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 alliance roof (seven concluded, two expected to finish in 2018), two postdoc projects were carried out and a French-German postdoc project was completed.

The project was financed in part by the Land of Hessen, the regional council of Nouvelle Aquitaine (formerly region Aquitaine-Limousin-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.

### Bordeaux-Adelaide-Geisenheim Alliance

Projects realized under the BAG alliance

| 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 | Postdoc | Yeast 2.0 - synthetically-tailored Saccharomyces cerevisiae | HGU, UBx |
| 2016-2020 | PhD thesis | The formation, sensory contribution and management of 1,1,6-trimethyl-1,2-dihyronaphthalene (TDN) in grapes and wines of Vitis vinifera L. cv. Riesling | HGU, 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 |
| 2014-2015 | Postdoc | 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 typicity of wines from Vitis vinifera 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/
Contact:

Prof. Dr. Alain Blanchard
Director
Institut des Sciences de la Vigne et du Vin
210 chemin de Leyssotte - 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

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

www.hs-geisenheim.de