

**Curriculum Vitae**



**Personal information**

First name / Family name	<b>Vítor da Silveira Falavigna</b>		
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Mobile			
E-mail	vitorfalavigna@gmail.com		
Nationality	Brazil		
Date of birth			
Gender	Male		

**Personal statement**

My name is Vítor S. Falavigna and I am a recently formed PhD in Cell and Molecular Biology from Brazil. I started to work as a trainee at the Laboratory of Plant Molecular Genetics of Embrapa Uva e Vinho - a federal research institute from Brazil - when I was an undergrad student. During this time, I was able to be in touch to a full research environment, which made me pursue a research career. To achieve this goal, I kept improving my qualifications by obtaining a Master and PhD titles in Cell and Molecular Biology. These experiences made me work in different fields and helped the development of a broad knowledge on plant biology, especially the ones involving genetic and molecular assays. However, an international experience is still missing. To fill this gap, I contacted Dr. Evelyne Costes, a researcher from INRA (France), who offered me an opportunity to work in her team as a Post-Doc fellow. We wrote a proposal for the Agropolis-Embrapa call in order to obtain the necessary funding to develop all proposed activities, which was recently approved. In this context, the AgreenSkills+ fellowship will be critical in order to accomplish the objective of an international experience, as also to help me reach a position of scientific maturity for the following reasons: (i) The expected results will lead to the publication of break through papers; (ii) The responsibility of such a project will contribute to develop leadership qualities; (iii) I will gain knowledge to resolve biological problems using both molecular genetics and genomics approaches; (iv) I will expand my contact network, which will open new career opportunities. (v) The generated results will provide important biological data that can be used in the elaboration of a new research project to apply for an independent research position. Taken together, these goals will only be possible to be achieved through a mobility project such as the one provided by AgreenSkills+. This will help me to achieve my medium- and long-term objectives, which are to be the leader of my own research group. The new expertise I will develop, together with my existing knowledge in molecular biology, will provide a wide set of skills to pursue important problems in plant biology.

### Education and training

Location and dates	Porto Alegre/RS, Brazil - 2016/08/31
Title of qualification awarded	PhD in Cell and Molecular Biology
Principal subjects/occupational skills covered	<p>My PhD Thesis aimed to explore bud adaptation to stress conditions that occur during dormancy to identify genes with potential biotechnological usage. To this purpose several assays and techniques were used, which developed the following skills:</p> <p><b>Genetics and Molecular Biology:</b> molecular cloning techniques, gene expression analyses by RT-PCR, RT-qPCR, <i>in situ</i> hybridization and microarray, genetic transformation of <i>E.coli</i>, <i>A. tumefaciens</i> and <i>Arabidopsis thaliana</i>, metabolite quantification by UPLC MS/MS, sequencing, cDNA libraries construction and ESTs generation.</p> <p><b>Microscopy:</b> optical and confocal microscope.</p> <p><b>Bioinformatics:</b> analysis of DNA and protein sequences employing multiple platforms, evolutionary analyses employing phylogeny, synteny and collinearity algorithms.</p>
Name of Institute	Federal University of Rio Grande do Sul

Location and dates	Porto Alegre/RS, Brazil - 2011/10/30
Title of qualification awarded	Master Degree in Cell and Molecular Biology
Principal subjects/occupational skills covered	<p>My Master's Thesis aimed to investigate the differential gene expression profiles between apple tree cultivars contrasting in chilling requirement for breaking dormancy. To this purpose several assays and techniques were used, which developed the following skills:</p> <p><b>Genetics and Molecular Biology:</b> molecular cloning techniques, gene expression analyses by RT-PCR, RT-qPCR, and suppression subtractive hybridization, genetic transformation of <i>E.coli</i>, sequencing, cDNA libraries construction and ESTs generation.</p> <p><b>Bioinformatics:</b> analysis of DNA and protein sequences employing multiple platforms.</p>
Name of Institute	Federal University of Rio Grande do Sul

### Work experience

Location and dates	Bento Gonçalves/RS, Brazil - 2012/11/01 to 2016/08/31
Occupation or position held	PhD fellow
Main activities and responsibilities	<p>My PhD project was developed at Embrapa Uva e Vinho and I was responsible for the execution of all activities concerning the project. In this project I employed many genetics and molecular biology techniques to unveil the biotechnological potential of dehydrins and galactinol synthases in apple, two classes of genes known to be involved in response to abiotic stresses. To this purpose, dehydrins and galactinol synthases were identified and characterized in the apple genome employing <i>in silico</i> evolutionary tools, experiments under field and controlled conditions, gene expression analysis, metabolite quantification, molecular cloning techniques, subcellular localization assays, and the generation of transgenic plants.</p>

Name of employer	Embrapa Uva e Vinho
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Location and dates	Bento Gonçalves/RS, Brazil - 2011/03/01 to 2012/10/30
Occupation or position held	Master's fellow
Main activities and responsibilities	My Master's project was developed at Embrapa Uva e Vinho and I was in charge of executing all activities concerning the project. In this project I investigated the differential gene expression profiles between two apple tree cultivars contrasting in chilling requirement for bud dormancy release by employing several gene expression tools, molecular cloning techniques and <i>in silico</i> analysis of DNA and protein sequences.
Name of employer	Embrapa Uva e Vinho

Location and dates	Bento Gonçalves/RS, Brazil - 2009/08/03 to 2011/01/29
Occupation or position held	Trainee
Main activities and responsibilities	I started to work as a trainee at the Laboratory of Plant Molecular Genetics of Embrapa Uva e Vinho when I was an undergrad student. I was under the guidance of a Post-doc fellow, and this experience helped the improvement of basic genetic and molecular biology skills, such as molecular cloning techniques, DNA and RNA purification and gene expression analyses.
Name of employer	Embrapa Uva e Vinho

### Languages

Mother tongue(s)	<b>Portuguese</b>				
Other language(s)	<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
<i>English</i>	C1	C2	C1	C1	C2
<i>Spanish</i>	B1	B2	A1	A1	A2
<i>French</i>	A1	A2	A1	A1	A1

### Academic Record

Publications	<p><b>Accepted, in press and published articles / papers:</b></p> <p>DA SILVA*, D.C.; <b>FALAVIGNA*</b>, V.S.; FASOLI, M.; BUFFON, V.; PORTO, D.D.; PAPPAS JR, G.J.; PEZZOTTI, M.; PASQUALI, G.; REVERS, L.F. (2016) Transcriptome analyses of the Dof-like gene family in grapevine reveal its involvement in berry, flower and seed development. <i>Horticulture Research</i>, v.3, p.16042.</p> <p>PORTO, D.D.; <b>FALAVIGNA, V.S.</b>; ARENHART, R.A.; PERINI, P.; BUFFON, V.; ANZANELLO, R.; SANTOS, H.P.; FIALHO, F.B.; OLIVEIRA, P.R.D.; REVERS, L.F. (2016) Structural genomics and transcriptional characterization of the Dormancy-Associated MADS-box genes during bud dormancy progression in apple. <i>Tree</i></p>
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	<p><b>Genetics &amp; Genomes</b>, v.12, p.46.</p> <p><b>FALAVIGNA, V.S.</b>; MIOTTO, Y.E.; PORTO, D.D.; ANZANELLO, R.; SANTOS, H.P.; FIALHO, F.B.; MARGIS-PINHEIRO, M.; PASQUALI, G.; REVERS, L.F. (2015) Functional diversification of the dehydrin gene family in apple and its contribution to cold acclimation during dormancy. <i>Physiologia Plantarum</i> (Kobenhavn. 1948), v.155, p.315-329.</p> <p><b>FALAVIGNA*, V.S.</b>; PORTO*, D.D.; BUFFON, V.; MARGIS-PINHEIRO, M.; PASQUALI, G.; REVERS, L.F. (2014) Differential transcriptional profiles of dormancy-related genes in apple buds. <i>Plant Molecular Biology Reporter</i>, v.32, p.796-813.</p> <p>*These authors contributed equally to this work.</p>
Presentations as invited speaker	<b>Falavigna, V.S.</b> (2014) <i>Functional analysis and biotechnological potential of dehydrins and galactinol synthases in apple. Workshop of Plant Molecular Biology</i> , Porto Alegre/RS, Brazil.
Authored books or book chapter(s)	<b>FALAVIGNA, V.S.</b> ; PORTO, D.D.; SILVEIRA, C.P.; REVERS, L.F. (2015) Recent advances in genetics and molecular control of bud dormancy in pipfruits. In: Anderson, J.V. <i>Advances in Plant Dormancy</i> . New York: Springer International Publishing, Chapter 5, p. 107-122.
Participation in open calls for proposals as contributor or leader	<p><b>2017-2019 Status:</b> submitted. Deciphering the genetics and molecular control of bud dormancy in apple. <b>Funding:</b> Marie Skłodowska-Curie Individual Fellowships - Standard European Fellowships. Coordinator: Dr. Evelyne Costes. Proponent: Vítor da Silveira Falavigna.</p> <p><b>2016-2018 Status:</b> approved. Genetic and molecular characterization of bud dormancy in apple: deciphering candidate gene roles in dormancy regulation. <b>Funding institution:</b> Agropolis (France) and Embrapa (Brazil). Coordinator: Dr. Evelyne Costes and Dr. Luís Fernando Revers</p>
Awards and prizes, if any	<p><b>2015</b> Spanish Language proficiency in reading</p> <p><b>2014</b> TOEFL ITP</p> <p><b>2013</b> Honorable mention in the Scientific Initiation Panel of the IV Brazilian Symposium on Plant Molecular Genetics</p> <p><b>2011</b> English Language proficiency in reading</p>

### Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	<p><b>2014-2017</b> Gene prospecting and development of biotechnological tools for apple dormancy control aiming adaptation to climate changes. <b>Funding institution:</b> Embrapa (Brazil). Coordinator: Dr. Luís Fernando Revers</p> <p><b>2014-2016</b> Use of plant plasmids to transfer resistance to <i>Venturia inaequalis</i> in apple (<i>Malus x domestica</i>). <b>Funding institution:</b> CNPq (Brazil). Coordinator: Prof. Dr. Felipe dos Santos Maraschin</p>
Graduate teaching as lecturer or training coordinator; PhD supervision	Supervision of an undergraduate student in Bioprocess Engineering and Biotechnology (UERGS, Brazil). Yohanna Evelyn Miotto (2013) <i>Identification and spatio-temporal characterization of genes coding galactinol synthases in apple (Malus x domestica Borkh.)</i> .

## Research management, Technology transfer, and Communication

<b>Other experience and skills relevant to the application</b>	<p><b>Genetics and Molecular Biology:</b> molecular cloning techniques, gene expression analyses by RT-PCR, RT-qPCR, <i>in situ</i> hybridization, microarray and suppression subtractive hybridization, genetic transformation of <i>E. coli</i>, <i>A. tumefaciens</i> and <i>Arabidopsis thaliana</i>, metabolite quantification by UPLC MS/MS, sequencing, cDNA libraries construction and ESTs generation.</p> <p><b>Microscopy:</b> optical and confocal microscope.</p> <p><b>Bioinformatics:</b> analysis of DNA and protein sequences employing multiple platforms, evolutionary analyses employing phylogeny, synteny and collinearity algorithms.</p> <p><b>Biological Material:</b> <i>Malus x domestica</i>, <i>A. thaliana</i> and <i>Vitis vinifera</i>.</p>
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## Scientific References

Full name	<i>Luís Fernando Revers</i>
Position	<i>Researcher</i>
Institution	<i>Embrapa Uva e Vinho</i>
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Full name	<i>Giancarlo Pasquali</i>
Position	<i>Professor</i>
Institution	<i>Federal University of Rio Grande do Sul</i>
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Full name	<i>Márcia Margis-Pinheiro</i>
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Institution	<i>Federal University of Rio Grande do Sul</i>
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## How did you hear about AgreenSkills programmes?

<p><i>Please indicate here how you first heard of the AgreenSkills+ programme (e.g. university call for applications, job mailing list/website, magazine advertisement, network, etc.)</i></p>	<p>I first heard about the AgreenSkills+ programme through my research network. During my PhD I had the chance to know Dr. Evelyne Costes, a researcher from INRA, and we applied together for funding in a bipartite call between France and Brazil (Agropolis-Embrapa). Our proposal was approved for funding and predicted the joining of a Post-doc fellow in order to help the execution of the project in the French part. In this context, Dr. E. Costes offered me an opportunity to work in her team and told me about the AgreenSkills+ call for Post-Doc fellows. Given that I recently finished my PhD, this call is a unique opportunity to improve my career.</p>
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