

Projects realized under the BAG alliance



Bordeaux-Adelaide-Geisenheim Alliance

- > In 2013, the University of Geisenheim (HGU), the Institut des Sciences de la Vigne et du Vin (ISVV) in Bordeaux, the Australian Wine Research Institute (AWRI) and the Universities in Adelaide (UniA and UNISA) founded the virtual institute Bordeaux-Adelaide-Geisenheim Alliance (BAG alliance).
- > Its aim is to represent an internationally renowned platform that allows tackling globally relevant research questions with a unified strategy. Initially the following projects were launched.:
 - > Adaptation to climate change
 - > Management of the spoilage yeast *Brettanomyces*
 - > Grapevine trunk diseases
 - > Consumer behavior in China
 - > Genomics and metabolomics of vines
 - > Agro-ecology
- > The institute serves as a platform for common research and teaching projects, supports exchange of students, scientists and staff, increases communication not only within the academic sector but also to other stakeholders in viticulture and enology.
- > So far, nine PhD thesis have been carried out under the BAG alliances roof (seven concluded, two expected to finish in 2018), two postdoc projects were carried out and a French-German graduate school was established (see below).
- > The project was financed in part by the Land of Hessen, the regional council of Nouvelle Aquitaine (formerly region Aquitaine-Li-mousin-Poitou-Charentes), the government of South Australia and funds from the AWRI. The partners are now working on a new strategy for the sustainable financing of the institute based on increased third-party funding.

2020- ongoing		Evolution of winemaking techniques in the face of climate change, impact on the composition of wines and consumer expectations	HGU, UBx
2020- ongoing		Grapevine entomopathogenic fungi and their endophytic potential to regulate pest populations under climate change	HGU, UBx
2019- ongoing		Exploration of the phenomena associated with the production of pyrrole and pyridine derivatives responsible for mousy off-flavor in wines	HGU, UBx, AWRI
2019- ongoing		Impact of elevated carbon dioxide on grapevine physiology, berry development, metabolism	HGU, UBx
2018-2021	Graduate School	Climate change impact and sustainability in special crops and their products	HGU, UBx AWRI UniA
2016-2017	Post-doc	Yeast 2.0 – synthetically-tailored <i>Saccharomyces cerevisiae</i>	HGU, UBx
2016-2020	PhD thesis	The formation, sensory contribution and management of 1,1,6-trimethyl-1,2-dihydronaphthalene (TDN) in grapes and wines of <i>Vitis vinifera</i> L. cv. Riesling	HGU, AWRI
2015-2019	PhD thesis	Influence of climate change on the secondary metabolism of white grape varieties (Riesling, Sauvignon blanc) "heatberry"	HGU, UBx AWRI
2015-2018	PhD thesis	Microclimate of grape berries and quality - aromas, modeling and adaptation to climate change	UBx, AWRI
2015-exp. 2018	PhD thesis	Grapevine planting age and its impact on vegetative parameters as well as fruit and wine quality	HGU, UBx
2014-exp. 2018	PhD thesis	Drivers and inhibitors of consumer adoption to a new product category in emerging market – the case of wine in China	UNISA, HGU, AWRI
2014-2017	PhD thesis	Comparative and functional genomics of <i>Dekkera</i> (Brettanomyces) <i>bruxel-lensis</i>	UniA, AWRI, UBx
2014-2015	Post-doc	Brettanomyces – Genome, biodiversity and management strategies	AWRI UBx HGU
2012-2016	PhD thesis	Investigation of the effect of malolactic fermentation (MLF) on the flavor and volatile composition of wines from certain varieties	HGU, UBx
2009-2011	PhD thesis	Physiology of rootstock adaptation to environmental stress	HGU, UBx
2008-2013	PhD thesis	Influencing factors on aromatic typicality of wines from <i>Vitis vinifera</i> l. cv. Riesling	HGU, UBx JLU

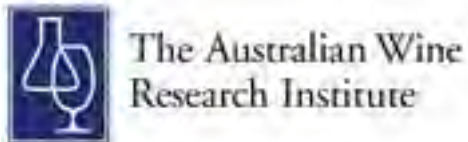


Climate change impact and sustainability in special crops and their products

- > The French-German graduate school has started in January 2018 and will allow increased mobility of PhD students between Bordeaux, Geisenheim and Adelaide.
- > Projects will focus on climate change as an essential factor in agricultural production of special crops, influencing the complete value chain from the plant to its primary and secondary products.
- > Students in the program will spend approx. 50% of their project time in Bordeaux and 50% in Geisenheim with an optional research stay of six months in Adelaide. In addition to their multidisciplinary scientific education, participants will receive language classes and participate in focused summer school programs. They will finish their thesis with one defense and receive one PhD award with two diplomas (from Bordeaux and Geisenheim, respectively).
- > The graduate school is funded by the Franco-German University: <https://www.dfh-ufa.org/startseite/>



PARTNER



Management team

ISVV:

Pierre-Louis TEISSEDRE

Professeur

E-mail: pierre-louis.teissedre@u-bordeaux.fr

Hochschule Geisenheim University:

Dr. Christiane Jost

Forschungsförderung und Wissenstransfer

E-Mail: Christiane.Jost@hs-gm.de

CONTACT

Prof. Dr. **Alain Blanchard**

Director

Institut des Sciences de la Vigne et du Vin

210 chemin de Leysotte - CS 50008

F-33882 Villenave d'Ornon

www.isvv.fr

Dr **Mark Krstic**

Managing Director

The Australian Wine Research Institute

Hartley Grove cnr Paratoo Road, Urrbrae (Adelaide) SA

5064 PO Box 197, Glen Osmond SA 5064, Australia

www.awri.com.au

Prof. Dr. **Hans Reiner Schultz**

President

Hochschule Geisenheim University

Von-Lade-Str. 1

D-65366 Geisenheim



Hochschule Geisenheim University

Von-Lade-Str. 1

65366 Geisenheim

Germany

info@hs-geisenheim.de

www.hs-geisenheim.de

www.facebook.com/hsggeisenheim



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