 participants

**2001** – President of Scientific and organizing committee of the 27th Congress of FEBS, June 30$^{th}$ – July 5$^{th}$. Lisboa with 2090 participants.

**2001 -** Organizer and moderator of the "workshop" Transcription and RNA versatility" International Conference on Yeast held in Prague

**1999** – Organizer of the European Cytoskeleton Forum, Oeiras August 28th – September 2nd – 150 participants

**1998** – Co - Organizer of the workshop EMBO, New EMBO members held in Oeiras

**1997 -** Organizer of the 1$^{st}$ EMBO workshop on "Gene Expression under stress conditions" September 2$^{nd}$ – 7$^{th}$, Carcavelos. This workshop had a great success that triggered the organization of the Gordon Conferences in the field of Stress in Biology and Medicine that take place every two years in USA, Oxford and now in Italy: 120 participants

**1995** - II BIOTECHNOLOGY MEETING Organizer promoted by the European Commission on "Sequencing the Yeast Genome" and

moderator of the Symposium "EU Chromosomes" June 8th- 19th ,Novotel, Lisbon

**1995 -** President of the organizing and scientific committee " Conference on Yeast Genetics and Molecular Biology " held in Lisbon June 10th – 16th with 900 participants and edited the YEAST supplement of the conference.

**1994 -** Organizer with Margarita Salas of the symposium "Regulation of Gene Expression" at the Luso- Spanish Congress of Biochemistry in Salamanca.

## ***EDITORIAL BOARDS AND REFEREE***

**1998** – Member of the Editorial Board of the "Compte Rendus de l'Académie des Sciences", Paris
**1995:** Editor of the special conference issue of YEAST.
**1994-present:** Member of the Editorial Board of Journal Yeast

**Ad'Hoc Referee of papers submitted to the following Journals:**
Experimental Cell Research,
Molecular and Cellular Biology,
FEBS letters,
European Journal of Biochemistry (now FEBS J),
Planta,
Yeast,
Gene,
Plant Science,
Journal of Biotechnology,
FEBS J,
Journal of Cell Science,
Cell Stress and Molecular Chaperones,
Physiological genomics,
Nucleic Acids Research, among many others.

## HONOURS

**2011** – Elected fellow of the American association for the Advancement of Science (AAAS)

**2010** – Seeds of Science "Consagração"- Ciência Hoje

**2009-** Figure of the year "Almofariz prize" Revista de Farmácia

**2009** –"Diplôme d'honneur "The highest honour given by FEBS (Federation of the Biochemical Societies). It was given during the 34th FEBS Congress Prague with the presence of the "Minister for Science and Higher Education", Professor Dr José Mariano Gago and the President of Foundation for Science and Technology, Professor Dr. João Sentieiro

**2004-** Awarded the Honorary life time member Prize by the Cell Stress Society International

**2003-2004:** Prize of Excellence given by the Minister of Science, Technology and Higher Education

**1999:** Nominated to the Prize of L'Oréal "Women in Science"

**1994:** First Prize of Genetics by the "Institute de Medical of Genetics", Porto, Portugal

**1994:** Nominated membership of the European Molecular Biology Organization (EMBO). EMBO is a very restrictive Society whose associates have to be nominated and elected.

**Scientific Activity:**

After returning to Portugal in 1976, I launched my research group at the Laboratory of Molecular Genetics, Gulbenkian Institute of Science. At the moment I implemented the basis of what later has been a laboratory of Molecular Biology. It should be said that at that moment Molecular Biology was not existent in Portugal. In France I studied the ribosome biogenesis as well as mRNA biosynthesis in the ciliate *Tetrahymena* p*yriformis* that constitute both theses. I decided therefore to use this biological system. However the research field was directed to a different field as to the study of the funcional and structural aspects of microtubules because this model contains a huge variety of these structures. On the other hand we tried to establish a relationship between the cytoskeleton and the environmental stress. In 1980 we started the study of gene expression in cells exposed to environmental cues as it was also studied the microtubules biosynthesis.

The genes encoding the components of microtubules, the tubulins, were cloned and sequenced. We also studied the post-transcriptional regulation of the mRNAs encoding the tubulins as well as also studied their post-translational modifications. These studies were also addressed in cells subjected to different stresses and in cells recovering their cilia.

My laboratory was the first one from Portugal to publish the cloning of genes in particular those encoding the tubulins in international peered review journals (FEBS Letters, 1983) as well ad the nucleotide sequences of these genes (Journal of Molecular Biology, 1988). The basis of Molecular Biology was set up inexistent at that time in Portugal. The stress response caused by arsenic compounds and by heat-shock as well as the modifications taking place after the removal of cilia was studied. With the European commission support, JNICT and the Calouste Gulbenkian Foundation, we implement new lines of research using different models such as the budding yeast *Saccharomyces cerevisiae* with the topics related to 1) Hypertermic stress Stress 2) the thermotolerance and osmotolerance mechanisms. During the course of this work we found a gene that induces constitutively flocculation that is important in the industry of winery and brewery. During the course of thermotolerance studies we found a gene encoding the second ortologous of AP-1 factors of mammalian cells that due to its similarity with Yap1, we have designated as Yap2 (JBC, 1993). Later in collaboration with Professor Kevin Struhl of the Harvard University we identified an extended family of transcription factors with 6 more genes homologous of Yap1 and Yap2 that were designated by Yap3 to Yap8. (MCB, 1997). We were pioneers in this area of research.

We were the only Portuguese laboratory to participate in the European Sequencing Network of Yeast genome. Then, we also participate in the nodes for the search of the functional analysis of new genes of unknown function that were deciphered during the systematic sequencing of yeast genome (1991-1996). When sequencing the yeast genome we discovered a gene with a high homology with the Human adrenoleucodystrophy (ALD, Yeast 1994) that allowed us to have collaboration with Professor Henk Tabak (Amsterdam). The results of this work were published in EMBO Journal (1996).

We also launched a project on Molecular biology of the plant *Lupinus albus* and in particular on the relation between the microtubules

biosynthesis and the development process. This was performed with the collaboration of Professor Cândido Pinto Ricardo of I.T.Q.B (see list of publications).
In 1993 we collaborated with ITQB and in particular with the group of Professor António Xavier in the project Metaloproteins *Desulfovibrio gigas* implementing all the molecular approaches and genetics of this microorganism. Nowadays we sequenced the complete genome of this bacterium together with STAB VIDA, a project that was also financially supported by "Agency de Inovação" and BIOCANT (Cantanhede).
After moving to ITQB in January, 2000, I am heading the laboratory of Genomics and Stress continuing with the research lines about the metabolism of *Desulfovibrio gigas* as well as the study of Stress Response using the budding yeast, *Saccharomyces cerevisiae.* My laboratory pioneered the generation of the first mutants of this bacterium (FEBS Letters, 2005, J.of Bacteriology, 2005). The research lines on the function of the family of TF in *Saccharomyces cerevisiae* is being further developed about their role in response to stress. Yeast is indeed an excellent model to study the mechanisms of gene expression in eukaryotic cells as it is easily manipulated and it has a simple genetics and possesses ortologs of higher eukaryotes. As such the basic functions of many genes of which several genes are associated to human diseases are easily studied.

## ***RESEARCH PROJECTS FINANCIALLY SUPPORTED***

When arriving from France I had immediately research grants financially supported by European Organisms in spite of having also a financial support from FCG. At that time nobody from IGC was asking external financial support.
**1979-1981** - Research Grant 1670 (N.A.T.O.) to collaborate with Prof. D. H. Hayes on "Ribosome biogenesis"

**1982-1983** – Renovated he same grant in view of continuing the same collaboration.

**1983-1984** - Renovated he same grant in view of continuing the same collaboration.

**1987-1990 -** Grant obtained from C.E.E. nº CI 1 0081-P (DSB) to collaborate with Prof. U. Letterer, Weizman Institute of Science, Rehovot, Israel.

**1987-1989 -** Grant obtained from J.N.I.C.T. to collaborate with Professor Pedro Moradas-Ferreira. Principal investigator

**1988-1989 -** Grant obtained from J.N.I.C.T. to implement a Plant Molecular Biology program. Principal Investigator

**1989-1990 -** Grant obtained from C.E.E.- BAP 375 - (EDS) to collaborate with Dr. Juan-Pedro Ballesta and António Jimenez , Centro de Biologia Molecular de Madrid.

**1990-1996 -** Grant obtained from European Union to participate in the network of sequencing the yeast genome

**1996-1998** - Grant obtained from European Union - EUROFAN (European Functional Analysis Network) to participate in the functional analysis of the new genes deciphered during its sequence. Projects: B0-Generation of deletants and corresponding plasmid tools; B4-Protein level expression analysis II: Gene analysis; B9-Novel methods of genome analysis; N4-Stress Responses

**1996-** Grant obtained from PRAXIS XXI, project entitled "Proteínas de *Lupinus albus* que intervêm no desenvolvimento e na reacção a agentes patogénicos" – colaboration with Prof Cândido Pinto Ricardo and Dr. Maria da Conceição Duque-Magalhães

**1997-** Grant obtained from PRAXIS XXI, project entitled "Starting the systematic sequencing of *Desulfovibrio gigas* genome" Presented via ITQB

**1999-2001:** Grant from Praxis XXI /P/BIA/11074/1998 with the project "Expression of *Desulfovibrio gigas* metalloproteins".

**2001-2003:** Grant from POCTI/34967/1999 with the project "Interplay of the transcription factors encoded by YAP gene family in Stress Response". Principal Investigator

**2001**: Project in collaboration with Dr. Michel Toledano with the Project "Etude de deux régulateurs des réponses de stress aux oxydants et aux métaux chez un eucaryote" partial sponsored by the French Embassy, Scientific Division and ICCTI. Oxygen

**2003-2006:** Grant from POCTI 37480 Genes involved in bioenergetic mechanisms in the sulphate reducing bacterium *Desulfovibrio gigas*. Principal Investigator

**2005 – 2008:** Grant da Agency de Inovação para o projecto Gigasnoma to sequence the complete genome of the bacterium *Desulfovibrio gigas*, in collaboration with STAB – Vida

**2009- 2012:** Grant PTDC / BIA-MIC / 70650 / 2006 Transcriptional regulation of the genes encoding the flavodiiron protein ROO and the cytochrome bd respectively of the anaerobe bacterium *Desulfovibrio gigas* upon nitrosative stress: Principal Investigator (189 400,00 €)

**2010- 2013:** Grant PTDC/BIA-MIC/104030/2008 – Metabolic engineering of an anaerobic bacterium for biological hydrogen production, Participant Investigator (155.592,00€)

**2010 – 2013.** Grant PTDC/BIA-MIC/108747/2008 Control of Iron Homeostasis by the Yeast Activator proteins (Yaps) in eukaryotic cells, Principal Investigator (183.648,00 €)

**2010-2012-** Grant in the context of the programme Pessoa, Collaboration with Dr. Frederic Devaux on "RÉGULONS DE YAP8 SOUS LE STRESS IMPOSÉ PAR LES COMPOSANTS DE L'ARSENIC"(10,000 €)

**2009-2011-** Grant from FCT/CAPES on "MECANISMOS MOLECULARES DE DESTOXIFICAÇÃO DOS METAIS ARSÉNIO E CÁDMIO USANDO O MODELO BIOLÓGICO *SACCHAROMYCES*

*CEREVISIAE* " collaboration with Professor Elis Cristina Araujo Eleutherio from the Universidade Federal do Rio de Janeiro, Brasil, (Processo 411.00 €9,000 )

**PUBLISHED WORK**

**THESIS**

**1. 1976-C.RODRIGUES-POUSADA.** "Contribution à la biosynthése des ARN messagers et ribosomiques chez *Tetrahymena pyriformis*". Doctorat 3° cycle, Faculte de Sciences de Paris VII

**2. 1980-C.RODRIGUES-POUSADA.** "Contribution à la biogenése des ribosomes chez ***Tetrahymena pyriformis***". Doctorat d'ETAT ès Sciences, Faculté de Sciences de Paris VII

**PUBLICATIONS (PEER REVIEWED, h.index. 26 and citations 2,806)**

**105.** Ferreira RT, Silva AR, Pimentel C, Batista-Nascimento L, **Rodrigues-Pousada C**, Menezes RA. Arsenic stress elicits cytosolic Ca2+ bursts and Crz1 activation in Saccharomyces cerevisiae. Microbiology, 158(Pt 9):2293-302.

**104.**Pimentel C, Batista-Nascimento L, **Rodrigues-Pousada C,** Menezes RA.(2012) Oxidative stress in Alzheimer's and Parkinson's diseases: insights from the yeast Saccharomyces cerevisiae. Oxid Med Cell Longev. 2012;2012:132146. Epub 2012 Jun 3.

**103.**Batista-Nascimento L, Pimentel C, Menezes RA, **Rodrigues-Pousada C.** Iron and neurodegeneration: from cellular homeostasis to disease. Oxid Med Cell Longev. 2012;2012:128647. Epub 2012 May 30.

**102**.Pimentel C, Vicente C, Menezes RA, Caetano S, Carreto L, **Rodrigues-Pousada C** (2012) The role of the Yap5 transcription factor in remodeling gene expression in response to Fe bioavailability. PLoS One. 7(5):e37434. Epub 2012 May 16.

**101**. da Silva SM, Pimentel C, Valente FM, **Rodrigues-Pousada** C, Pereira IA. (2011) Tungsten and molybdenum regulation of formate dehydrogenase expression in Desulfovibrio vulgaris Hildenborough. J Bacteriol. 193(12):2909-16. Epub 2011 Apr 15.

**100**. Batista-Nascimento L. ., Daniel W. Neef, Phillip C. C. Liu, **Claudina Rodrigues-Pousada** and Thiele DJ (2011) Deciphering Human Heat Shock Transcription Factor 1, Regulation via Post-Translational Modification in Yeast, PLOS ONE, Volume 6, Issue 1 e15976

**99**. **Rodrigues-Pousada C.,** Menezes RA and Pimentel, C., (2010) Yeast activator proteins and their role in stress response YEAST, 27 Issue: 5 Pages: 245-258

**98**. Pereira J, Pimentel C, Amaral C, Menezes RA, **Rodrigues-Pousada** C. (2009) Yap4 PKA- and GSK3-dependent phosphorylation affects its stability but not its nuclear localization. Yeast. 2009 ;26(12):641-653.

**97**.Menezes RA, Amaral C, Batista-Nascimento L, Santos C, Ferreira RB, Devaux F, Eleutherio EC, **Rodrigues-Pousada C**.(2008) Contribution of Yap1 towards Saccharomyces cerevisiae adaptation to arsenic-mediated oxidative stress. Biochem J. 2008 Sep 1;414(2):301-11.

**96**. Catarina Pimentel, Dominique Van der Straeten, Euclides Pires, Carlos Faro and Claudina Rodrigues-Pousada (2007) "Characterization and expression analysis of the aspartic protease gene family of Cynara cardunculus L " FEBS J , Apr 26;274(10):2523-2539.

**95**. Dulce Azevedo, Liliana Nascimento, Jean Labarre, Michel B Toledano, Claudina Rodrigues-Pousada (2007) The S. cerevisiae Yap1

and Yap2 transcription factors share a common cadmium-sensing domain FEBS Lett.Jan 23;581(2):187-95.

**94**. Machado, P., Félix, R., Oliveira, S., and **Rodrigues-Pousada, C**., (2006) Characterisation and expression analysis of the cytochrome bd oxidase operon from *Desulfovibrio gigas* Current Microbiology 52(4):274-81.

**93.** Broco, M., Soares, C.M., Oliveira, S., Mayhew, S. G. and **Rodrigues-Pousada, C., (2007)** Molecular determinants for FMN binding in *Desulfovibrio gigas* FEBS Letters 581 (2007) 4397–4402

**92.** Rodrigues, R., Vicente J., Felix, R., Oliveira, S., Teixeira, M., and **Rodrigues-Pousada, C**., (2006) "*Desulfovibrio gigas* flavodiiron protein affords in vivo protection against nitrosative stress J Bacteriol.188 (8):2745-51.

**91.** Felix R., Rodrigues, R., Machado, P., Oliveira S., **Rodrigues-Pousada, C. (2005)** A chemotaxis operon in the bacterium Desulfovibrio gigas is induced under several growth conditions DNA Sequence. 2006 Feb;17(1):56-64.

**90.** Broco, M., Rousset, M., Oliveira, S., and **Rodrigues – Pousada C.** (2005) Deletion of flavoredoxin gene in *Desulfovibrio gigas* reveals its participation in thiosulfate reduction. FEBS Lett., Aug 29;579(21):4803-7.

**89** – Broco M, Marques, A., Oliveira , S., and **Rodrigues – Pousada C.,** (2005) Characterisation of the 11 Kb DNA region adjacent to the gene encoding Desulfovibrio gigas flavoredoxin. DNA Seq. Jun;16(3):207-16.

**88- Claudina Rodrigues-Pousada,** Nevitt, T. and Menezes, R. (2005). The yeast stress response, role of the YAP family of b-ZIP transcription factors. FEBS J 272, 2639-2647

**87**– Nevitt, T, Pereira, J., **Rodrigues-Pousada, C,** (2004) YAP4 gene expression is induced in response to several forms of stress in *Saccharomyces cerevisiae* Yeast, 21 1365-1374

**86 - Claudina Rodrigues-Pousada**, Tracy Nevitt, Regina Menezes, Dulce Azevedo, Jorge Pereira, Catarina Amaral (minireview) (2004) Yeast Activator Proteins and Stress Response: an overview, FEBS Letters 567,80-85

**85.** Nelson J.M. Saibo, Dominique Van Der Straeten and **Claudina Rodrigues-Pousada (2004)** "*Lupinus albus* γ-tubulin: mRNA and protein accumulation during development and in response to darkness" Planta 219,201-211

**84-** Regina Menezes, Catarina Amaral, Agnès Delaunay, Michel Toledano and **Claudina Rodrigues-Pousada** (2004) Yap8p activation in *Saccharomyces cerevisiae* under arsenic conditions, FEBS Letters 2004 May 21;566(1-3):141-6.

**83.** Tracy Nevitt, Jorge Pereira, Dulce Azevedo, Paulo Guerreiro, and **Claudina Rodrigues-Pousada (2004)** *YAP4* expression of *Saccharomyces cerevisiae* under osmotic stress, Biochemical Journal 379:367-74.

**82.**Dulce Azevedo, Frédérique Tacnet, Agnès Delaunay, **Claudina Rodrigues-Pousada** and Michel B. Toledano (2003) Two redox centers within Yap1 for $H_2O_2$ and thiol-reactive chemicals signalling submitted to Free radical Biology and Medicine Free radicals in Biology and Medicine 35, 889-900

**81.** Rute Rodrigues, Filipa M. A. Valente, Inês A. C. Pereira, Solange Oliveira, and **Claudina Rodrigues-Pousada** (2003) "A Novel Membrane-bound Ech [NiFe] Hydrogenase in *Desulfovibrio gigas*" Biochem.Biophysical Research Communication, 306, 366-375

**80**. .Bruno L. Victor , João B. Vicente, Rute Rodrigues, Solange Oliveira, **Claudina Rodrigues-Pousada** , Carlos Frazão, Cláudio M. Gomes, Miguel Teixeira and Cláudio M. Soares (2003) Docking and Electron Transfer Studies between Rubredoxin and Rubredoxin:Oxygen Oxidoreductase, Journal of Biochemical Inorganic Chemistry, 8(4):475-88.

**79. C.Rodrigues-Pousada:** Genoma Humano: Sequências e Consequências - Jornal a Página (2002)

**78.** Guerreiro P. and **Rodrigues-Pousada, C.,** (2001) Disruption and phenotypic analysis of six open reading frames from chromosome VII of *Saccharomyces cerevisiae* reveals one essential gene.YEAST, 183, 4413-4420.

**77.** Silva G, Oliveira S, LeGall J, Xavier AV, **Rodrigues-Pousada C** (2001) Analysis of the Desulfovibrio gigas Transcriptional Unit Containing Rubredoxin (rd) and Rubredoxin-Oxygen Oxidoreductase (roo) Genes and Upstream ORFs. *Biochem Biophys Res Commun*, 19;280,491-502

**76.**Scarafoni A, Di Cataldo A, Vassilevskaia, Bekman EP, **Rodrigues-Pousada C,** Ceciliani F and Duranti M, (2001) Cloning, sequencing and expression in the seeds and radicles of two Lupinus albus conglutin gamma genes. Biochim Biophys Acta. 1519, 147-51.

**75.** Silva G., LeGall J., Xavier A. V., Teixeira, M. and **Rodrigues-Pousada C**.(2001).Molecular characterization of *Desulfovibrio gigas*

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## ***NATIONAL AND INTERNATIONAL CONGRESSES ATTENDED***

### Conferences

**June 2010 ,** 8 th Workshop on Stress in Biology and Medicine organized in South Korea , Seorak, Conference entitled "Iron Homeostasis in yeast cells"
**October 2009** Congress on Stress in Biology and Medicine organized in Sapporo, Japan by the Cellular stress Society International (CSSI) **"Oxidative Stress Revisited"**

**May 2008** Congress of the Brazilian Society of Biochemistry and Molecular Biology and of the PABMB in the symposium – "Toxicity and Oxidative Stress with the work entitled **"Transcriptional strategy used by yeast cells in response to metals"**

**August 19-24th, 2007** Gordon Research Conferences, Magdelen College, Oxford, UK, Stress Proteins in in Growth, Development and Disease, Conference entitled Yap1 and Yap2 in response to metals and discussion leader of the symposium

**March 21st -25th, 2006** Concepcion, Chile conferência sobre "A broad role for Yap4 in the yeast stress response" Workshop on Stress Response in Biology and Medicine

**March 2006,** Universidade Federal do Rio de Janeiro "Yap factors in *Saccharomyces cerevisiae* under stress conditions"

**September 2005, Tomar,** II International Congress on Stress Responses in Biology and Medicine "Integrating Yap8 and Yap1 role in response to metalloids"

**July17-22, 2005,** Gordon Research Conferences, Stress Proteins in Growth Development & Disease, Salve Regina University, Newport. Conference entitled "Yap8 in response to arsenic compounds"

**July 2004** PABMB Plenary lecture at the 29th Congress of the Federation of European Biochemical Societies, Warsaw, Poland 2004, Yaps transcription factors in *Saccharomyces cerevisiae* : an overview

**June 2003 -** Ecole Normale Supérieure, Paris, invited by dr. Olivier Bensaude "Yap1 and Yap8 in the response to Arsenic stress"

**February 2002** Reunião sobre o Genoma Humano, Coimbra Conference entitled Genoma Humano. Sequências e Consequências"

**September 2nd – 7th, 1997 EMBO Workshop** on "Gene Expression under Stress Conditions"Conference entitled "Mechanisms mediated by the transcription factors, Yap1p and Yap2p, in response to various stresses in *Saccharomyces cerevisiae*".

**- VIII European Congress of Molecular Biology of Ciliates, 21-27 de Julho de 1995, Clermond-Ferrand, França**
Will the Chaperonin CCT be involved in the functional of tubulins in ciliates? **C.Rodrigues-Pousada**, Plenary Conference

**April, 1st -3rd, Ravello, Italia, 1995 - Workshop on "Regulation** on regulation of expression of cell stress genes Conference entitled Stress response mediated by the YAP1 and YAP2 in *Saccharomyces cerevisiae*
**- IX International Congress of Protozoology, Berlin, Germany, July 26th-August 1st, 1993** "Microtubule Biosynthesis in Ciliates: Molecular and Biochemical Approaches" **C.Rodrigues-Pousada** (Invited Speaker)

**-May 1984 Meeting on Ciliate Molecular Genetics, Cold Spring Harbor, Nova York (limit 100 participants), 1984**
"Stress response in *Tetrahymena pyriformis*: Difference between starvation and heat-shock".

***PUBLISHED ABSTRACTS***

"Yap1 cooperates with Yap8 in arsenic stress response by activating the anti-oxidant cell machinery. Menezes, R., Amaral, C., Nascimento, L., Eleutherio, E.C.A., Rodrigues-Pousada. (2007) Yeast 24 (s1):S85

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Post-translational events occurring in Yap4 of Saccharomyces cerevisiae upon stress cues", Jorge Pereira, Tracy Nevitt, Cristina Alves, **Claudina Rodrigues-Pousada,** Yeast 2007; 24: S174;

Yap4p is phosphorylated during yeast response to osmotic stress", Jorge Pereira, Tracy Nevitt and **Claudina Rodrigues-Pousada**, The FEBS Journal, Volume 273, supplement 1 (p.80) June 2006, Istanbul, Turkey

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-Yap4 transcription factor is involved in the response of *Saccharomyces cerevisiae* to osmotic stress. Tracy Nevitt, Paulo Guerreiro, Fernando Fernandes, and **Rodrigues – Pousada, Claudina** XXth International Conference on Yeast Genetics and Molecular Biology , Prague, 2001 Yeast Supplement , 10-63

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"Protein activating Transcription" Conferência proferida por **C. Rodrigues-Pousada**

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**-IV Portuguese-Spanish Biochemistry Congress, Póvoa de Varzim, 29 de Setembro a 2 de Outubro de 1991**

**1**."Molecular Events Associated With Stress Response in Eukaryotic Microorganisms" S6-3, Conferência por convite por **C.Rodrigues-Pousada**

**2**."Molecular Cloning and Sequence Analysis of a beta-tubulin gene from *Lupinus albus*" T. Vassilevskaia, C. Pinto Ricardo e **C.Rodrigues-Pousada**, 1, P4-TU

**3**."Yeast Genes Overcoming Growth arrest Induced by 1-10, Phenantroline" L. Fernandes, P. Bossier e **C.Rodrigues-Pousada**, Abstract 6 P18-Mo

**4**."Structure and Expression of the ubiquitin multigene family in *T. pyriformis*" A. Neves, P. Guerreiro e **C.Rodrigues-Pousada** Abstract 10 P66-We

**5**. "Controlled Induction of Glucoamylase from Yeast *Saccharomyces cerevisiae*. I. Barahona, A. Jimenez e **C. Rodrigues-Pousada**, Abstract F1.1-Mo

**6**. "Sequencing The Yeast Genome: Partial Sequence of Chromosome XI" S. Almeida, S. Mendo, P. Bossier e **C.Rodrigues-Pousada ,** Abstract 11 P113

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**2**."Regulation of the *Tetrahymena SP70* under Heat-Shock and During Recovery ". M. Amaral, L. Galego and **C.Rodrigues-Pousada** .Abstract nº 75

**3**. "Properties and Partial Characterization of the heat-Shock Factor from *Tetrahymena pyriformis*". M.C.Avides, C.Sunkel, P.Moradas-Ferreira and **C. Rodrigues-Pousada,** Abstract nº 81

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**1**. " *Tetrahymena pyriformis* Heat shock factor". M.C. Avides-Moreira, C. Sunkel, P. Moradas-Ferreira, and **C. Rodrigues-Pousada**, Abstract MO 306

**2**. "Acetylation is the major post-translational modification of Cytoskeleton and ciliary alpha tubulin in *Tetrahymena pyriformis*" .D. Penque, L.Galego and **C.Rodrigues-Pousada**, Abstract TU 439
**3**. "Thermotolerance in *Tetrahymena pyriformis:* Correlation betwwen thermic stress and oxidative stress". P.Moradas Ferreira, V.Costa, P. Guerreiro and **C. Rodrigues-Pousada**. Abstract MO 204
**4**. Stress messenger stability under stress and during recovery in *Tetrahymena pyriformis.* M. Amaral, L.Galego, and **C. Rodrigues-Pousada**, Abstract MO 306
**- Gordon Conferences "On Molecular Genetics of Ciliates", 1989, New London, USA** "Cilia Regeneration in *Tetrahymena pyriformis*". Comunicação oral por **C. Rodrigues-Pousada**

**- Meeting "Genetic Engineering of industrial microorganisms". Biotechnology Action Programme, E.E.C, Salamanca, 27-29 , Setembro de 1989**
"Molecular Events Associated to the STA2, L44, L44' and L45 gene expression under heat-shock in *Saccharomyces cerevisiae* aBR10". Comunicação oral por **C.Rodrigues-Pousada**

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**Meeting on "STRESS-INDUCED PROTEINS" Keystone, 4-16, Abril, 1988 USA** "Molecular events occurring in *T. pyriformis* subjected to stress conditions". **C.Rodrigues-Pousada**, L.Galego, I.Barahona, R.Coias and M.Amaral.

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**1**."Possible Factors involved in Transcription of the Tubulin genes of the protozoa *Tetrahymena pyriformis*". I. Barahona and **C. Rodrigues-Pousada**
**2**. "Ubiquitin gene regulation during heat-shock in *Tetrahymena pyriformis*". A. Neves, I.Barahona, and **C.Rodrigues-Pousada**
**3**."Molecular Events occuring in *Tetrahymena pyriformis* subjected to heat and deciliation". L.Galego, R.Coias and **C.Rodrigues-Pousada**

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**1**. "Tubulin Genes in *Tetrahymena pyriformis*: Expression and Post-Translational modifications".

**C. Rodrigues-Pousada**, I., Barahona, D.,Penque, L.Cyrne, and H.Soares. Abstract, SI-2.4. Conferência por **C.Rodrigues-Pousada**

**2**. "Both β-Tubulin genes are functional in *Tetrahymena pyriformis*". H., Soares, I., Barahona, L.Cyrne, and **C.Rodrigues-Pousada**, Abstract, 1-57

**3**. "Characterization of nuclear factors binding to the upstream region of tubulin genes of *Tetrahymena pyriformis*". I., Barahona, L. Cyrne, and **C.Rodrigues-Pousada**, Abstract, 1-39

**4**."Polyubiquitin Genes in *Tetrahymena pyriformis*". A., Neves, I.Barahona and **C. Rodrigues-Pousada**, Abstract, 1-40

**5**."Participation of the Cytoskeleton in African Swine Fever Virus in Replication and Morphogenesis". Z.G.Carvalho, A.P.Alves and **C.Rodrigues-Pousada**, Abstract, 1-35

**6**."Detection of two new beta-tubulin genes in *Tetrahymena pyriformis*". L. Cyrne, I. Barahona and **C.Rodrigues-Pousada**, Abstract, 1-27

**7**."Stability of Stress Messengers in *T. pyriformis* under heat-shock and metaarsenite Conditions during Recovey and in the presence of inhibitors". M.Amaral, L.Galego and **C. Rodrigues-Pousada**, Abstract, 1-48

**8**. "Isotypes of alpha-Tubulin and Evidence of Microtubule Associated Proteins (MAPS) in *Tetrahymend*" D.Penque, L.Galego and **C. Rodrigues-Pousada**, Abstract 1-45

**9**." *Tetrahymena pyriformis* Heat Shock Factor: Purification and Binding Properties" M. C. Avides Moreira, C. Sunkel, P.Moradas-Ferreira and **C.Rodrigues-Pousada**, Abstract 1-68

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"Heat-shock and deciliation modify tubulin mRNAs stability in *Tetrahymena pyriformis*". Comunicação oral por **C.Rodrigues-Pousada**

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**-Joint Meeting of the European Club for muscle and motility and Cytoskeletal Club on Cellular Dynamics, 29 Agosto-2 Setembro, 1987, Tiberias, Israel**

"Tubulin Genes and their Expression in the protozoa *T.pyriformis*". **C.Rodrigues-Pousada, C**onferêncista convidada

**-Participação a convite do Professor François Gros no colóquio organizado pelo C.O.D.E.S.T, Paris, sobre "Biocommunication", 1986**

**-8º Congresso Nacional de Bioquímica, Póvoa de Varzim, 26 Nov. a 1 de Dezembro, 1987**

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**2**. "Sequencing of two beta-Tubulin Genes of *T. pyriformis*" H.Soares, I.Barahona e **C.Rodrigues-Pousada, C**iência Biológica, 12, 5A, 97

**3**. "Loss of Tubulin mRNA stability during heat-shock in *T. pyriformis*". R. Coias, L.Galego, I.Barahona and **C.Rodrigues-Pousada, C**iência Biológica, 12, 5A, 92

**4**."Isolation and characterization of the Ubiquitin gene in *T. pyriformis*". A.Neves, I.Barahona and **C.Rodrigues-Pousada, C**iência Biológica, 12, 5A, 89

**5**."Sequencing of one alpha-Tubulin gene of the protozoa *T. pyriformis*". L.Cyrne, I. Barahona and **C.Rodrigues-Pousada, C**iência Biológica, 12, 5A, 106

**6**."Induction of the stress proteins by sodium meta-arsenite in *T. pyriformis*". Intracellular distribution of heat and arsenite-induced proteins". M. Amaral, L. Galego e **C.Rodrigues-Pousada, C**iência Biológica, 12, 5A, 100

**7**."Tubulin Heterogeneity in *T. pyriformis*". D.Penque, L.Galego, I.Barahona and **C.Rodrigues-Pousada, C**iência Biológica, 12, 5A, 101

**8**."Isolation and Purification of Small Heat-shock Proteins from *T. pyriformis*". M.A.Lemos, A.Amorim, P.Moradas-Ferreira e **C.Rodrigues-Pousada, C**iência Biológica, 1987, 12, 5A, 177

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C.Avides-Moreira, P.Moradas-Ferreira e **C.Rodrigues-Pousada, C**iência Biológica, 1987, 12, 5A, 107

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**1**. "Desvio ao Codigo genético nos ciliados". I.Barahona, L.Cyrne, H.Soares e **C.Rodrigues-Pousada**

**2**. "Identificação do gene actina no protozoário *Tetrahymena pyriformis*". A.Neves, I.Barahona e **C.Rodrigues-Pousada**

**3**."Regulação da expressão dos genes tubulina e dos genes de choque térmico do protozoário *Tetrahymena pyriformis*". L. Galego, R.Coias e **C.Rodrigues-Pousada**

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**- Workshop d'Arolla-Suitzerland (limit de 80 participants), 1985 sobre "Sequences, Factors and Structures".**

Comunicação on "Tubulin genes in *Tetrahymena pyriformis*".

**C.Rodrigues-Pousada**

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1. "Expression of Tubulin and Actin genes under heat-shock in *Tetrahymena pyriformis*". Invited Conference **C. Rodrigues-Pousada**

2. Characterization Tubulin genes in *Tetrahymena pyriformis"*
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**- 16º FEBS Meeting, Moscovo, 1984**

"Molecular cloning of Tubulin genes in *Tetrahymena pyriformis*"
Comunicação oral por **C.Rodrigues-Pousada**

**- 15th FEBS Meeting, Bruxelas , 24-29 de Julho, 1983**

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**2**."Clonagem de um gene beta-tubulina de *Tetrahymena pyriformis*". I.Barahona e **C.Rodrigues-Pousada**

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**1**. "Poly(A) RNA from *Tetrahymena pyriformis* membrane-bound and

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**2**.Polyadenylate-containing ribonucleic acid in *Tetrahymena pyriformis* in growing and starved cells". M.L. Galego e **C. Rodrigues-Pousada**

**3**."Characterization of the poly(A)-containing RNA from *Tetrahymena pyriformis* membrane-bound and free polyribosomes". I.Barahona e **C.Rodrigues-Pousada**

**4**."mRNA metabolism in *Tetrahymena pyriformis* " M.L.Galego e C.Rodrigues-Pousada, Abstract nº S9-29, Biochemical Society Transactions nº 2, 172-P

**Reunião de Bioquímica, Porto, 1979**

"Methylation of ribosomal proteins in ribosomal subunits from *Tetrahymena pyriformis*". M.L.Cyrne e **C.Rodrigues-Pousada, C**iência Biológica 5, 441-442

**- 12º FEBS Meeting, Dresden, 1978**

"Pre-rRNP particles in *Tetrahymena pyriformis*".**C.Rodrigues-Pousada** e D.H.Hayes, Abstract 1661

**- 11º FEBS Meeting, Copenhaga, 1977**

"Isolation of active ribosomal subunits from *Tetrahymena pyriformis*". **C.Rodrigues-Pousada** e D.H.Hayes. Abstract A2-9-205.

**- Mesa Redonda sobre as particulas ribonucleoproteicas, Forum des Jeunes, Lisboa, 1976, Organizado pela Sociedade de Chimie Biologique Française,** Participação com o tema "Le Metabolism et maturation de l'ARN messager des Eucaryotes".

"RNA messagers de *Tetrahymena pyriformis*". **C.Rodrigues-Pousada** e D.H.Hayes. Comunicação oral por **C. Rodrigues-Pousada**

**- 10º FEBS Meeting, Paris, 1975**

"Characterization of the RNA species containing polyadenylic acid in *Tetrahymena pyriformis*". **C.Rodrigues-Pousada** e D.H.Hayes, Abstract nº 261

**- 9th FEBS Meeting, Budapest, 1974**

"Cytoplasmic ribosomes of *Tetrahymena pyriformis*". Abstract number 14, **C.Rodrigues-Pousada** and D.H. Hayes

**- Colloque sur l'ATP differentiation cellulaire, Orsay, France**

"Comparaison du micronoyau et du macronoyau Tetrahymena pyriformis et leurs DNA. Characterisation du ribosome cytoplasmique de *Tetrahymena pyriformis* et l'étude du metabolisme nucleaires des RNA ribosomiques precurseurs". D.H.Hayes, L.Marcaud, M.M.Portier et **C.Rodrigues-Pousada**.

**- 3ª Reunião da Sociedade Portuguesa de Farmacologia,** Coimbra, 1972

"Estudo comparado dos polisomas de fígado de ratos normais tratados pelo metil-colantreno". **C.Rodrigues-Pousada** e M.C., Lechner.

**- 4º Congresso Nacional de Bioquímica, Lourenço Marques, Moçambique, 1972**

"Rat liver polysome stabilities and RNase activities after methyl-cholantren treatment". **C.Rodrigues-Pousada** and M.C Lechner

**- 2ª Reunião da Sociedade Portuguesa de Farmacologia, Porto, 1971**

**1**."Efeito do metil-colantreno sobre as ribonucleases ribosomais e microsomais hepáticas". **C.Rodrigues-Pousada** e M.C.Lechner

**2.** "Sobre a Natureza da taxa das RNases microsomais hepáticas produzidas pelo indutores gerais".
M.C. Lechner e **C. Rodrigues-Pousada**

**3.** "Modification in the RNase/Inhibitor system in rat liver microsomes and cytosol induced by phenobarbital".
M.C.Lechner and **C.Rodrigues-Pousada**

**4.**"TLC technique applied to the study of nucleotide composition of RNA isolated from free and membrane-bound rat liver ribosomes".
M.C.Lechner and **C.Rodrigues-Pousada**

**- 1ª Reunião da Sociedade Portuguesa de Farmacologia, Oeiras, 1970**

"Ribonuclease microsomal hepatica e indução enzimática".
M.C.Lechner e **C.Rodrigues-Pousada**

**<u>Other CONFERENCES</u>**

*Listed only from 1975 to 1996.*

19th December at the Center de Neurochimie, Strasbourg,
Invitation by Prof. Mandel, "Characterisation des ARN contenant des Sequences Poly(A) chez *Tetrahymena pyriformis* "

June 1976 in the laboratory of "Biologie Moleculaire et physiopathologie Cellulaire, Institut Gustav Roussy, Villejuif Invitation by Prof. Harel "Metabolism des ARN ribosomaux et messagers chez *Tetrahymena pyriformis*"
November 1979 at the Institut de Biologie Physico-Chimique,
Invited by Prof. D. Hayes, "Particules preribosomales dans le protozoaire *Tetrahymena pyriformis* ".

February 1980 at the Instituto Gulbenkian de Ciência, Oeiras
" *Tetrahymena pyriformis* como modelo para o estudo do ribosoma de célula eucariota"

May 1983, at the Jornadas de Bioquímica do Porto, entitled "Regulação da expressão genética em condições de stress ambiental".

June1984, at Institut Pasteur, invited by Prof. F. Gros, on "Regulation de l'expression genétique pendant et après le choc thermique. Possibles implications du cytosquelette"

March 1985, at the Instituto de Biomédicas Abel Salazar, on " Clonagem dos genes tubulina e seu interesse nos programas de trabalho em curso".

April 1985, at the Special FEBS Meeting do Algarve on "Stress and cytoskeleton"

April 1986, University of Perpignan, Invited by Dr. Michel Delseny,on "Regulation de l'expression genétique pendant le choc thermique chez *T. pyriformis*

April 1987, at the Department of Biology of the University of Rochester, Invited by Prof. M. Gorovsky on "Tubulin genes in *Tetrahymena pyriformis*: Comparison with other eukaryotic tubulin genes".

May 1988 at Centro de Citologia Experimental, University of Porto a convite da Professora Maria de Sousa "Os genes tubulina de *Tetrahymena pyriformis*: Comparação com outros genes tubulina de sistemas eucariontes"

September 1988 at the Departament of Biochemistry Free University of Amsterdam, invited by Prof.Dr.Rudi Planta "General features of stress response in *Tetrahymena pyriformis*"

June 1989 at the Departament of Neurobiology, Weizmann institute of Science, invited by Prof.Uri Littauer "Tubulin Gene Expression during reciliation and under heat-shock conditions on *Tetrahymena pyriformis*"

July 10th 1989 at the Departament of Genetica of the Rijksuniversiteit Gent, invited by Prof. Dr.Marc Van Montagu, Tubulin Gene Expression in *Tetrahymena pyriformis* during reciliation and under heat shock conditions"
Junho 2nd 1992 at College de France, Laboratoire de Biochimie Cellulaire, invited by Prof .François Gros *Tetrahymena* - Modéle d'étude de la biogénèse des microtubules cellulaires"

May 25th, 1992 at Centre de Genétique Moleculaire de Gif-Sur-Yvette a convite da Dra Janine Beisson "Biosynthèse du Cil chez *Tertrahymena pyriformis*"

May 27th 1992 at the laboratory Genetique Moleculaire de l'Ecole Normale Superieure, invited by Prof.Claude Jacq "Les facteurs de transcription *YAP1* and *YAP2* de *Saccharomyces cerevisiae* donnant resistance a 1,10-phenantroline"

July 25th-27th 1994, Free University of Amsterdam, Department of Biochemistry invited by Prof Dr.Rudi Planta, Conferences by Claudina Rodrigues-Pousada
1. Biosynthesis of Microtubules in ciliates: Mechanisms of tubulin messenger RNA regulation during reciliation e
2 Proto-oncogenes in Yeast,

January 1995 at the Departament of Zoology invited by Prof Dr Arsélio Pato de Carvalho
"Stress Response mediated by the transacting factors YAP1 and YAP2 in *Saccharomyces cerevisiae*"

November 1995 at the University de Orsay, Laboratoire de Génétique, Invited by Dr.Monique Bolotin-Fukuhara, Possible rôle des facteurs de transcription yAP1 et yAP2 dans la réponse au stress chez *S. cerevisiae*

7th March 1996 invited by Prof. Dr. Marc Van Montagu
The transcription factors YAP1and YAP2: Their involvement in mediating the stress response of *Saccharomyces cerevisiae*.

June 1996, invited by Prof Claude Jacq, Ecole Normale Supérieure
"Facteurs de transcription de la levure *S.cerevisiae* yAP1 et yAP2 chez la levure *S.cerevisiae*: régulation de leur expression, et rôle potentiel dans la réponse aux Stress"

## PEDAGOGIC ACTIVITY

### Pre-graduation teaching

**1978 to 1985** – Several blocs of Molecular Biology taught to the students of Medicine, ICBAS at the University of Porto

**1987 to 1993** – Launched and lectured the course of Genética da Faculdade de Ciências Universidade de Lisboa, graduation in Biochemistry

**1985 – 2001 -** Lectured Molecular Biology II to the graduation of Biochemistry at the University of Porto

### Supervision of Pre-Graduated Students:

### 1 – GRADUATION

**1977**

**1.M. Leonor Dinis Cardoso.**
Title- "Método de isolamento das subunidades ribossomais do protozoario *Tetrahymena pyriformis*".Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1980**

**2.Isabel Barahona**.
Title: "Caracterização dos RNA poli (A+) das fracções dos polissomas livres e ligados às membranas de *Tetrahymena pyriformis*". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**3.Lisete Galego.**
Title: "Estudo metabólico do mRNA do protozoário *Tetrahymena pyriformis* em crescimento exponencial, fase estacionária e jejum". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**4.Paula Contenças.**
Title: "Análise por electroforese bidimensional das proteínas das particulas precursoras ribossomais do protozoário *Tetrahymena pyriformis*". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**5.1981**
**M. João Caboz Correia.**
Title: "Regulação do metabolismo do RNA ribossomal no protozoário *T.pyriformis* durante o jejum de um amino ácido essencial". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**6.1982**
**M.Luisa Magalhães**
Title: "Possível relação entre a transcrição dos RNA mensageiros para as proteínas ribossomais e a transcrição do RNA ribossomal no protozoário *T.pyriformis*". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1985**
**7.Deborah Penque-Vicente.**
Title: "Contribuição ao estudo das proteínas, tubulinas, no protozoário *Tetrahymena pyriformis*". Tese de licenciatura, Faculdade de Ciências da Universidade de Lisboa

**1986**
**8.Helena Soares.**
Title: "Sequenciação parcial dos genes β-tubulina no protozoário *Tetrahymena pyriformis*". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1989**

**9.Julia Morales.**

Title: "Organisation moleculaire des genes b-tubulines chez *Tetrahymena pyriformis*". Tese de licenciatura, Faculdade de Ciências Paris VII. Erasmus Programme

**10.Manuel Galvão**

Title: "Isolamento de um fragmento de DNA contendo informação codificando para uma $\alpha$-tubulina de *Lupinus albus*". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1990**

**11. Lucile Miquerol**.

Title: "Organisation et characterisation d'un gene de fusion chez *Tetrahymena pyriformis*". Tese de licenciatura, Faculdade de Ciências Paris VII. Erasmus Programme

**1991**

**12.Lisete Celestina Perpétua Fernandes.**

Title: "Genes de *S. cerevisiae* que induzem a proliferação celular na presença de 1,10-fenantrolina:clonagem e caracterização". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1992 -**

**13.António Alfredo Coelho Jacinto.**

Title: "Contribuição para o estudo dos genes ubiquitina em *Lupinus albus* L". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1992**

**14.Ana Pombo.**

Title: "Regulação transcricional do gene *HSP26* em *Saccharomyces cerevisiae,* durante a fase de crescimento estacionário". Tese de licenciatura, Faculdade de Ciências de Lisboa.

**1992**

**15.Dominique Rocha.**

Title: "Identification et characterisation d' un clone de *Saccharomyces cerevisiae* permettant la proliferation cellulaire en presence de 1,10-phenantroline." Tese de licenciatura, Faculdade de Ciências Paris VII Erasmus Programme

**1993**

**16. Fabrice Savarit.** Title: "Identification des genes gamma-tubuline chez *Paramecium tetraurelia*". Tese de licenciatura apresentada à Faculdade de Ciências de Paris VII Erasmus Programme

**1993**

**17. Carla Mouta** em co-supervision com a Doutora Helena Antunes Soares

Title: "O gene Tcp1 no protozoário ciliado *Tetrahymena pyriformis* : sequenciação parcial e estudo da sua expressão." Tese de licenciatura apresentada ICBAS, Universidade do Porto

**1995**

**18. Ana Cristina Cardoso** co-supervision com a Doutora Luísa Cyrne

Title: "Caracterização dos genes codificando para as proteínas CCT envolvidas no "folding" das tubulinas" Tese de licenciatura apresentada á Faculdade de Ciências de Lisboa

**1995**

**19. Cristina Casalou** co-supervision com a Doutora Maria Helena Antunes Soares

Title: "Caracterização dos complexos contendo as proteínas chaperoninas CCT em *Tetrahymend*" Tese de licenciatura apresentada á Faculdade de Ciências de Lisboa

**1996**

**20. Sandra Penélope Freitas**

Title: "Efeito da superexpressão dos genes *YAP1* e *YAP2* na resistência a vários agentes de "stress": Estudo da activação pós-traducional das proteínas por eles codificados." Tese de licenciatura apresentada á Faculdade de Ciências de Lisboa

**1996**

**21. Berta Maria Martins**

Title:"Clonagem e Sequenciação de um Fragmento de DNA da Unidade Policistrónica Contendo a Região codificante para a Aldeído Oxido-Redutase de Molibdénio de *Desulfovibrio gigas"* Tese de licenciatura apresentada à FCTUNL da Universidade Nova de Lisboa

**1997**

**22. Ana-Lisa di Cataldo**

Title: Poly A RNAs isolation from the plant *Lupinus albus.*
Under the Programme Socrates, University of Milan

**SUPERVISION OF POST-GRADUATION Thesis Master or EQUIVALENT:**

**15-** Soraia Caetano

**14** – Cristina Vicente – January (2011) (UNL)

**13-** Joana Ropio (UNL) – October 2010

**12 -** Ana Raposo – (IST) – March (2010)

**11.** Liliana do Nascimento (2005)

Title: Construção do supermutante nos factores de transactivação da família dos Yaps a ser discutida na Universidade de Aveiro.

**10. Nelson Saibo (1997);**

Title: Caracterização do gene LA-ACS1 da família multigénica das ACC-sintases em *Lupinus albus*: expressão durante o desenvolvimento e em resposta ao tratamento com hormonas, Apresentada à Faculdade de Ciências (UL)

**9. Ana Mafalda Escobar Henriques (1996);**

Title: Detecção dos genes regulados pelos factores de transcrição yAP1 e yAP2 em *Saccharomyces cerevisiae;* Apresentada ao IST (UTL);

**8. Maria Leonor Tavares Saúde (1996);**

Title: Stress Osmótico na levedura *Saccharomyces;* IST(UTL);

**7. Cristina Margarida Morgado(1994);**

Title: Caracterização parcial das proteinas yAP1 e yAp2 de *Saccharomyces cerevisiae*, factores de transcrição homólogos a família AP-1 de oncoproteinas de mamifero. IST (UTL);

**6.Cristina Gameiro Vilela (1994);**

Title: Caracterização de um fragmento do genoma de levedura *Saccharomyces cerevisiae*. Estudo e expressão de um gene homólogo ao gene de adrenoleucosdistrofia humana. Faculdade de Ciências(UC);

**5. João Varela (1991);**

Title: Regulação Transcricional em *Saccharomyces cerevisiae*, aBR10, Submetida a Condições Severas de Choque Térmico, Apresentada à FCT (UNL);

**4.Luisa Cyrne(1987);**

Title: Sequenciação de um gene alfa-tubulina do protozoário *Tetrahymena pyriformis*. Apresentada Faculdade de Ciências(UL);

**3.Margarida Amaral (1986),**

Títle :A resposta do protozoário *Tetrahymena pyriformis* a um agente agressor: o metarsenito de sódio. Apresentada à Faculdade de Ciências UL;

**2.Rui Cóias (1986);**

Title:Expressão da tubulina no choque térmico em Tetrahymena pyriformis. Apresentada à FCT (UNL);

**1.Ana Neves (1986);**

Title: Construção de um banco genómico de *Tetrahymena pyriformis* no vector EMBL4. Detecção de clones positivos para actina.Apresentada à FCT (UNL);

**3. Supervision of PhD Thesis**

**1.-Lisete Galego-Dias (1986)**

Title: Alteração da expressão genética no ciliado Tetrahymena pyriformis em resposta a condições ambientais adversas. Tese de doutoramento pelo Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto.

Actually Investigator at ITQB

**.2.-Isabel Barahona. (1986)**

Title: Contribuição ao estudo dos) genes tubulina no protozoário *Tetrahymena pyriformis*. Tese de doutoramento, Faculdade de Ciências da Universidade de Lisboa,

Actually Professor "Auxiliar" of the Instituto Superior de Ciencias da Saude-Sul, (Costa da Caparica)

**3.-Zilda Gama Carvalho (1988)**

Title: "Virus da peste suina africana: regulação da expressão genética e relações entre a replicação viral e a arquitectura celular". Tese de doutoramento, I.C.B.A.S., (UP)
Deceased in 1995 and she was investigator at IGC

**4.-Ana de Sousa Neves (1991)**

Title: "Estrutura e Expressão da Família Multigénica Ubiquitina em *Tetrahymena pyriformis*". Tese de doutoramento, Faculdade de Ciências da Universidade de Lisboa
Actually Professor " Coordenadora" of the Instituto Politécnico de Santarém

**5.-Maria Helena Antunes Soares. (1992 )**

Title: "Genes beta Tubulina no protozoário ciliado *Tetrahymena pyriformis*: estrutura, expressão e regulação". Tese de doutoramento, I.C.B.A.S., Universidade do Porto
Actually Professor "Coordenadora" at Escola Superior de Tecnologia da Saúde de Lisboa,

**6.-Maria Margarida Amaral Cardoso Botelho. (1993)**

Title: "Proteínas de "stress": Indução e regulação em *Tetrahymena pyriformis*". Tese de doutoramento, Faculdade de Ciências da Universidade de Lisboa
Actually Professor with "Agregação" of the Faculdade de Ciências de Lisboa and Investigator at the Institute Ricardo Jorge

**7.-Deborah Penque Santos Vicente. (1993)**

Title: "Contribuição ao estudo dos Microtúbulos no ciliado *Tetrahymena pyriformis*" Tese de doutoramento, Faculdade de Ciências da Universidade de Lisboa.
Actually Investigator at the Instituto Ricardo Jorge

**8.-Rui Coias Ferreira. (1993)**

Title: "Stress Celular em *Tetrahymena pyriformis*:
Tradução e estabilidade dos RNA mensageiros da tubulina. Tese de doutoramento, Instituto de Ciências Biomédicas Abel Salazar, (UP)
Actually Medical Doctor and Director of the " Centro de Saúde" of Paço de Arcos

**9- Maria Luísa Santos de Sousa Cyrne (1993)**

Title: Estudo de possíveis factores de ligação aos elementos *cis* detectados na região promotora dos genes tubulina em *Tetrahymena pyriformis*. Faculdade de Ciências da Universidade de Lisboa
Actually Auxiliary Professor the Faculdade de Ciências de Lisboa .

**10. Uli Thoenes PhD,** University of Munich
Actually Representative of a Company in Germany
**11.- Paulo Jorge Guerreiro (1996)**
Title: Os genes Poliubiquitinas em *Tetrahymena* : Estrutura, Expressão E Análise comparativa entre as Espécies *T.pyriformis e T. thermophila*. Apresentada ao Instituto de Ciências Biomédicas Abel Salazar (U P)
Actually Professor and President of the Pedagogic Commission of the Escola Superior de Tecnologia da Saúde de Lisboa,
**12-Tatiana Vassielevskaia (1996)**
Title: "β-Tubulin Genes in the plant *Lupinus albus*: Expression during development and under light and dark conditions" Apresentada á Universidade do Porto, Instituto de Ciências Biomédicas Abel Salazar. (UP)
Actually Investigator at Champalimaud Center
**13-Ana Paula Alves Regalado (1998);**
Title: Proteínas do fluido intercelular de *Lupinus albus*:clonagem do cDNA e estudos de expressão genética de uma quitinase da classe III, Faculdade de Ciências da Universidade de Lisboa (em cosupervisão com o Professor Candido Pinto Ricardo)
Actually Research Technic at IGC
**14-Evguenia Pavlovna Bekman (1999)**
Title: Estudo da familia multigenica ACC sintetase em *Lupinus albus* e expressão durante o desenvolvimento. Apresentada á Universidade do Porto, Instituto de Ciências Biomédicas Abel Salazar (UP)
Actually Investigator at the Molecular Medicine Institute
**15-Lisete Perpétua Fernandes (1999)**
Title: Estudo da heterodimerização dos factores YAP1 e YAP2. Estudo dos mecanismo das etapas de transdução de sinais em que estes factores estão envolvidos, apresentada à Faculdade de Ciências de Lisboa, 1999
Actually Professor at the "Escola Superior de Tecnologia da Saúde de Lisboa"
**16-Cristina Vilela (1999)**
Title: Implicação das pequenas grelhas de leitura na regulação da expressão dos genes *YAP1* e *YAP2* em *Saccharomyces cerevisiae*: Implicação em situações de "stress" . Apresentada ao ICBAS (UP)
ActuallyInvestigator at the Posttranscriptional Control Group, Department of Biomolecular Sciences, UMIST, Manchester, UK.
**17 - Margarida Duarte (2000)**

Title: Bases Moleculares Da Virulência E Hemadsorção No Sisolados Nacionais Lisboa 60 E Lisboa 68 Do Virus Da Peste Suina Africana – Apresentada no ITQB (UNL)
Actually Investigator at the Institute de Veterinária in Benfica

**18 - Gabriela Silva (2001)**
Title: Genes contained in two DNA fragments of *Desulfovibrio gigas* Genome: Molecular characterisation of the metalloproteins Rubredoxin – Oxygen Oxido reductase and Neelaredoxin. Apresentada ao ITQB (UNL)
Actually Researcher at the Institute of Oncology

**19- Nelson José Madeira Saibo (2003)**
Title: Hormonal Effects on Hypocotyl Growth and Cytosakeletal Organization in Higher Plants, Universiteit Gent with co-supervision of Professor Dominique Van Der Straeten
Actually Auxiliary Investigator at ITQB

**20 – Dulce Alexandra Azevedo (2004)**
Title: Sensing thiol-reactive compounds by the bZIP transcription factors Yap2, and Yap1 in the yeast Saccahromyces cerevisiae, ITQB (UNL)
Actually post-doctoral student at the Molecular Medicine Institute and Professor at the Escola Superior de Tecnologia da Saúde de Lisboa

**21- Manuela Broco (2005) November 21st**
(ITQB-UNL) Title missing
Actually Representative of VWR

**22- Tracy Nevitt (2005) December 21st**
Towards understanding the functional role of Yap4 in the Yeast response to hyper-osmolority (ITQB-UNL)
Actually –Associated Professor the University of Missouri

**23 – Rute Rodrigues (2006)**
Title: Funcional Analysis of *Desulfovibrio gigas* ROO and EcHh
Actually -Investigator at the Biotechnoloy Company in Bilbao, Spain

**24 – Catarina Pimentel (2006)** (co-supervision with Professor Carlos Faro, UC) November 25th
Caracterização molecular e funcional da região promotora dos genes das cardosinas
Actually Post-doctoral student at the Genomics and Stress Laboratory

**25 – Jorge Augusto Machado Pereira (2008)** Deciphering the role of Yap4 phosphorylation under stress conditions (ITQB-UNL)

Actually Post-doctoral student at the University of Madeira
**26.** Catarina Amaral: Role of Yap8 and Yap1 in Saccharomyces crevisiae exposed to arsenic stress, presented to the ITQB (UNL), 22 nd January 2010.
Actually Post-doctoral Student at the Genomics and Stress Laboratory
**27. Liliana Batista-Nascimento (2012)** (ITQB-UNL) Yeast as a model system to study genetic and post-translational regulation of metabolic pathways in mammals, 18 June

***Ongoing thesis***
**28. Fabio Silva** (ITQB-UNL) –
**29. Ana Rita Tomé** (ITQB-UNL) –
**30. Soraia Caetano (ITQB/UNL)**

**POST-DOCTORAL SUPERVISION**

**1987 - 1991** - Isabel Barahona
Project "Expressão de genes das glucoamilases dependentes dos promotores dos genes de choque térmico"
**1987 - 1990,** Lisete Galego
Project: Regulação da expressão genética em condições de stress hipertermico;
**1990 - 1994** - Peter Bossier
Project: Mecanismos de resistencia ao Stress hipertermico;
**1992 - 1998 -** Helena Antunes Soares
Project: Biosíntese dos microtúbulos;
**1993 - 1995**- Pascale Dupuis
Project " Clonagem dos genes gamma–tubulina nos ciliados *Tetrahymena e Paramecium"* Grant Human Capital and Mobility of the European Commission ;
**1993 - 1996** - Luisa dos Santos de Sousa Cyrne
Project: Identificação das partículas contendo as chaperoninas envolvidas na maturação das tubulinas;
**1997-1998** – Alessio Sacarafoli
Project " Estudo dos genes da Conglutina gamma em Lupinus albus";
**1995 – 1998 -** Isabel Solange de Oliveira
Project : Estudo molecular de metaloproteínas de *Desulfovibrio gigas*;
**1997 – 2002** – Paulo Guerreiro

Project: Stress osmótico in Yeast and Contribuição para a rede EUROFAN, six pack;
**2002 – Present -** Regina Menezes
Mecanismos de destoxificação pelo metaloide arsénio
**2006-2007** – Tracy Nevitt
Yap4 and its function in Stress Response
**2007- Present** – Catarina Pimentel
Stress Response under Iron overloading
**2010-2011** - Marcos Pereira
DNA damage by several agents of stress
**2010-Present Catarina Amaral**
DNA binding specificity of the Yap Transcription factors

**Students under the projects of the European Union and National Projects**

**1992-1994- Alexandra Maia e Silva**
EU Project EUROFAN

**1994-1995 - Tânia Melo Barreiros**
EU PROJECT Sequencing the Yeast genome

**Janeiro 1994 a Maio de 1994** - Ewald H. Hettema
Project Determination of the ortologous of ALD function designated as Pat1 (see publication 54)

**1994 - Uli Thoenes**
Collaboration with Professor Robert Huber (Munich, Alemanha) (see publication 46)

**1995- 1996 - Dulce Azevedo** (Licenciatura em Biologia pela Universidade de Lisboa) Project "Mass Murder"

**1998-1999- Manuela Broco**
– Colaborator of the project Praxis XXI /P/BIA/11074/1998 "Starting the sequencing of the genome of *Desulfovibrio gigas*"

**1999-2001 Rute Rodrigues**

Grant from Praxis XXI /P/BIA/11074/1998 with the project "Expression of Desulfovibrio *gigas* metalloproteins".

**2001- Fernando Fernandes**,

Grant from SAPIENS/34967/1999 with the project "Interplay of the transcription factors encoded by YAP gene family in Stress Response".

**2004- 2005 - Rute Felix**

GRANT POCTI 37480 "Genes involved in bioenergetic mechanisms in the sulphate reducing bacterium *Desulfovibrio gigas*"

**2004 – 2005 - Patricia Machado**

Grant from the project POCTI 37480 Genes involved in bioenergetic mechanisms in the sulphate reducing bacterium *Desulfovibrio gigas*

## POST-GRADUATION TEACHING

### 1. Organization of Advanced Courses

**1984:** Workshop on "Lower Eukaryotic Organisms as Model systems for Cellular and Molecular Biology" Oeiras 20-31 August, 1984

**1989**: Intensive International Course on "Molecular Genetics of Yeast" Oeiras, 29 May - 9 June, 1989

**1992:** Course I.C.R.O/UNESCO intitulado "Molecular Response of cells to Stresss" - "Regulação da expressão genetica em microorganismos eucariontes

**1992:** Lectures to the ERASMUS students at the University Paris, VII, Faculté de Sciences on "Microtubules in ciliates"

**1993:** First Advanced course to the students in Biology and Biomedicine on " Regulação da expressão genética em condições de Stress hipertérmico - IGC and University of Porto (1º PDGBM)

**1994**: Advanced Course on Poteíns of DNA Interaction of the 1st bloc on Structure and function of proteins and DNA" 2º Program Gulbenkian de Doutoramento, 14-18 de Dezembro, Coordenadora do bloco e Professora : Ministraram-se aulas teóricas e discussão de artigos científicos (2ºcurso do PDGBM).

**1995:** Curso intensivo sobre Proteínas de Interacção com o DNA integrado no 1 bloco "Structure and function of proteins and DNA" 3º Programa Gulbenkian de Doutoramento, 14-18 de Dezembro, Coordenadora do bloco e Professora : Ministraram-se aulas teóricas e aulas práticas (3º Curso do PDGBM)

**1996:** Aulas teóricas dadas aos alunos de pós-graduação do Centro de Citologia da Universidade do Porto integrado no bloco "Oxidative Stress"

**1997:** Curso intensivo sobre Proteínas de Interacção com o DNA integrado no 1 bloco "Structure and function of proteins and DNA" 3º Programa Gulbenkian de Doutoramento, 14-18 de Dezembro, Coordenadora do bloco e Professora : Ministraram-se aulas teóricas e aulas práticas (4º Curso do PDGBM)

**1998 -** Coordenadora dos blocos "PROTEIN FOLDING" e "FROM DNA PROTEIN STRUCTURE TO THE MECHANISMS OF DNA REPLICATION AND TRANSCRIPTION" de 30 de Outubro - 11 de Novembro ministrados aos alunos do 5º curso de doutoramento Gulbenkian em Biologia e Medicina. O primeiro teve a colaboração do Dr Masataki Mori e Dra. M.Helena Antunes Soares e o segundo para além de mim própria do Dr. Olivier Bensaúde, Dra Luisa Cyrne e Dr. Olivier Hyrien e da Lisete Fernandes.

**2.Master Thesis**

**1**. Durante cinco semanas um curso de mestrado em Biotecnologia, especialidade Biologia Molecular, sobre "Mecanismos Pós-transcricionais" Dezembro de 1985

**2**. Em 1988 durante cinco semanas de um curso de mestrado em Biotecnologia especialidade em Bioquímica sobre "Mecanismos de expressão genética em células eucariotas" ao abrigo da colaboração entre a Universidade Nova de Lisboa e o Instituto Gulbenkian de Ciência. . Foram dadas aulas teóricas e praticas

**3**. Em 1990 e em 1991 duas semanas curso de Biologia Molecular no Mestrado de Imunologia, organizado pela Prof.Dra. Maria de Sousa, Universidade do Porto, ICBAS. Foram ministradas aulas teóricas e práticas

**4**. Em 1994 durante três semanas, curso de Biologia Molecular no Mestrado de Bioquimica e Fisiologia de plantas. Organização de Cândido Pinto Ricardo e João Daniel Arrabaça. Foram dadas aulas teóricas e discussão de artigos científicos relacionados com as aulas teóricas.

**5**. Em 1995 durante quatro semanas, curso de Biologia Molecular no Mestrado de Bioquimica e Fisiologia de plantas. Organização de Cândido Pinto Ricardo e João Daniel Arrabaça. Foram dadas aulas teóricas e discussão de artigos cientificos relacionados com as aulas teóricas.

## PARTICIPATION IN JURY OF SEVERAL EXAMINATIONS

Participated in many Jury of PhD Thesis, Agregação and Equivalence of PhD thesis obtained abroad

## MEMBER of the SCIENTIFIC SOCIETIES

-Sociedade Portuguesa de Bioquimica
-American Society of Microbiology
-New York Academy of Science
-Société de Chimie Biologique Française
- American Society of Biochemistry and Molecular Biology
-Cellular Stress Society International - Life Member