

# Curriculum vitae

## Helena Sofia de Henriques Lebre de Campos Pereira

**Birth place and date:** Lisbon (Lisboa) Portugal, 27-07-1965

**Nationality:** Portuguese and Canadian

**Institutional address:**

Instituto Superior de Agronomia, Centro de Botânica Aplicada à Agricultura  
Secção de Genética, Tapada da Ajuda, 1349-017 Lisboa, PORTUGAL

**Contact data:**

Telephone: 213653457

Mobile telephone: 919581375

Fax: 213635031

Email: [sofiapereira@isa.utl.pt](mailto:sofiapereira@isa.utl.pt), [sofia@pereiravandervalk.com](mailto:sofia@pereiravandervalk.com)

Webpage (url): [www.pereiravandervalk.com](http://www.pereiravandervalk.com)

**Languages:**

English -Fluent speaking and writing skills

Portuguese -Fluent speaking and writing skills

French -Some speaking and reading skills

**Children:**

Sara de Campos Pereira van der Valk, April 3<sup>rd</sup> 1998

Tomas de Campos Pereira van der Valk, August 25<sup>th</sup> 2000

**Academic degrees:**

Year	Academic Degree	Institution	Classification
1995	Doctorate of Philosophy	York University, Canada	Honours and Distinction
1990	Honours Bachelor of Science	York University, Canada	Honours and Distinction

**Previous and current scientific and/or professional activities:**

Year	Position or Category	Institution
02/2002-present	Post-Doctorate	Instituto Superior de Agronomia
01/1996-09/1999	Post-Doctorate	Instituto de Histologia e Embriologia, Faculdade de Medicina, Lisboa
09/1987-08/1994	Research Assistant	York University, Toronto Canada
09/1991-07/1994	Teaching Assistant	York University, Toronto Canada

### **Awards and fellowships:**

<b>Year</b>	<b>Name of the prize or award</b>	<b>Name of the granting entity</b>
1992	York University Graduate Student Assistance Award	York University, Toronto Canada
1993	Postgraduate Scholarship (PGS-B)	National Science and Engineering Research Council, Government of Canada
1994	Course "Neurobiology of Drosophila", Cold Spring Harbor Laboratories, USA	Cold Spring Harbor Laboratories, USA
1996	FCT/Praxis XXI Postdoctoral Fellowship	Fundação para a Ciência e a Tecnologia/Praxis XXI
1998	National Science and Engineering Research Council, Research Fellowship	National Science and Engineering Research Council, Government of Canada
2002	EMBO course "Plant Development", Instituto Gulbenkian de Ciencia, Oeiras, PORTUGAL	European Molecular Biology Organization and Instituto Gulbenkian de Ciencia
2004	FCT Postdoctoral Fellowship	Fundação para a Ciência e a Tecnologia
2007	FCT Postdoctoral Fellowship	Fundação para a Ciência e a Tecnologia

### **Participation in research projects (2002-2007):**

#### Coordination of scientific projects:

Principal Investigator: Helena Sofia de Campos Pereira. Project entitled: Large scale screen for genes important in production associated phenotypes in Vitis. Reference: POCI/AGR/58320/2004. January 2006- January 2009

#### Participation in scientific projects:

Agro 187. Aplicação de Técnicas de Biologia Molecular à Caracterização das Variedades Portuguesas de Videira. February 2002- February 2005 (responsible from the ISA team coordinated by W. Viegas)

#### Participation in international research groups:

European Concerted Research Action-Cost Action 858. Viticulture: Biotic and abiotic stress. Grapevine defence mechanisms and grape development. 2006- present

ERA-NET Plant genomics platform. Grapevine functional genomics. 2006-present

**Teaching experience:**

- 2006/2007    Molecular Markers Module  
Licenciatura em Biologia.  
Instituto Superior de Agronomia
- 2006         Bioinformatics Module.  
Licenciatura em Engenharia Agrónomica.  
Instituto Superior de Agronomia
- 2005/2006    Module on Molecular Markers  
Licenciatura em Biotecnologia  
Universidade Nova
- 2003         Module on Proteomics  
Molecular Biology for Healthcare Professionals  
Instituto de Medicina Tropical
- 1999         Module on Genetics  
Mestrado em Biologia do Desenvolvimento  
Universidade Lusófona de Humanidades e Tecnologias
- 1998         Module on Genetics  
Mestrado em Biologia do Desenvolvimento  
Universidade Lusófona de Humanidades e Tecnologias
- 1996/1997    Module on genetics and development  
PhD Program in Biomedicine  
Instituto Gulbenkian de Ciência
- 1991-1994    Genetics  
Teaching Assistant-Bachelor of Science.  
York University, Toronto Canada

**Supervising experience:**Supervision of Honours Thesis:

João Rocha. Molecular Analysis of B chromosomes in Rye. Trabalho de Fim de Curso de Engenharia Biologia. Universidade Técnica de Lisboa. Instituto Superior de Agronomia, March 2007 to present

José António Silva. Maracadores moleculares baseados em zonas repetitivas do genoma. Trabalho de Fim de Curso de Engenharia Agrónomica Universidade Técnica de Lisboa. Instituto Superior de Agronomia, February 2006 to December 2007

Co-supervision of scientific projects:

Project entitled: Molecular Markers as tools to understand genome evolution induced by polyploidization. Student: Miguel M. Bento, August 2005 to present

Co-Supervised Honours Thesis:

Manuel Torcato Carruço de Belo Jorge. Análise Molecular de clones de Touriga Nacional. Relatório do Trabalho de Fim de Curso de Engenharia Agronómica. Universidade Técnica de Lisboa. Instituto Superior de Agronomia, July 2003

Please note: I will be co-supervising two Post-doctorates with projects in Grapevine genomics and abiotic stress starting October 2007

**Publications:**

Thesis

Ph.D. thesis title: Genetic characterization of foraging behaviour in *Drosophila melanogaster*. 1995, York University, Toronto Canada

Honours BSc. thesis title: Behavioural differences in *Drosophila melanogaster* adults. 1990, York University, Toronto Canada

Papers in international scientific periodicals with referees

Almadanim, M.C., Baleiras-Couto, M.M., Pereira, H.S., Carneiro, L.C., Feveireiro, P., Eiras-Dias, J.E., Morais, L., Viegas, W. and Veloso, M.M. 2007. Genetic diversity of the grapevine (*Vitis vinifera* L.) cultivars most utilized for wine production in Portugal. *Vitis* 46:116-119

Pereira, H.S., Barão, A., Delgado, M., Leonor Morais-Cecílio, L., and Viegas, W. 2005. Genomic Analysis of Grapevine Retrotransposon 1 (Gret1) in *Vitis vinifera*. *Theor. and Appl. Genet.* 111:871-878

Custódio, N., Carmo-Fonseca, M., Geraghty, F., Pereira, H.S., Grosveld, F., and Antoniou, M. 1999. Inefficient processing impairs release of RNA from the site of transcription. *The EMBO Journal.* 10:2855-2866

Osborne, K., Robichon, A., Burgess, E., Butland, S., Shaw, R.A., Coulthard, Pereira, H.S., Greenspan, R.J. and Sokolowski, M.B. 1997. Natural behavior polymorphism due to a cGMP-dependent protein kinase of *Drosophila*. *Science* 277: 834-836.

Sokolowski, M.B., Pereira, H.S., and Hughes, K.D. 1997. Evolution of foraging behaviour in *Drosophila* by density dependent selection. *Proc.Natl.Acad.Sci. USA.* 94: 7373-7377

Pereira, H.S., MacDonald, D.E., Hilliker, A.H., and Sokolowski, M.B. 1995. Chaser (Csr), a new gene affecting larval foraging behaviour in *Drosophila melanogaster*. *Genetics.* 140: 263-270

Pereira, H.S., and Sokolowski, M.B. 1993. Larval foraging mutations in *Drosophila melanogaster* affect adult foraging behavior. *Proc.Natl.Acad.Sci. USA.* 90: 5044-5046

Papers in progress (expected to be published 2007/2008)

Pereira, H.S., Barão, A., Delgado, M., and Viegas, W. Constructing an atlas of meiosis in *Vitis vinifera*: A tool for chromosome mapping. Submitted to *Vitis*

Miguel Bento, M., Pereira H.S., Rocheta, M., Gustafson, P., Viegas, W., and Silva, M. Polyploidization as a force in plant genome evolution: sequence rearrangements in triticales. Submitted to Theor. and Appl. Genet.

Pereira, H.S., Silva, Z. and Wanda Viegas. Genomic distribution of *Gret1* (grapevine retrotransposon 1) and its effects on phenotypic variability in grapevine. In prep

Pereira, H.S., Delgado, M., Rocha, J., Jones, N., and Viegas, W. Molecular analysis of a B-specific sequence in the rye B chromosome. In prep

### **Papers in conference proceedings:**

Pereira, H.S., Barão, A., Delgado, M., Leonor Morais-Cecílio, L., and Viegas, W. Grapevine Retrotransposon 1 (*Gret1*): Distribution and application as a molecular marker in *Vitis vinifera*. International Grape Genomics Symposium. St. Louis, Missouri, July 12-14, 2005. pp. 113-116

Almandanim, M.C., Baleiras-Couto, M., Pereira, H.S., Melo, E., Fevereiro, P., Eiras-Dias, J.E., Morais, L., Viegas, W., and M.M. Veloso. Os Microssatélites na Identificação de Variedades de Videira. 6o Simpósio de Vitivinicultura do Alentejo. Évora, Portugal. May 26-28, 2004. Vol. 1, pp. 23-29

### **Communications:**

#### Oral communications by invitation

Pereira, H.S., Burgess, E., Campos, A., Greenspan, R., Osborne, K., Robichon, A., and M.B Sokolowski. Genetic and molecular analysis of foraging behaviour in *Drosophila melanogaster*. Symposium on heredity, nervous system and behaviour. Richmond Virginia, USA. June 3-4, 1995

#### Other oral communications

Miguel Bento, M., Pereira H.S., Rocheta, M., Gustafson, P., Viegas, W., and Silva, M. Polyploidization as a force in plant genome evolution: sequence rearrangements in triticales. 16<sup>th</sup> International Chromosome Conference, Amsterdam, The Netherlands, August 25-29, 2007

Pereira, H.S., Barão, A., Delgado, M., and Viegas, W. Constructing an atlas of meiosis in *Vitis vinifera*: A tool for chromosome mapping. 9th International Conference on Grape Genetics and Breeding, Udine, Italy, July 2-6, 2006

Miguel, M.B., Pereira, H.S., Silva, M., Gustafson, J.P., and Viegas, W. Molecular Markers as a tool to understand genome evolution induced by polyploidization. II Encontro Nacional sobre Marcadores Moleculares, Estação Zootécnica Nacional, Santarém, October 27-28, 2005

Pereira, H.S., Barão, A., Delgado, M., Leonor Morais-Cecílio, L., and Viegas, W. Genomic Analysis of Grapevine Retrotransposon 1 (*Gret1*) in *Vitis vinifera*. International Grape Genomics Symposium. St. Louis, Missouri, July 12-14, 2005

Almandanim, M.C., Baleiras-Couto, M., Pereira, H.S., Melo, E., Fevereiro, P., Eiras-Dias, J.E., Morais, L., Viegas, W., and M.M. Veloso. Caracterização Molecular das Castas Portuguesas de Videira. 2o Colóquio do projecto Agro 187. Instituto de Tecnologia Química e Biológica, Oeiras, Portugal. January 21, 2004

Almandanim, M.C., Baleiras-Couto, M., Pereira, H.S., Melo, E., Fevereiro, P., Eiras-Dias, J.E., Morais, L., Viegas, W., and M.M. Veloso. Os Microssatélites na Identificação de Variedades de Videira. 6o Simpósio de Vitivinicultura do Alentejo. Évora, Portugal. May 26-28, 2004

Almandanim, M.C., Baleiras-Couto, M., Pereira, H.S., Melo, E., Fevereiro, P., Eiras-Dias, J.E., Morais, L., Viegas, W., and M.M. Veloso. Aplicação de Técnicas de Biologia Molecular à Caracterização das Variedades Portuguesas de Videira. 1o Colóquio do projecto Agro 187. Estação Vitivinícola Nacional, Dois Portos, Portugal. January 24, 2003

Custódio, N., Carmo-Fonseca, M., Geraghty, F., Hurst, J., Pereira, H.S., and M. Antoniou. Efficient RNA processing is essential for release from the site of transcription. Dynamic Organization of Nuclear Function. Cold Spring Harbor, New York, USA. October 7-11, 1998

Pereira, H.S., Yang, P., Hilliker, A.J., Gundelfinger, E. and Sokolowski, M.B. Molecular characterization of foraging behaviour. 6th European Symposium on Drosophila Neurobiology. Regensburg, Germany. September 15-19, 1996

Pereira, H.S., and M.B. Sokolowski. Dissecção genética do comportamento alimentar em *Drosophila melanogaster*. XXX Reunião Annual da Sociedade Portuguesa de Microscopia Electrónica e Biologia Celular. Porto, Portugal. December 14-15, 1995

#### Posters in conferences

Pereira, H.S., Delgado, M., Rocha, J., Jones, N., and Viegas, W. Molecular analysis of a B-specific sequence in the rye B chromosome. 16<sup>th</sup> International Chromosome Conference, Amsterdam, The Netherlands, August 25-29, 2007

Ribeiro, T., Pereira, H.S., Pires, N. Barão, A., Rocheta, M., Viegas, W., Morais-Cecilio, L. Molecular and physical analysis of *Quercus Suber* retrotransposon genes in members of the Fagaceae family. 5. Plant Genomics European Meetings, Venice, Italy, October 11-14, 2006

Pereira, H.S., Hilliker, A.H., and Sokolowski, M.B. Interactions with the foraging locus: the Chaser gene. 4th European Symposium on Drosophila Neurogenetics. Glasgow, Scotland. September 6-10, 1992

Pereira, H.S., and Sokolowski, M.B. Adult and larval foraging behavioural patterns are influenced by the foraging gene of *Drosophila melanogaster*. 36th Annual Meeting of the Genetics Society of Canada. Queens University, Kingston, Ontario. June 11-14, 1991

Pereira, H.S., and Sokolowski, M.B. Rover and sitter strains of *Drosophila melanogaster* differ in two adult behavior patterns: foraging and courtship. 3rd European Symposium on Drosophila Neurogenetics. St.Remy, France. October 28-November 1, 1990