
Curriculum vitae

Sílvia Cristina Xavier Bettencourt

Angra do Heroísmo, 2018

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1. Personal data

Full name	Sílvia Cristina Xavier Bettencourt
Name under which I publish	Bettencourt SX
ID document	11459661
Birth date	1979
Nationality	Portuguese
Gender	F
Work address	Biotechnology Centre of Azores University of the Azores Angra do Heroísmo <i>Campus</i> Capitão João D'Ávila Street Pico da Urze 9700-042 S. Pedro – Angra do Heroísmo Azores - Portugal
Work phone	+351 295 333 702
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Languages	Portuguese English

2. Academic degrees

- 2011-** **PhD** in Agricultural Sciences and plant protection by the University of Azores – Angra do Heroísmo *Campus*
Thesis title “Grapevine leafroll virus 3(GLRaV-3) and interaction with *Pseudococcus viburni* (Signoret)”
- 2003-** **Degree** in Agricultural Engineering by the University of Azores – Angra do Heroísmo *Campus* with final grade 16/20
Thesis title “Identificação e distribuição de pragas/parasitóides de *Citrus sinensis* (Osbeck) var. *selecta* em pomares não tratados” with final grade 19/20
Curricular years - 5

3. Awards

- 2004-** Best student of Agricultural engineering of the University of the Azores
Promoting entity - Ordem dos Engenheiros da Região Açores

4. Previous activities and Current status

- 2018 - 2019** **Labour contract for 12 months** in molecular biology, with the FGF under the CONNECT.GENE Project: a genetic landscape approach to sustain rare species connectivity, for small islands biodiversity, ref. ACORES-01-0145-FEDER-000061.
- 2017 - 2018** **Labour contract for 12 months** in molecular biology, with the FGF under the CONNECT.GENE Project: a genetic landscape approach to sustain rare species connectivity, for small islands

biodiversity, ref. ACORES-01-0145-FEDER-000061.

- 2016** **Laboratory work** regarding molecular biology and plant tissue culture
Institution: Biotechnology Centre of Azores
- 2015** **Laboratory work** regarding molecular biology and plant tissue culture
Institution: Biotechnology Centre of Azores
- 2015** **Preparation, elaboration and submission of an application to a H2020 programme**
Institution: Regional Fund for Science and Technology (FRCT)
- 2012 - 2015** **Post-Doctoral grant** funded by Fundo Regional para a Ciência e Tecnologia (FRCT)
Theme "Thermophile plants growing in the Azorean Hot Springs as a source of valuable molecules"
Institution: Biotechnology Centre of Azores
- 2009 - 2011** **Research grant** funded by FCT
Theme "Allergenic factors in endemic plants of Azores"
Project "Micropopagations of four endemic species of the Azores" FCT 168
Institution: Biotechnology Centre of Azores
- 2004 - 2008** **Doctoral Grant** by FCT
Thesis "Grapevine leafroll virus 3(GLRaV-3) and interaction with *Pseudococcus viburni* (Signoret)"
Institution: University of the Azores and University of Trás-os-Montes e Alto Douro

- 2004** Responsible for field collection and laboratory work for emergency of parasitoids of several plants in Terceira island, inventory of beneficial plants for developing parasitoids and crops pests
Institution: Centro de Investigação Agrária e Tecnológica dos Açores (CITA-A), University of Azores
- 2004** Prospecting and searching Angra do Heroísmo county houses for termite presence
Institution: Centro de Investigação Agrária e Tecnológica dos Açores (CITA-A), University of Azores
- 2002 - 2003** **Agronomic Engineer internship** under program Estagiar L
Theme “Afforestation of green areas of Lajes do Pico county”
Institution: Lajes do Pico City Hall

5. Teaching activities

- 2016 - 2017** **Laboratory practical classes of Genetics**
Degrees: Pharmaceutical Sciences, Veterinarian and Agricultural Sciences
- 2015 - 2016** **Laboratory practical classes of Genetics**
Degrees: Pharmaceutical Sciences, Veterinarian and Agricultural Sciences
- 2014 - 2015** **Laboratory practical classes of Genetics**
Degrees: Pharmaceutical Sciences, Veterinarian and Agricultural Sciences
- 2013 - 2014** **Laboratory practical classes of Genetics**

Degrees: Pharmaceutical Sciences, Veterinarian and Agricultural Sciences

2012 - 2013 Laboratory practical classes of Genetics

Degrees: Pharmaceutical Sciences, Veterinarian and Agricultural Sciences

2011 - 2012 Laboratory practical classes of Genetics

Degrees: Pharmaceutical Sciences, Veterinarian and Agricultural Sciences

6. Professional courses and updates

2012 Workshop (40h) – “SNP chip data analysis for Genome Wide Association Studies (GWAS), University of Azores, 27 to 31st of August

2011 Workshop (32h) - "**Expressão de proteínas com interesse biotecnológico em *Pichia pastoris***"- to promote advanced scientific and technical formation in production and study of recombinant proteins with the *Pichia pastoris* system; University of Azores, 5 to 8th of September.

2007 Professional course “**formação de formadores**” certified by the Azorean Regional Direction for employment and professional qualification, providing pedagogical competences and skills to be a professional trainer in the area of Agriculture and agricultural sciences

7. Other professional interests/activities

Writing and submitting international scientific projects, regarding H2020 rules

Experience with light microscopy

Experience in preparation of samples for immunolabelling for light, epifluorescence and confocal microscopy.

8. Area of Scientific specialization

Plant molecular biology and molecular characterization

Population genetics analysis

Genetic data analysis

Azorean endemic plants ecology and genetics

Population genetics analysis – bioinformatics

9. Research interests

9.1. Current Research Interest

Next Generation sequencing

Crops well adapted to Azorean climate and environment

Plant responses to biotic and abiotic stresses

Azorean endemic plants ecology and genetics

Molecular biology and population genetics

Azorean endemic plants and plants growing under unique conditions, and adapted to environmental conditions, extreme conditions, climate changes

9.2. Other interests

Plant virology

Immunofluorescence

10. Participation in R&D projects

2016-2019 CONNECT.GENE Project: a genetic landscape approach to sustain rare species connectivity, for small islands biodiversity. ref. ACORES-01-0145-FEDER-000061

2011 - 2012 “Evaluation of genetic pool of two of woody Azorean endemic plants, namely *Juniperus brevifolia* and *Picconia azorica*, using molecular markers and bioinformatics analyses”

11. Organization of Scientific meetings

2016 **Title:** international seminar - Dairy products innovation: challenges and opportunities

Organization: Biotechnology Centre of Azores

Location: University of Azores - Faculty of Agronomical Sciences and environment – Angra do Heroísmo *Campus*

Date: 10 and 11 of October

12. Participation in Congresses, Seminars and workshops

11 Seminar “Dairy products innovation: challenges and opportunities”, 10 and 11 of October 2016, University of Azores, Angra do Heroísmo Campus, Azores

- 10** II Jornadas "Ciência nos Açores - A política Científica nos Açores 2014-2020: Desafios e Oportunidades para o Sistema Científico Regional", 13 e 14 de Junho 2014, Praia da Vitória, Azores
- 9** 10th Dorothy Russell Havemeyer International Equine Genome Mapping Workshop, July 10th-13th, 2013, Furnas, S. Miguel, Azores, Portugal
- 8** I Jornadas "Ciência nos Açores - que Futuro?", 7 e 8 de Junho 2013, Ponta Delgada, Açores
- 7** 3rd Scientific Meeting of Institute for Biotechnology and Bioengineering, Instituto Superior Técnico, Lisboa, 16th and 17th March 2012
- 6** 3rd Biotechnology Workshop, October 6th and 7th 2011, LA-IBB CBA – Biotechnology Centre of Azores, University of Azores
- 5** Seminário "Vitivinicultura Atlântica- construir o futuro", Pico island, 9 to 12 of June 2011
- 4** 5º Congresso da Sociedade Portuguesa de Fitopatologia, Escola Superior Agrária de Coimbra, 22 to 23 of November 2007
- 3** XI International Symposium on Scale Insect Studies, Oeiras (Portugal), 24 to 27 September 2007, Lisbon
- 2** Workshop – Fruticultura: contributo para o seu desenvolvimento, Universidade dos Açores, Campus de Angra do Heroísmo, 21 to 23 of April 2005
- 1** 6º Encontro Nacional de Protecção Integrada, Escola Superior Agrária de Castelo Branco, 14 to 16 of May 2003

13. Scientific work / Publications

13.1. Thesis

- 2 **Bettencourt SX** (2010). Vírus do enrolamento foliar da Videira tipo 3 (GLRaV-3) e interacção com *Pseudodoccus viburni* (Signoret). Thesis for the Doctoral degree in Agrarian Sciences, by the University of the Azores, 156pp
- 1 **Bettencourt SX** (2003). Identificação e distribuição de pragas/parasitóides de *Citrus sinensis* (Osbreck) var. *selecta* em pomares não tratados. Final report for graduation in Agronomic Engineering; University of the Azores, Agricultural Sciences Department, 290pp; attachments 63pp.

13.2. Papers in peer review journals

- 6 Lopes MS, Mendonça D, Rojer H, Cabral V, **Bettencourt SX** and da Câmara Machado A (2015). Morphological and genetic characterization of an emerging Azorean horse breed: the Terceira Pony. *Frontiers in Genetics* 6:62. doi: 10.3389/fgene.2015.00062. [IF- , Q2- Genetics, H- 13]
- 5 Mendonça D, Luna S, **Bettencourt SX**, Lopes MS, Monteiro L, Neves, JD, Monjardino P, da Câmara Machado A (2015). *In vitro* propagation of *Picconia azorica* (Tutin) Knobl. (Oleaceae) an Azorean endangered endemic plant species. *Acta Physiologiae Plantarum*, 37:47. doi: 0.1007/s11738-015-1797-8. [IF- 1.524, Q2- Plant Sciences, H- 29]
- 4 **Bettencourt SX**, Mendonça D, Monteiro L, Lopes MS, Rocha S, Monjardino P, da Câmara Machado A (2015). Genetic diversity and population structure of the endemic Azorean juniper, *Juniperus brevifolia* (Seub.) Antoine, inferred from SSRs and ISSR markers. *Biochemical and Systematics Ecology*, 29:314-324. doi: 10.1016/j.bse.2015.02.003. [IF- 1.170, Q3- Ecology, H- 46]

- 3 Lopes MS, Mendonça D, **Bettencourt SX**, Borba AR, Drumonde C, Baptista C, da Câmara Machado A (2014). Genetic diversity of an Azorean endemic and endangered plant species inferred from ISSR markers. *AoB Plants*. 6: plus034. doi:10.1093/aobpla/plu034. [IF-1.743, Q2- Plant Science, H- 6]
- 2 **Bettencourt SX**, Simões AMÁ and Pereira AMN (2009). Identificação de vírus em videiras nas ilhas do Pico e Terceira (Açores). *Revista de Ciências Agrárias*, Dezembro, 33(2):14-22. [IF-0.110, Q- , H- 6]
- 1 **Bettencourt SX**, Simoes AMÁ and Franco JC (2006). Novos registos de cochonilhas Pseudococcidae e Diaspididae para as ilhas Terceira e Pico, no arquipélago dos Açores. *Boletim Sociedad Entomológica Aragonesa* nº39: 419-420. [IF- , Q- , H- 7]

13.3. Proceedings

- 3 **Bettencourt SX**, Pereira D., Mendes C, Mendonça D, Lopes MS, Machado A, Dias E (2017). CONNECT.GENE project: a genetic landscape approach to sustain rare species connectivity, for small islands biodiversity. IN:Carlos Neto, Albano Figueiredo, Maria Romerias, Jorge Capelo, Sónia silva Vitória, Frederic Bioret, António Lopes, José Maria Semedo, José Carlos Costa (eds.= (2017). *Phytosociology, biogeography and syntaxonomy of the Eastern Atlantic Regions*. Centro de Estudos Geográficos, universidade de Lisboa, Lisboa, p.42.
- 2 **Bettencourt SX**, Pereira AMN and Simões AMA (2007). Bioecology of *Pseudococcus viburni*, (Signoret) in the Azores environment; In Branco M, Franco JC & Hodgson C (eds) (2008) *Proceedings of XI International Symposium on Scale Insect Studies*, Oeiras (Portugal), 24-27 September 2007. ISA Press, Lisbon, 322 p.

- 1 **Bettencourt SX**, Simões AMÁ (2003). Contributo para o conhecimento de algumas pragas e parasitóides dos pomares de citrinos não tratados da ilha Terceira. Proceedings 6º Encontro Nacional de Protecção Integrada; 14 to 16 of May, Escola Superior Agrária de Castelo Branco.

13.4. Other

- 2 Simões AMA and **Bettencourt SX** (2005). Identificação do trinómio espécie vegetal/hospedeiro/parasitóide em zonas circundantes a pomares da ilha Terceira. Arquipélago, Série Ciências da Natureza.
- 1 Borges PAV, Lopes DH, Simões AMA, Rodrigues AC, **Bettencourt SX**, Myles T (2004). Relatório do Projecto – Determinação da Distribuição e Abundância de Térmitas (Isoptera) nas Habitações do Concelho de Angra do Heroísmo. Universidade dos Açores, Dep. de Ciências Agrárias, July

14. Communications in Scientific meetings

14.1. Oral Communications

- 7 Lopes MS, Mendonça D, Rojer H, Cabral V, **Bettencourt SX**, da Câmara Machado A (2016) Morphological and genetic characterization of an emerging Azorean horse breed: the Terceira pony. X Congresso Ibérico sobre Recursos Genéticos Animais, September 15-17, Castelo Branco, Portugal.
- 6 **Bettencourt SX**, Borba AR, Mendonça D, Lopes MS and da Câmara Machado A (2012). Thermophilic plants from Azorean Hot Springs: A source of valuable molecules. In Book of abstracts of the 3rd Scientific Meeting of Institute for Biotechnology and Bioengineering, Instituto Superior Técnico, Lisboa, 16th and 17th March 2012

- 5 Mendonça D, Lopes MS, Monteiro L, Luna S, Silva C, Simas M, **Bettencourt SX**, da Câmara Machado A (2012) Biotechnological tools on the conservation and valorisation of Azorean plant resources. 3rd Meeting of the Institute for Biotechnology and Bioengineering, March 16th-17th, Lisbon, Portugal.
- 4 **Bettencourt SX** (2011). Grapevine virus survey on Azorean grapevines and its economic impact. In 3rd Biotechnology Workshop, October 6th and 7th 2011, la-IBB CBA – Biotechnology Centre of Azores, University of Azores
- 3 Mendonça D, **Bettencourt SX**, Lopes MS, da Câmara Machado A (2011). Biotechnology approaches on the phytosanitary improvement of local crops. 3rd Biotechnology Workshop, October 6th and 7th 2011, LA-IBB CBA – Biotechnology Centre of Azores, University of Azores
- 2 **Bettencourt SX**, Simões AMÁ, Pereira AMN, Mendonça D, Monjardino P, Lopes MS and da Câmara Machado A (2011). Rastreio de vírus em castas recomendadas para a produção de vinhos VLQPRD nas ilhas do Pico e Terceira. In Seminário “Vitivinicultura Atlântica – construir o futuro”, Açores – ilha do Pico, 9-12 de Junho de 2011
- 1 **Bettencourt SX** and Simões AMÁ (2005). Identificação do trinómio espécie vegetal/hospedeiro/parasitóide em zonas circundantes a pomares da ilha Terceira. In Workshop – Fruticultura: contributo para o seu desenvolvimento, Universidade dos Açores, Campus de Angra do Heroísmo, 21 a 23, Abril 2005

14.2. Poster Communications

- 9 **Bettencourt S**, Pereira D, Mendes C, Mendonça D, Lopes MS, Machado A & Eduardo Dias. CONNECT.GENE Project: a genetic landscape approach to sustain rare species connectivity, for small islands biodiversity.

Biogeography and Syntaxonomy of the Atlantic Regions - Cape Verde 2017. X International Phytosociology Meeting, November 5 to 7, Praia city, Santiago island, Cape Verde.

- 8 Lopes MS, Cabral V, Mendonça D, Rocha S, **Bettencourt SX**, da Câmara Machado A (2013). Transcriptome profiling at different developmental stages for pony and horse embryos. In 10th Dorothy Russell Havemeyer International Equine Genome Mapping Workshop, July 10th-13th, 2013, Furnas, S. Miguel, Azores, Portugal
- 7 **Bettencourt SX**, Mendonça D, Toubarro D, Simões N and da Câmara Machado A (2013). Azorean Hot Springs, adaptações a ambientes extremos: Uma fonte inexplorada de moléculas valiosas. Jornadas "Ciência nos Açores - que Futuro?", 7 e 8 de Junho 2013, Ponta Delgada, Açores
- 6 Lopes MS, Cabral V, Mendonça D, **Bettencourt SX**, da Câmara Machado A (2013). Perfil do transcriptoma de diferentes estádios de embriões de Pôneis e Cavalos. In Jornadas "Ciência nos Açores- que futuro?", 7-8 Junho, 2013, Ponta Delgada, Açores
- 5 Mendonça D, Lopes MS, **Bettencourt SX**, Silveira G, da Câmara Machado A (2011). Métodos biotecnológicos no saneamento de castas de videira. In Seminário "Vitivinicultura Atlântica- construir o futuro", Pico island, 9 o 12 of June 2011
- 4 **Bettencourt SX**, Simões, AMA and Pereira AMN (2007). Identificação de vírus em videiras nas ilhas do Pico e Terceira. In 5º Congresso da Sociedade Portuguesa de Fitopatologia, Escola Superior Agrária de Coimbra, 22 to 23 of November 2007
- 3 **Bettencourt SX**, Pereira AMN and Simões AMA (2007). Bioecology of *Pseudococcus viburni*, (Signoret) in the Azores environment. In Branco M, Franco JC & Hodgson C (eds) (2008) Proceedings of XI International

Symposium on Scale Insect Studies, Oeiras (Portugal), 24-27 September 2007. ISA Press, Lisbon, 322 p.

- 2 Bettencourt SX** and Simões AMÁ (2005). O papel das infestantes na manipulação de parasitóides na ilha Terceira. In Workshop – Fruticultura: contributo para o seu desenvolvimento, Universidade dos Açores, Campus de Angra do Heroísmo, 21 to 23 of April 2005

- 1 Bettencourt SX** and Simões AMÁ (2003). Contributo para o conhecimento de algumas pragas e parasitóides dos pomares de citrinos não tratados da ilha Terceira. In 6º Encontro Nacional de Protecção Integrada, Escola Superior Agrária de Castelo Branco, 14 to 16 of May 2003