

Sensory Characterisation of oldvine Chenin blanc wine

A Scientific Perspective on the in-mouth sensations in old-vine Chenin blanc wines and sensory profiling of this category

Valeria Panzeri Renée Crous (MSc) Dr Hélène Nieuwoudt





Context for this study

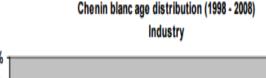
Old-vine Chenin

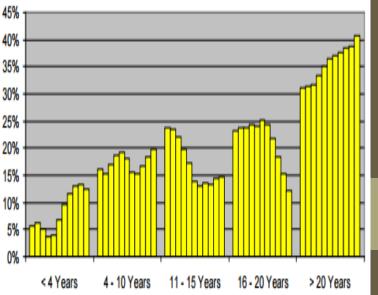
- Majority of SA Chenin blanc vineyards are older than 20 years
- Old-vine wines are produced from vineyards >35 years
- > 18,56% of these is Chenin blanc The most abundant white variety grown in SA (SAWIS, 2017)

Previous research on this variety focussed on aroma only:

- Chemical and Sensory profiling of aroma dry and semi-dry South African Chenin blanc wines (van Antwerpen, 2012)
- Chemical, sensory and consumer profiling of a selection of South African Chenin blanc wines produced from bush vines (Hanekom, 2012)
- Classifying South African Chenin blanc wine styles (Bester, 2010)
- Characterisation of Chenin blanc wines produced by natural fermentation and skin contact (Weightman, 2014)
- Chemical evaluation and sensory relevance of thiols in South African Chenin Blanc wines (Wilson, 2016)









Problem Statement

Variety of different Chenin blanc styles have been profiled – an important category is lacking : Old-vine Chenin blanc

Clear: Wine should not only be analysed i.t.o. aroma, also on in-mouth sensations.

But - seldom included in descriptive sensory analysis (DA) and profiling of wine, especially white.

Why? Abstract and complex concepts; difficult to standardise; individuals' own perceptions; difficult to reach panel consensus



Research objectives & tasks

- 1. Investigating the in-mouth sensations of Old-vine Chenin blanc wines
 - Mining Platter's Wine Guide Data
- 2. Training of DA panel to Profile the selected samples of Old-vine Chenin blanc
 - Establish Reference Standards (Aroma & in-mouth sensations)
 - Test the panel for consistency and discriminating abilities
- 3. Profiling the selected samples of Old-vine Chenin blanc i.t.o. Aroma & inmouth sensations
 - Expand Chenin blanc data base
 - Update Sensory wheel

Platter's Wine Guide: in-mouth sensations >40 year Old-Vine Wines



field of wine

Sensory characterisation in-mouth sensations: Old-vine Chenins

By: trained panel

19 Wines



- DA
- Consensus training
- Ballot training









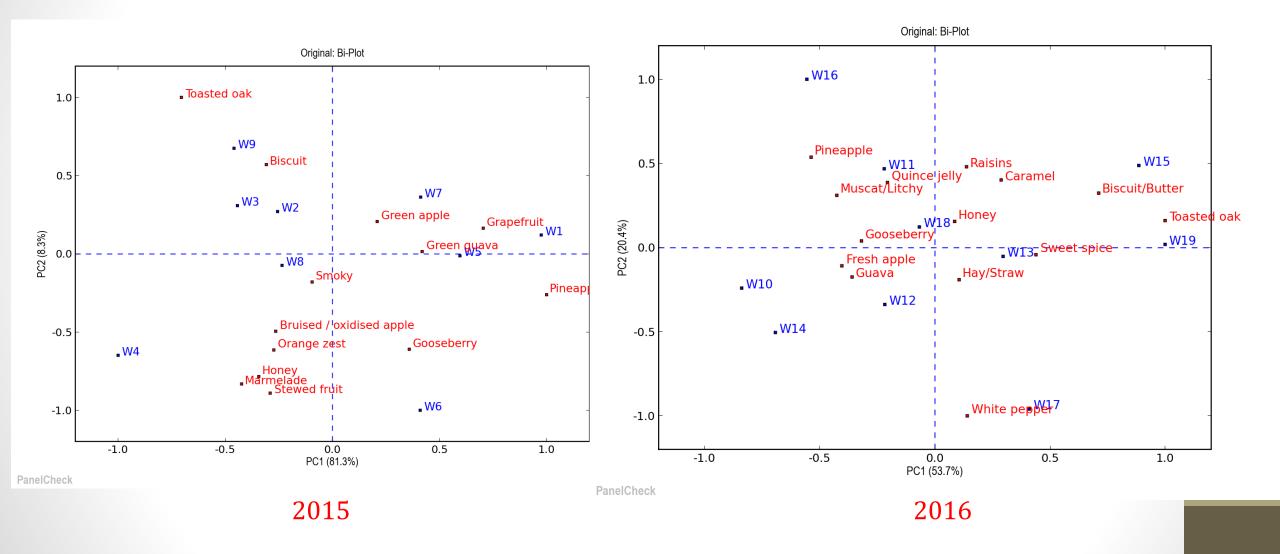
in-mouth sensations significantly different between old-vine and young-vine wines



in-mouth sensations NOT significantly different between old-vine and young-vine wines



Sensory characterisation aroma: Old-vine Chenins



Updated aroma wheel: Old-vine attributes included based on this research Aromas of South African Chenin blanc wines YAAITAAT

Acknowledgements

- Supervisor: Dr Hélène Nieuwoudt (hhn@sun.ac.za)
- Co-supervisor: Valeria Panzeri (panzeri@sun.ac.za)
- Jeanne Brand Sensory Lab
- Rosa Kruger Vineyard Manager
- Cathy van Zyl Chair of Masters of Wine Education Committee
- Ina Smith Manager of the Chenin Blanc Association
- Private cellars Thank you for your cooperation







