

# Patrícia da Conceição Ferreira dos Santos

Department of Biochemistry and Molecular Biology

University of Nevada Reno

Reno, NV, 89557, USA

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## Education

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- Python Software for Beginners** **2013**  
Technology Training – Information Technology Services  
Michigan State University, East Lansing, MI
- Beginner Applied Bioinformatics Workshop** **2013**  
Michigan State University, East Lansing, MI  
Organizers: Robin Buell, Elsa Gongora, Candy Hirsch, Cody Hirsch,  
Peter Hamilton, Kevin Childs, John Johnston
- Oomycete Bioinformatics Training Workshop,** **2013**  
Virginia Bioinformatics Institute  
Virginia Polytechnic Institute and State University, Blacksburg, VA  
Organizer: Brett Tyler
- Ph.D. Cytogenetics and Molecular Biology** **2005**  
Madeira University, Madeira, Portugal  
Dissertation: "Molecular Aspects of Orange Rust (*Hemileia Vastatrix* Berk & Br)  
Resistance Responses in Coffee (*Coffea Arabica* L.)."  
Supervisors: Ana Ribeiro, Diana Fernandez, Manuela Gouveia
- Advanced training in Transcriptomics (Macroarrays)** **2002-2003**  
Laboratoire de Biologie Moléculaire, UR Résistance des Plantes  
Institut de Recherche pour le Développement (IRD), Montpellier, France  
Supervisor: Diana Fernandez
- Advanced Training in Construction of Suppressive Subtractive  
cDNA Libraries** **2002**  
Laboratoire de Biologie Moléculaire, UR Résistance des Plantes  
Institut de Recherche pour le Développement (IRD), Montpellier, France  
Supervisor: Diana Fernandez
- Cambridge English: First Certificate in English** **1999**  
Cambridge School, Lisbon, Portugal
- B.A. + M.S. (Licenciatura) Applied Plant Biology** **1996**  
University of Lisbon, Lisbon, Portugal  
Dissertation: "Acclimation of *Cynara cardunculus* L (cardoon) to Different  
Temperature Regimes."  
Supervisors: Maria Manuela Chaves, João Santos Pereira

## Research Experience

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- Senior Research Associate** **2013-Present**  
Michigan State University, East Lansing, MI  
Supervisor: Martin Chilvers  
([chilvers@msu.edu](mailto:chilvers@msu.edu))

<b>Research Associate</b> Michigan State University, East Lansing, MI Supervisor: Brad Day ( <a href="mailto:bday@msu.edu">bday@msu.edu</a> )	<b>2011- 2013</b>
<b>Postdoctoral Fellowship</b> Tropical Research Institute, Oeiras, Portugal/ Michigan State University, East Lansing, MI/ Stockholm University, Stockholm, Sweden Supervisors: Ana Ribeiro, Katharina Pawlowski and Brad Day ( <a href="mailto:aribeiro@itqb.unl.pt">aribeiro@itqb.unl.pt</a> , <a href="mailto:katharina.pawlowski@su.se">katharina.pawlowski@su.se</a> , <a href="mailto:bday@msu.edu">bday@msu.edu</a> )	<b>2008–2011</b>
<b>Postdoctoral Fellowship</b> Universidade Nova de Lisboa, Oeiras, Portugal / Tropical Research Institute, Oeiras, Portugal / Stockholm University, Stockholm, Sweden Supervisors: Ana Ribeiro and Katharina Pawlowski ( <a href="mailto:aribeiro@itqb.unl.pt">aribeiro@itqb.unl.pt</a> , <a href="mailto:katharina.pawlowski@su.se">katharina.pawlowski@su.se</a> )	<b>2005-2008</b>
<b>PhD Student</b> Madeira University, Madeira, Portugal Tropical Research Institute, Oeiras, Portugal Institut de Recherche pour le Développement, Montpellier, France Supervisors: Ana Ribeiro, Diana Fernandez and Manuela Gouveia ( <a href="mailto:aribeiro@itqb.unl.pt">aribeiro@itqb.unl.pt</a> , <a href="mailto:katharina.pawlowski@su.se">katharina.pawlowski@su.se</a> , <a href="mailto:mgouveia@uma.pt">mgouveia@uma.pt</a> )	<b>2001-2005</b>
<b>Research Assistant</b> Universidade Nova de Lisboa, Oeiras, Portugal Supervisors: Cândido Pinto Ricardo and Maria Manuela Chaves ( <a href="mailto:ricardo@itqb.unl.pt">ricardo@itqb.unl.pt</a> , <a href="mailto:mchaves@isa.utl.pt">mchaves@isa.utl.pt</a> )	<b>1997–2001</b>
<b>Research Assistant</b> Technical University of Lisbon, Lisboa, Portugal Supervisor: Maria Manuela Chaves and João Santos Pereira ( <a href="mailto:mchaves@isa.utl.pt">mchaves@isa.utl.pt</a> , <a href="mailto:jspereira@isa.utl.pt">jspereira@isa.utl.pt</a> )	<b>1996-1997</b>
<b>Undergraduate Researcher</b> University of Lisbon, Lisbon, Portugal Supervisor: Paulo Pereira	<b>1996</b>
<b>Undergraduate Researcher</b> Technical University of Lisbon, Lisboa, Portugal Supervisor: Maria Manuela Chaves and João Santos Pereira ( <a href="mailto:mchaves@isa.utl.pt">mchaves@isa.utl.pt</a> , <a href="mailto:jspereira@isa.utl.pt">jspereira@isa.utl.pt</a> )	<b>1995-1996</b>
<b>Undergraduate Researcher</b> Technical University of Lisbon, Lisboa, Portugal Supervisor: João Santos Pereira ( <a href="mailto:jspereira@isa.utl.pt">jspereira@isa.utl.pt</a> )	<b>1995</b>

### ***Peer-Reviewed Publications***

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1. Zhuang, X.\*, **Santos, P.\***, Rojas, A., Wang, J., McPhee, K.E., Coram, T.E., Chilvers, M.I. (*Under review*). Transcriptome characterization and gene expression profiling analysis of *Pisum sativum* in response to infection by *Sclerotinia sclerotiorum*.  
\*First and second authors contributed equally to this work.

2. Kosma DK\*, Murmu J, Razeq FM, **Santos P**, Bourgault R, Molina I, Rowland O (2014) AtMYB41 Activates ectopic suberin synthesis and assembly in multiple plant species and cell types. *The Plant Journal*. 80:216-229.
3. Demina, I.V. \*, Persson, T. \*, **Santos, P.**, Plaszczyca, M., Pawlowski, K. (2013). Comparison of the nodule vs. root transcriptome of the actinorhizal plant *Datisca glomerata*: actinorhizal nodules contain a specific class of defensins. *PLOS One*. 8: e72442.  
\*First and second authors contributed equally to this work.
4. Schubert, M., Koteyeva, N.K., Zdyb, A., **Santos, P.**, Voitsekhovskaja, O.V., Demchenko, K.N., Pawlowski, K. (2013). Lignification of cell walls of infected cells in *Casuarina glauca* nodules that depend on symplastic sugar supply, is accompanied by reduction of plasmodesmata number and narrowing plasmodesmata. *Physiologia Plantarum*. 147:524-540.
5. Ribeiro, A., Berry, A.M., Pawlowski, K., **Santos, P.** (2011). Actinorhizal plants. *Functional Plant Biology*. 38, v–vii.
6. Ribeiro, A., Graça, I., Pawlowski, K., **Santos, P.\*** (2011). Actinorhizal plant defence-related genes in response to symbiotic *Frankia*. *Functional Plant Biology*. 38:639–644.  
\*Corresponding author.
7. Schubert, M., Koteyeva, N.K., Wabnitz, P.W., **Santos, P.**, Büttner, M., Sauer, N., Demchenko, Kirill., Pawlowski, K. (2011). Plasmodesmata distribution and sugar partitioning in nitrogen-fixing root nodules of *Datisca glomerata*. *Planta*. 233:139–152.
8. **Santos, P.\***, Fortunato, A.\*, Graça, I., Martins, S.M., Gouveia, M.M., Auguy, F., Bogusz, D., Ricardo, C.P.P., Pawlowski, K., Ribeiro, A. (2010). Characterization of four defense-related genes up-regulated in root nodules of *Casuarina glauca*. *Symbiosis*. 50:27–35.  
\*First and second authors contributed equally to this work.
9. **Santos, P.**, Fortunato, A., Ribeiro, A., Pawlowski, K. (2008). Chitinases in root nodules. *Plant Biotechnology*. 25: 299-307.
10. Sirrenberg A, Göbel C, Grond S, Czempinski N, Ratzinger A, Karlovsky P, **Santos P**, Feussner I, Pawlowski K. (2007). *Piriformospora indica* affects plant growth by auxin production. *Physiologia Plantarum*. 131: 581-589.
11. Fortunato, A.\*, **Santos, P.\***, Graça, I., Gouveia, M., Martins, S., Ricardo, C.P., Pawlowski, K., Ribeiro, A. (2007). Molecular characterization of *cgchi3*, a nodule-specific from *Casuarina glauca* encoding a class III chitinase. *Physiologia Plantarum*. 130: 418-426.  
\* First and second authors contributed equally to this work.
12. Fernandez, D., **Santos, P.**, Agostini, C., Bon, M-C., Petitot, A-S., Silva, M.C., Guerra-Guimarães, L., Ribeiro, A., Nicole, M. (2004). Identification of coffee (*Coffea arabica*) genes upregulated during the hypersensitive response to the rust pathogen (*Hemileia vastatrix*). *Molecular Plant Pathology*. 5: 527-536.
13. Chen, Z.J., Ribeiro, A., Silva, M.C., **Santos, P.**, Guerra-Guimarães, L., Gouveia, M., Fernandez, D., Rodrigues Jr, C.J. (2003). Heat shock-induced susceptibility of green coffee

leaves and berries to *Colletotrichum gloeosporioides* and its association to PR and hsp70 gene expression. *Physiological and Molecular Plant Pathology*. 63(4): 181-190.

## ***Teaching Experience***

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**Guest Lecturer** - Plant Pathology (PLP/PLB 884) **(Fall) 2012**  
*Plant Root Symbioses*, PhD Graduate Program  
Michigan State University, East Lansing, Michigan

**Guest Lecturer** - Plant Pathology (PLP/PLB 884) **(Fall) 2010**  
*Plant Root Symbioses*, PhD graduate Program,  
Michigan State University, East Lansing, Michigan

**Teaching Assistant** **(Summer) 2010**  
*Genetic Engineering and GMOs*; Summer course for high school students  
Tropical Research Institute, Oeiras, Portugal

**Guest Lecturer** **(Fall) 2006**  
*Molecular Responses of Plants to Abiotic Stresses*,  
M.Sc. Graduate Program in Tropical Crop Production,  
Instituto Superior de Agronomia, Technical University of Lisbon, Portugal

**Teaching Assistant** **(Summer) 2006**  
*Biotechnology and GMOs*, Advanced Training Course for High School Teachers  
Centro de Formação de Formadores, "Learning to Teach" Program  
Linda-a-Velha, Portugal & Tropical Research Institute, Oeiras, Portugal

## ***Supervisory Activities***

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Supervised the following numbers of students:

- 8 - Highschool students
- 8 - Highschool teachers
- 8 - Undergraduates
- 4 - Technicians
- 2 - M.S. students
- 6 - Ph.D. students

## ***Professional Service & Administrative Activities***

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**Thesis Defense Committee Member (Jury)** - degree in Chemical and Environmental Sciences - "Aspectos moleculares da resistência à antracnose dos frutos verdes em *Coffea arabica*: Clonagem de cDNAs correspondentes a genes codificadores de PGIPs". Inês Castelhana Graça, Instituto Piaget, Almada, Portugal March 2006 - first opponent.

**Reviewer** for peer-reviewed academic journals including *Plant Science*, *Physiological and Molecular Plant Pathology*, *Folia Microbiology*.

**Events Coordinator** **2010-Present**  
Michigan State University Postdoc Association (MSU-PDA)

**Co-chair**

Michigan State University Postdoc Association (MSU-PDA)  
Travel Award Committee

**2010-Present****Guest Editor**

Special issue of *Functional Plant Biology* – “Actinorhizal Plants”  
Volume 38 Numbers 8 & 9

**2011****Lab Manager**

Molecular Biology and Biotechnology Lab  
Plant Ecophysiology, Biochemistry and Biotechnology Center  
Tropical Research Institute (IICT), Oeiras, Portugal  
Supervisor: Ana Ribeiro

**2001****Grant-Writing & Outreach Activities with Developing Nations**

*Capacity Building in Biotechnology* – Collaborative Project  
Tropical Research Institute (IICT) Oeiras, Portugal &  
Universidade Eduardo Mondlane (UEM), Maputo, Mozambique  
Funded by Instituto Português de Apoio ao Desenvolvimento (IPAD)

**2001 - 2011**

## Patents

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Day B, **Santos P**, Knepper C

2012

"METHOD OF ENHANCING PLANT DROUGHT TOLERANCE BY EXPRESSION OF NDR1".

Application for U.S. Letters Patent on March 9

Michigan State University, East Lansing, MI.

## Awards

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**Poster Award**

2007

Related Genes during Nodulation of *Casuarina glauca* by *Frankia*

Japan Society for the Promotion of Sciences Colloquium

Frontiers of Plant Biotechnology Meeting

Stockholm University, Stockholm, Sweden

## Oral Presentations

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**P Santos**, X Zhuang, C Foster, J Wang, M Chilvers (2014). Expression profiling of the pea-*Sclerotinia sclerotiorum* interaction for genomics-assisted breeding. 12<sup>th</sup> Annual Sclerotinia Initiative Meeting, January 22-24, Minneapolis, MN, USA (presented by first author).

**Santos, P.**, Knepper, C., Yan, L., Savory, E.A., Carrillo, L.R., Fisher, N., Kramer, D., Day, B. (2012). *Arabidopsis Non-Race Specific Disease Resistance-1 (NDR1)* is Required for Robust Activation of Drought Tolerance and PAMP Triggered Immunity *via* an Abscisic Acid Dependent Pathway. XV International Congress on Molecular Plant-Microbe Interactions, July 29-August 2, Kyoto, Japan (by selection; presented by first author).

Ribeiro A, Graça I, Pawlowski K, **Santos P** (2011). Actinorhizal plant defence-related genes in response to symbiotic *Frankia*. Meeting on Plant-Microbe Interactions, 12<sup>th</sup>-14<sup>th</sup> October, University of Minho, Braga, Portugal (by selection; presented by last author).

**P Santos**, I Graça, B Rashidi, J Liang, A Fortunato, A Melo, J C Ramalho, A Pereira, B Day, K Pawlowski and A Ribeiro (2010). Functional analysis of defense-related genes involved in *Casuarina glauca*-*Frankia* symbiosis. 16<sup>th</sup> International Frankia and Actinorhizal Plants Meeting, 5<sup>th</sup>-8<sup>th</sup> September. Porto. Portugal (presented by last author).

K Pawlowski, B Rashidi, S Mehrabi, M Plaszczyca, T Persson, I Demina, L Jingsi, **P Santos**, S Svistoonoff, C Franche, M Plaszczyca and A Ribeiro (2010). Activity of nodule-specific promoters in heterologous nodules: implications for the evolution of infection pathways. 16<sup>th</sup> International Frankia and Actinorhizal Plants Meeting, 5<sup>th</sup>-8<sup>th</sup> September. Porto. Portugal (presented by first author).

Graça I, Liang J, Fortunato A, **Santos P** et al (2009). Characterization of a chitinase III encoding gene from actinorhizal nodules of *Casuarina glauca*. XXXIV Jornadas Portuguesas de Genética, 28-30<sup>th</sup> April, Lisbon, Portugal (presented by first author).

**Santos P**, Fortunato A, Graça I, Martins SM, Gouveia MM, Auguy F, Bogusz D, Pinto Ricardo C, Pawlowski K, Ribeiro A (2008). Characterization of four defence-related genes expressed in root nodules of *Casuarina glauca*. 15<sup>th</sup> International Frankia and Actinorhizal Plants Meeting, 19<sup>th</sup>-23<sup>rd</sup> October. Bariloche. Argentine (by selection; presented by last author)

**Santos P**, Graça I, Rashidi B, Söderholm N, Wikmark Y, Fortunato A, Pawlowski K, Ribeiro A (2008). Novel insights about two defense-related genes, *CgChi3* and *CgHin1*, during nodulation of *Casuarina glauca*. 8<sup>th</sup> European Nitrogen Fixation Conference and 11<sup>th</sup> International Symposium on Nitrogen Fixation with Non-Legumes. August 30<sup>th</sup> – September 4<sup>th</sup>. Gent. Belgium (by selection).

Ribeiro A, Graça I, **Santos P**, Fortunato A, Liang J, Gouveia M, Pawlowski K (2008). Genes de plantas envolvidos em simbioses actinorrízicas. I Congresso Luso-Espanhol de Fijación de Nitrógeno-XII Reunión Nacional de Fijación de Nitrógeno. 1 – 4<sup>th</sup> June. Estoril. Portugal (by selection; presented by first author).

Ramalho JC, Leitão AE, Eichler P, **Santos P**, Pais IP, Campos PS, Lidon FC, Rodrigues AP, Chaves MM, Ribeiro AI (2006). An integrative approach to study environmental stress tolerance in *Coffea* sp.- from leaf to gene. 21<sup>st</sup> International Conference on Coffee Science, 11-15<sup>th</sup> September. Montpellier. France (by selection; presented by first author).

**Santos P**, Fortunato A, Graça I, Gouveia M, Auguy F, Ricardo CP, Franche C, Bogusz D, Pawlowski K and Ribeiro A (2006). Identification of a NDR1 homologue from *Casuarina glauca* nodules. 14<sup>th</sup> International Conference on Frankia and Actinorhizal Plants. 15-18<sup>th</sup> July. Umea. Sweden (by selection).

Fortunato A, **Santos P**, Graça I, Gouveia M, Martins S, Ricardo CP, Pawlowski K, Ribeiro A (2006). Molecular characterization of *CgChi3*, a nodule-specific gene from *Casuarina glauca*. 14<sup>th</sup> International Conference on Frankia and Actinorhizal Plants. 15-18<sup>th</sup> July. Umea. Sweden (by selection; presented by last author).

**Santos P**, Machado E, Gouveia M, Silva MC, Guerra-Guimarães L, Ribeiro A, Fernandez D (2004). Identification of genes induced during the interaction of coffee (*Coffea arabica*) – orange rust (*Hemileia vastatrix*). 4<sup>o</sup> Congresso da Sociedade Portuguesa de Fitopatologia. Livro de resumos. Faro. Portugal (by selection).

Fernandez D, Silva M, **Santos P**, Petitot A-S, Guerra-Guimarães L, Ribeiro A, Nicole M (2004). La réaction hypersensible du caféier à *Hemileia vastatrix*, agent de la rouille orangée: caractérisation cytologique et moléculaire. Communication aux Journées J. Chevaugéon – Véme rencontres de Phytopathologie/ mycologie. Aussois. France (by selection; presented by first author).

Silva MC, Guerra-Guimarães L, Nicole MR, Loureiro A, Fernandez D, **Santos P**, Ribeiro A, Rodrigues Jr CJ (2003). Early defense responses in coffee – rust interactions. Workshop on Plant Stress Biology. 18-21<sup>st</sup> June. Livro de resumos. Braga. Portugal (by selection; presented by first author).

3<sup>rd</sup> Meeting of the project UE/BIO4-CT96-0770, "Environmental conditions influence the growth response in potato plants transformed with *E. coli* polyphosphate kinase gene.", Grenoble, France. January 2000.

2<sup>nd</sup> Meeting of the project UE/BIO4-CT96-0770, "Growth and photosynthesis of transgenic plants (*Solanum tuberosum* L.) grown under field and controlled environment.", Oeiras, Portugal. October 1998.

1<sup>st</sup> Meeting of the project UE/BIO4-CT96-0770, "Effects of elevated CO<sub>2</sub> on growth and photosynthesis in *Solanum tuberosum* L. (cv. Désirée) lines - Preliminary results.", Madrid, Spain. November 1997.

## Poster Presentations

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**P Santos**, X Zhuang, A Rojas, J Wang, C Foster, M Chilvers (2014). Molecular strategies employed by pea cultivars during the interaction with white mold, *Sclerotinia sclerotiorum*. The American Phytopathological Society: 2014 APS-CPS Joint Meeting, August 9-13, Mineapollis, MN, USA.

**P Santos**, X Zhuang, C Foster, J Wang, M Chilvers (2014). Expression profiling of the pea-*Sclerotinia sclerotiorum* interaction for genomics-assisted breeding. 12<sup>th</sup> Annual Sclerotinia Initiative Meeting, January 22-24, Mineapollis, MN, USA.

I Graça, **P Santos**, J Liang, A Fortunato, I Palos, A Pereira, B Day, K Pawlowski, A Ribeiro. Functional analysis of two defense related genes, *CgChi3* and *CgHin1* from nitrogen-fixing nodules of *Casuarina glauca* (2009). 8<sup>th</sup> Plant GEM, October 7-10, Lisbon, Portugal.

**P Santos**, J Liang, I Graça, B Rashidi, A Fortunato, B Day, K Pawlowski, A Ribeiro (2009). Functional analysis of defense-related genes involved in the *Casuarina glauca*-*Frankia* symbiosis. XIV International Congress on Molecular Plant-Microbe Interactions, July 19-23, Québec, Canada.

**Santos P**, Graça I, Rashidi B, Söderholm N, Wikmark Y, Fortunato A, Pawlowski K, Ribeiro A (2008). Novel insights about two defense-related genes, *CgChi3* and *CgHin1*, during nodulation of *Casuarina glauca*. 8<sup>th</sup> European Nitrogen Fixation Conference and 11<sup>th</sup> International Symposium on Nitrogen Fixation with Non-Legumes. August 30<sup>th</sup> – September 4<sup>th</sup>, Gent, Belgium.

Graça I., Fortunato A., **Santos P.**, Liang J., Ricardo C.P., Tavares P., Pereira A. and Ribeiro A. (2007). Production of *Casuarina glauca* recombinant proteins involved in root nodulation by *Frankia* bacteria. National Congress of MICRO-BIOTEC and XXXIII *Jornadas Portuguesas de Genética*. November 30<sup>th</sup> – December 2<sup>nd</sup>, Lisbon, Portugal.

Fortunato, A, **Santos, P**, Graça, I, Gouveia, M, Auguy, F, Franche, C, Bogusz, D, Pinto Ricardo, C, Pawlowski, K, Ribeiro, A (2007). Defense-related genes during nodulation of *Casuarina glauca* by *Frankia*. XIII International Congress on Molecular Plant-Microbe Interactions. July 21-27, Sorrento, Italy.

Eichler P, **Santos P**, Gouveia MM, Lidon FC, Chaves MM, Ribeiro A, Ramalho JC (2006). Cold tolerance evaluation in *Coffea sp.* Impact on the photosynthetic apparatus and the control of oxidative stress assessed by gene expression analysis. 21<sup>st</sup> International Conference on Coffee Science, Montpellier, France.

**Santos P.**, Machado E., Gouveia M., Fernandez D., Chen Z., Rodrigues Jr C.J., Lidon F.C., Ramalho J., Ribeiro A. (2004). Gene expression analysis of *Coffea* spp. exposed to biotic and abiotic stresses. XIV Congresso Nacional de Bioquímica. Vilamoura, Portugal.

**Santos P.**, Bon-MC, Agostini C, Petitot A-S, Silva, MC, Guerra-Guimarães, Ribeiro, A Fernadez, D (2004). Novel insights about coffee leaf rust: identification of genes involved in the resistance process. 14<sup>th</sup> Federation of European Societies of Plant Biology. Cracow, Poland.

Fernandez D., **Santos P.**, Agostini C., Bon M-C., Petitot A-S., Silva MC, Guerra-Guimarães L., Ribeiro A. and Nicole M. (2003). Early expressed coffee genes in the hypersensitive reaction



to the rust fungus *Hemileia vastatrix*. 11<sup>th</sup> International Congress on Molecular Plant-Microbe Interactions. St Petersburg. Russia.

Silva, MC., Guerra-Guimarães, L., Nicole, MR., Loureiro, A., Fernandez, D., Ribeiro, A., **Santos, P.** and Rodrigues Jr., CJ. (2003). Involvement of peroxidases in the hypersensitive reaction of coffee (*Coffea arabica*) plants to orange rust (*Hemileia vastatrix*). 8<sup>th</sup> International Congress of Plant Pathology. Chirstchurch. New Zeland.

**Santos, P.**, Chaves, M.M. and Pinto Ricardo, C. (2000). Photosynthesis and growth are not improved by the introduction of polyphosphate kinase gene in potato plants, under ambient or elevated CO<sub>2</sub>. XII Congresso Nacional de Bioquímica. Livro de Resumos. Póvoa de Varzim. Portugal.

**Santos, P.**, Chaves, M.M., Pinto Ricardo, C. (1999). Are photosynthesis and growth of *Solanum tuberosum* L. improved by the expression of polyphosphate kinase genes? XIII Reunión de la Sociedad Española de Fisiología Vegetal y VI Congreso Hispano- Luso. Sevilha. Espanha.

**Santos, P.**, Osório, M.L., Chaves, M., Pinto Ricardo, C. (1998). Effects of elevated CO<sub>2</sub> on growth and photosynthesis in *Solanum tuberosum* L. (cv. Désirée) lines transformed with an E. coli polyphosphate kinase. XI Congresso Nacional de Bioquímica. Livro de Resumos. Tomar. Portugal.

**Santos, P.**, Chaves, M.M. e Pereira, J.S. (1997). Aclimação a dois regimes de temperatura em *Cynara cardunculus* L. XII Reunión de la Sociedad Española de Fisiología Vegetal y V Congreso Hispano-Luso de Fisiologia Vegetal. Livro de Resumos. Córdoba. Espanha.

Faria T., Canta N., **Santos P.F.**, Chaves M.M., Pereira J.S. (1997). Responses of cork oak (*Quercus suber* L.) to elevated CO<sub>2</sub> under a Mediterranean type of climate. MEDECOS VIII, San Diego, USA.

Talhinhas, P., Cerasoli, S., **Santos, P.**, Neves Martins, J., Pacheco, C.A., Chaves, M.M., Pereira, J.S. (1995). Características Agronómicas e Fisiológicas de Variedades de Tremoceiro (*Lupinus albus* L.) face ao Stress Hídrico." "IV Congresso Luso-Espanhol de Fisiologia Vegetal". Livro de Resumos. Estoril. Portugal.

## **Foreign Languages**

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<b>Language</b>	<b>Reading, Writing, Conversation</b>
<b>Portuguese</b>	Excellent, Excellent, Excellent
<b>English</b>	Excellent, Excellent, Excellent
<b>French</b>	Good, Basic, Basic
<b>Spanish</b>	Good, Basic, Good