

Pinot Noir provenance

Presenters: Fiona Kerslake and Rocco Longo

Project leads: Fiona Kerslake and Gemma Lewis

Collaborators: Rocco Longo, Bob Dambergs, Richard Doyle, Dugald Close, Ange Merry, Hanna Westmore, Linda Donachie















Project Background

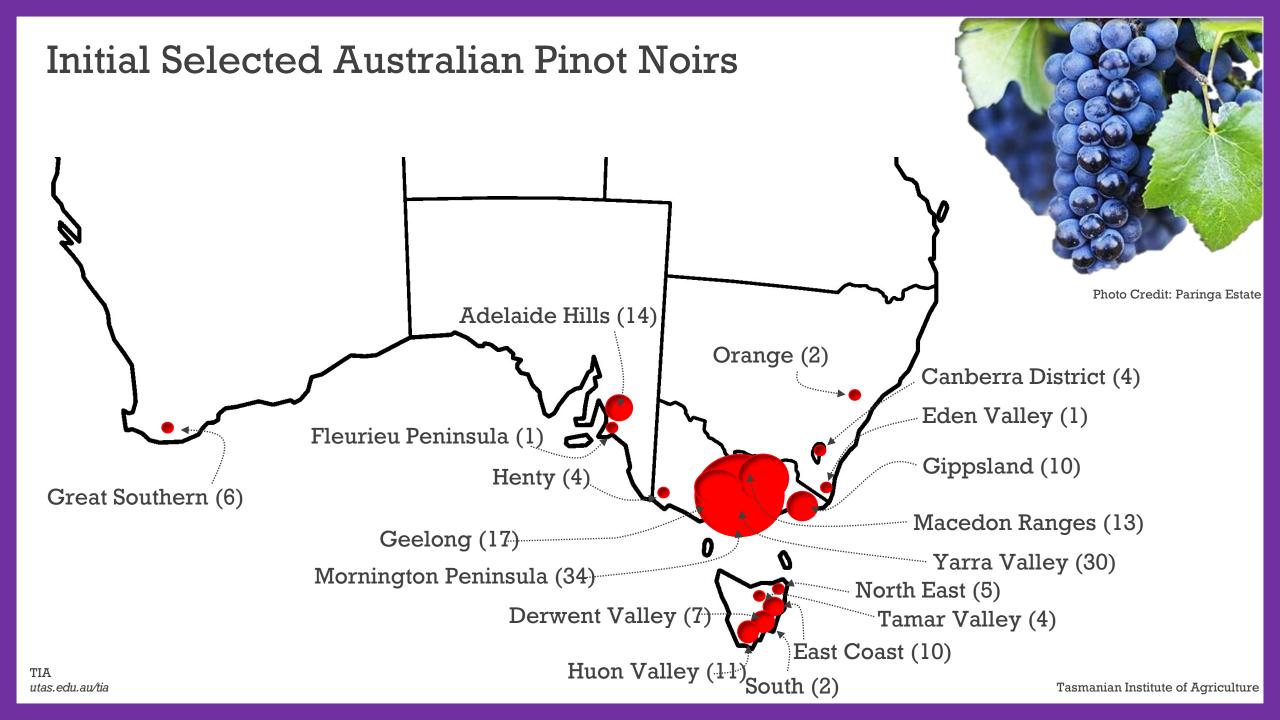
3 years project (from 2017/18 to 2019/20)

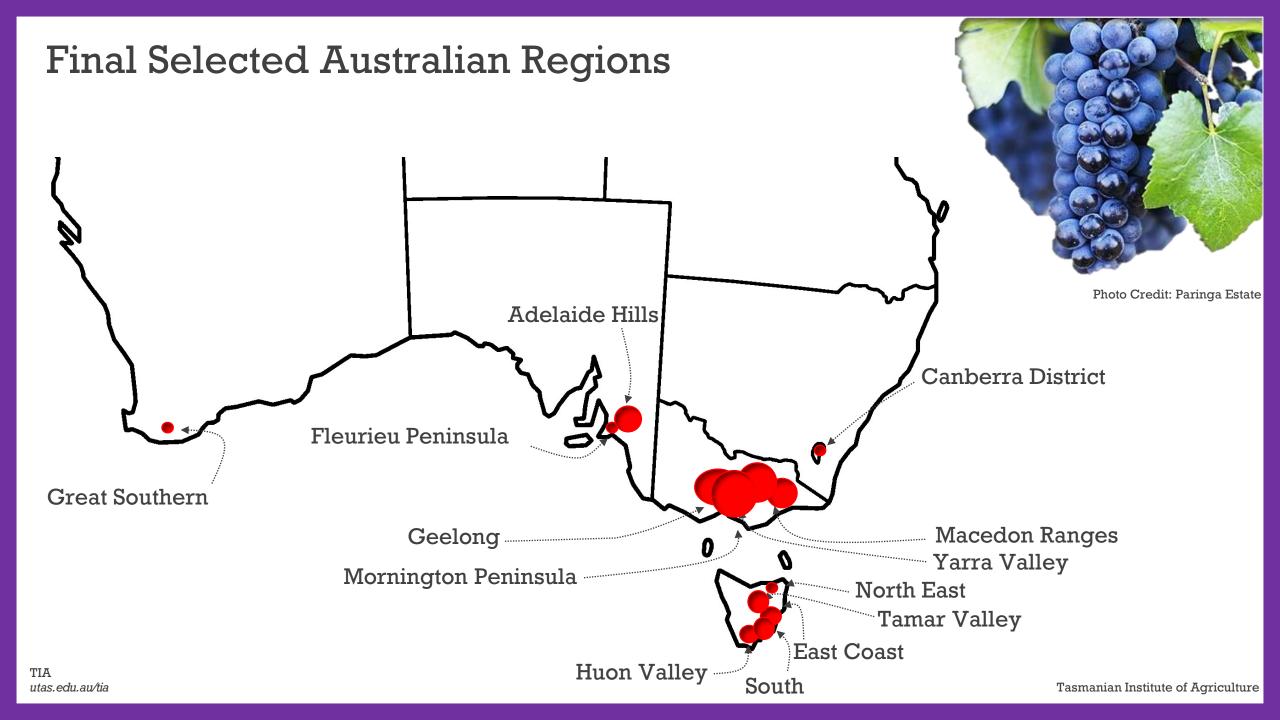
1st Aim: Australian benchmarking to support growing, making, perception of quality

2nd Aim: Australian benchmarking to add value to the Pinot Noir supply chain

Selection Criteria

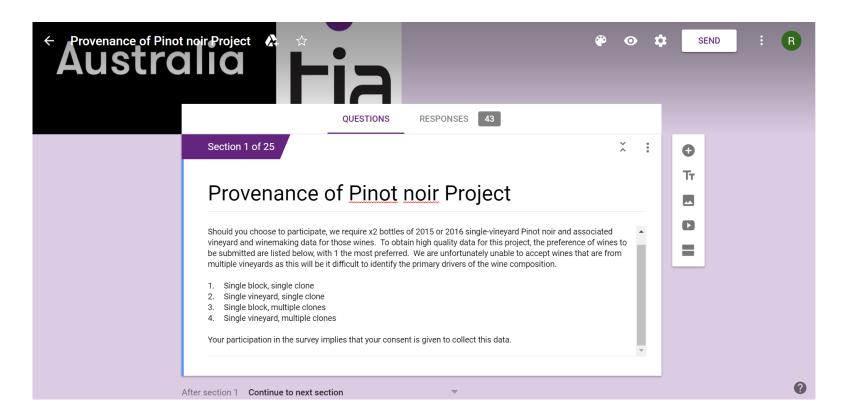
- 1. Acknowledgement by wine masters as being of the very highest standard
- 2. Representative of a geographic spread of Pinot Noir production sites in Australia
- 3. Being produced by a winery that is willing to participate in the research



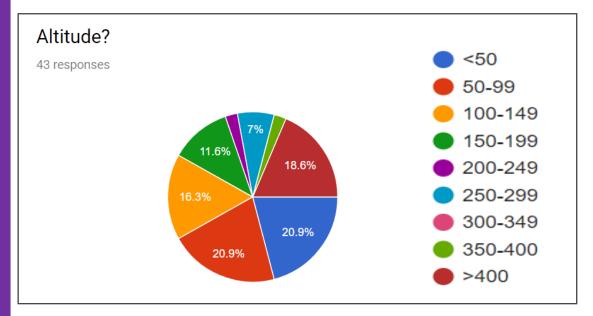


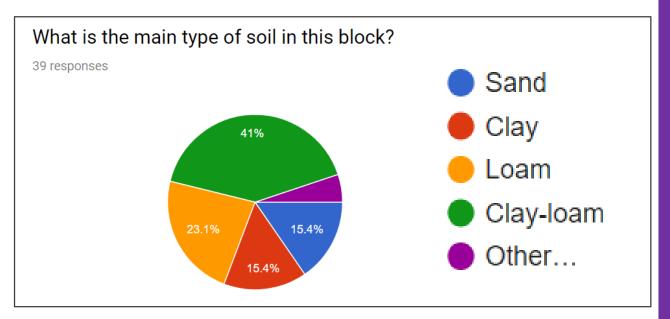
Creation of a Data Base

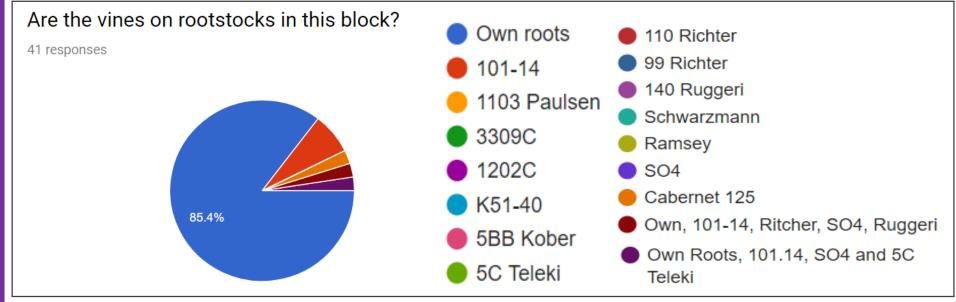
- Online survey: 200 questions
- Vineyard/Vine/Viticultural and Winemaking Management/Marketing



Online Survey Outcomes





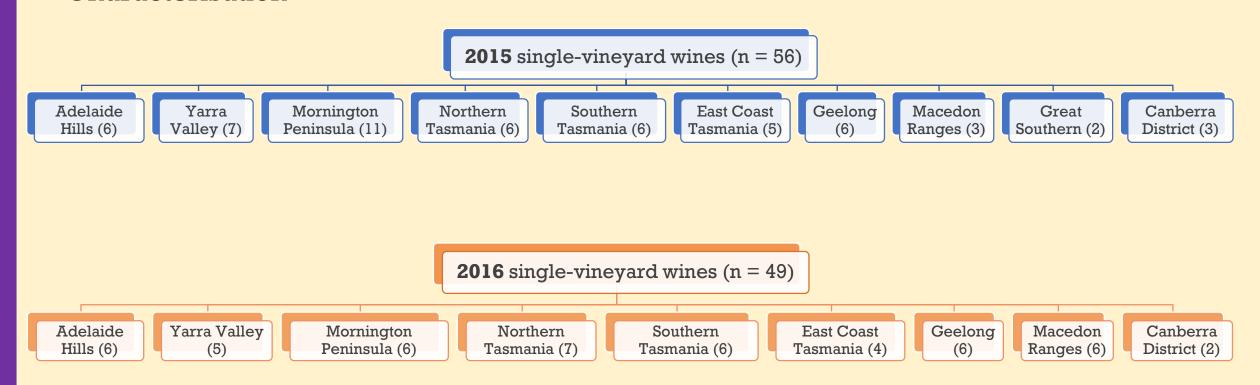




1st Experimental Design:

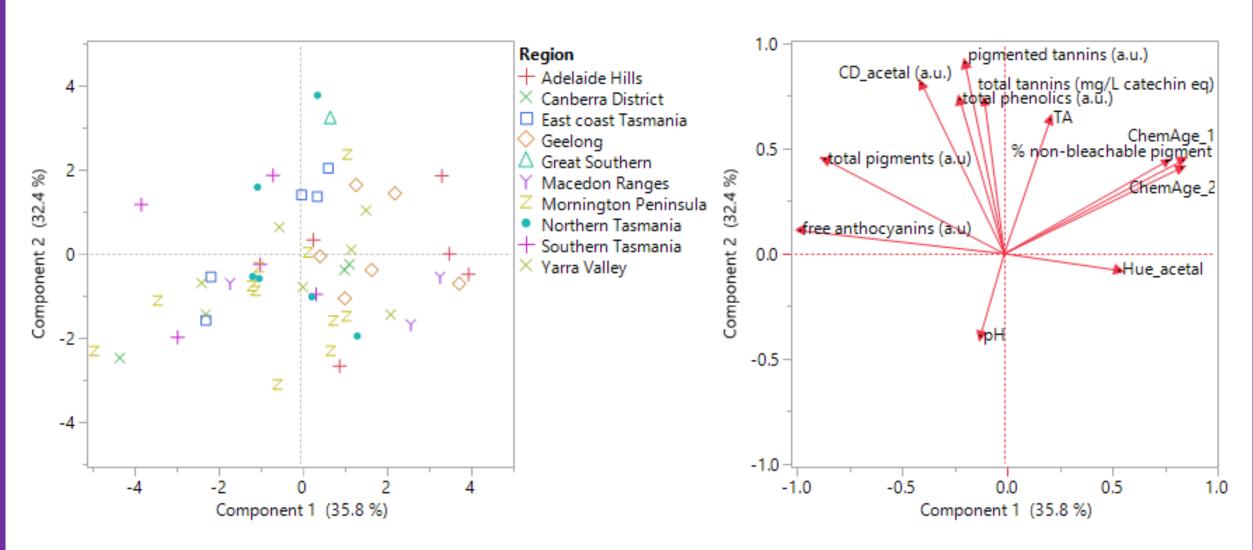
Australian Pinot Noir Wines

 Somers Analysis: Colour + Phenolic Characterisation



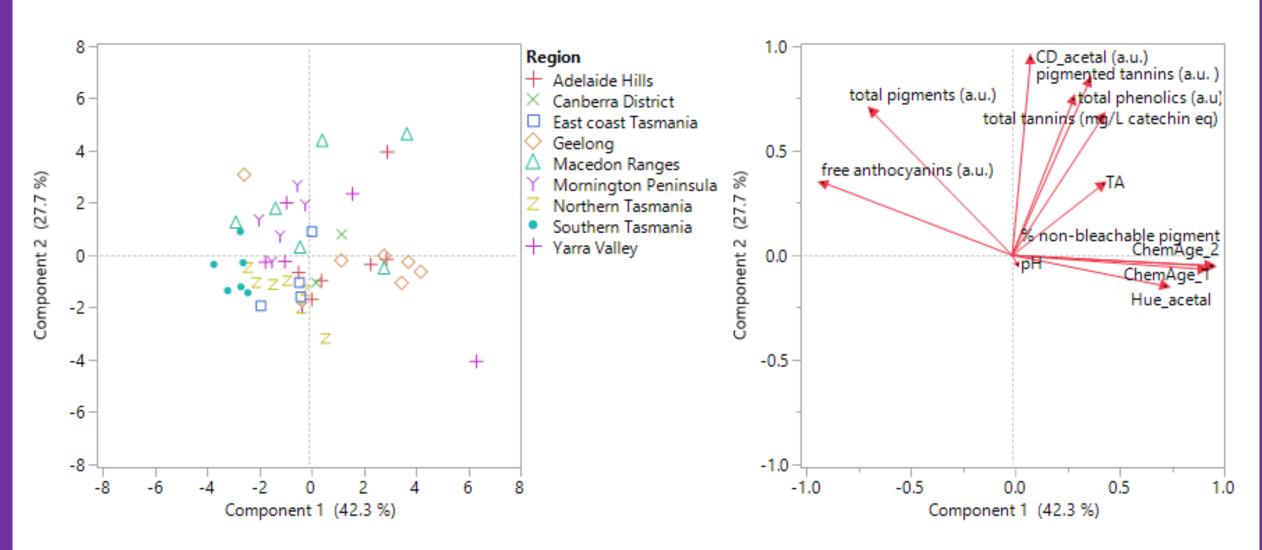


Australian PN 2015 (n = 56) wines



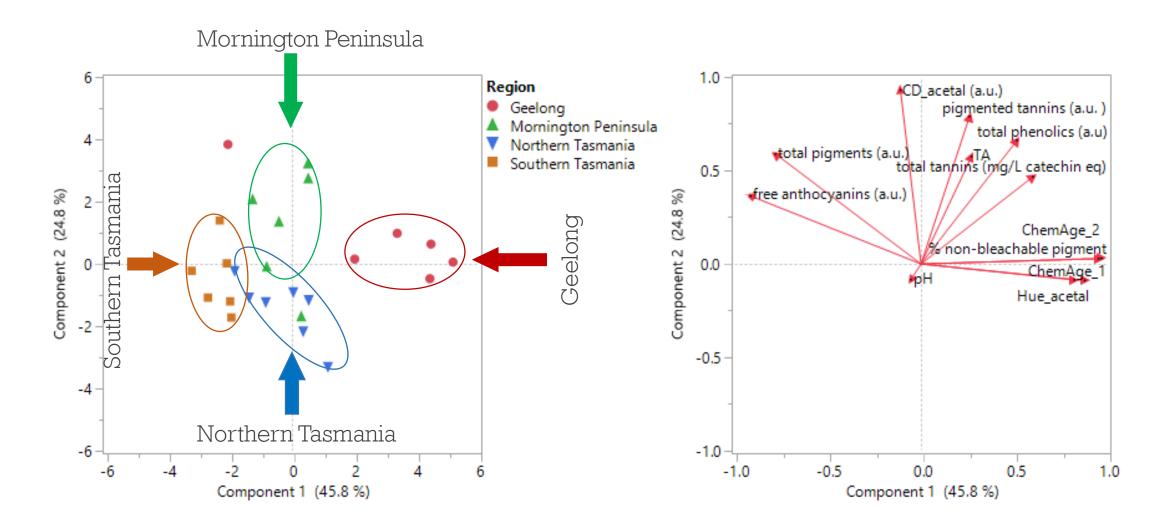


Australian PN 2016 (n = 49) wines

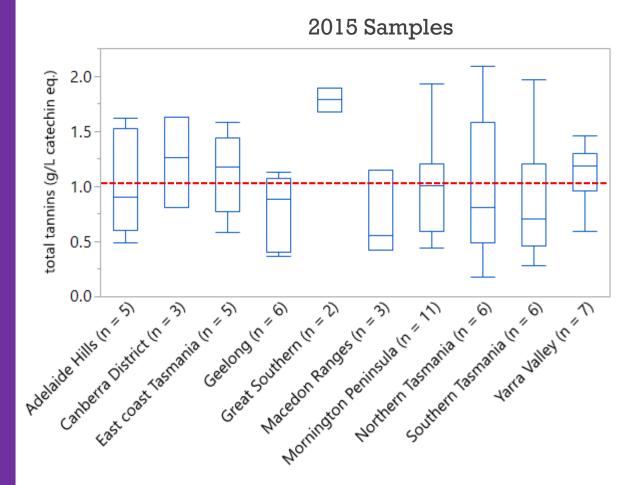


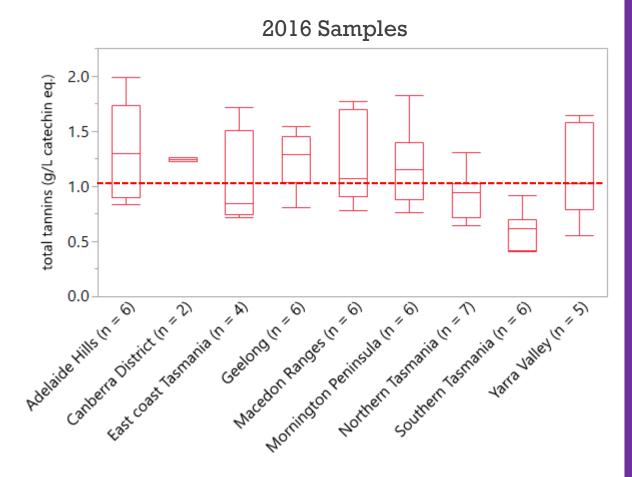


Australian PN 2016 (n = 48) wines

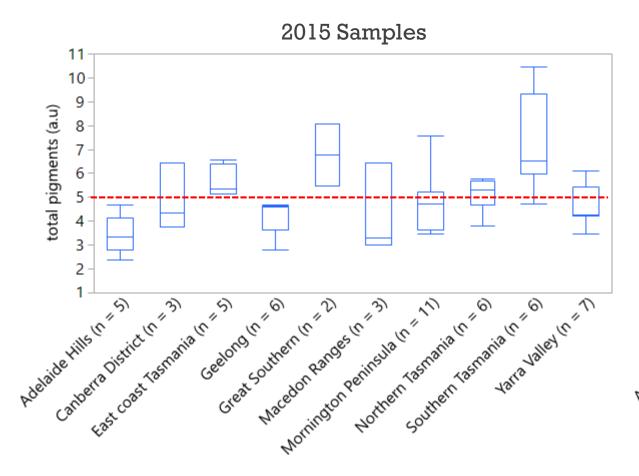


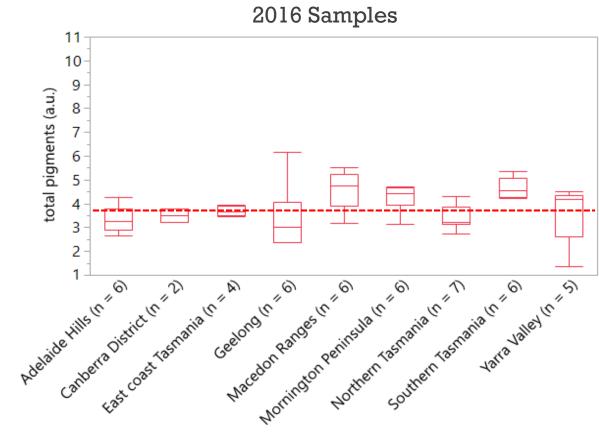




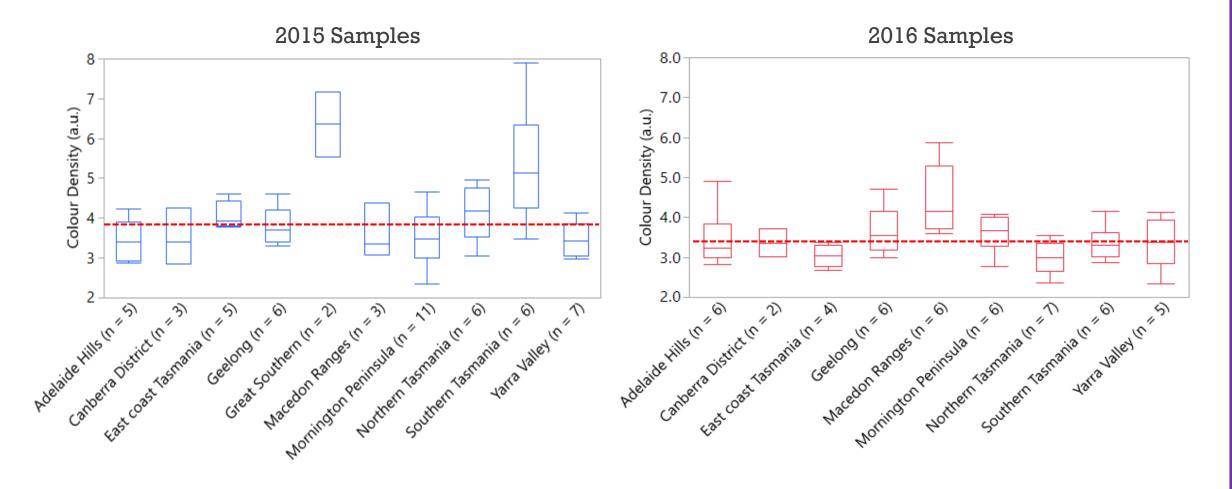




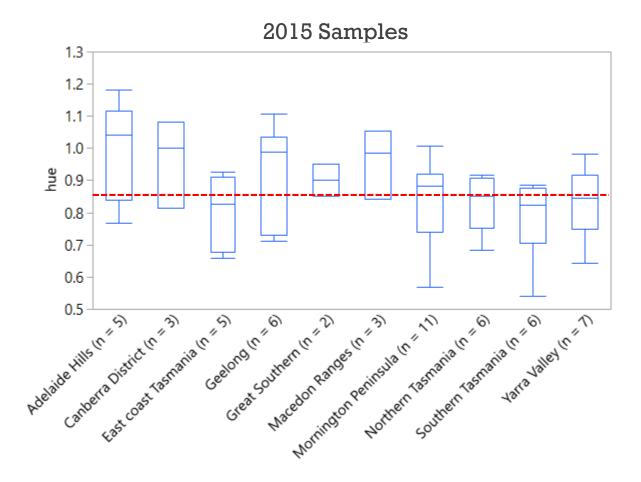


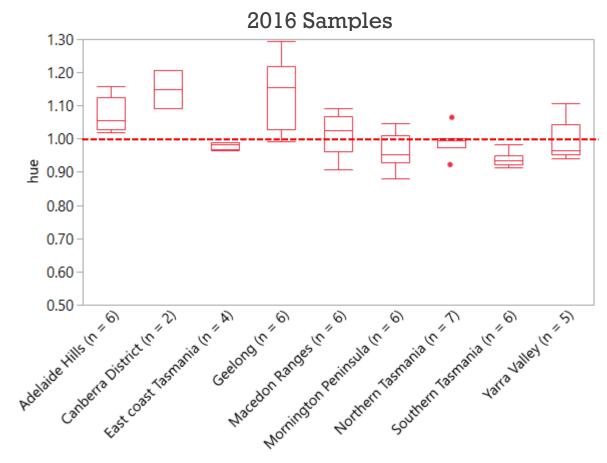






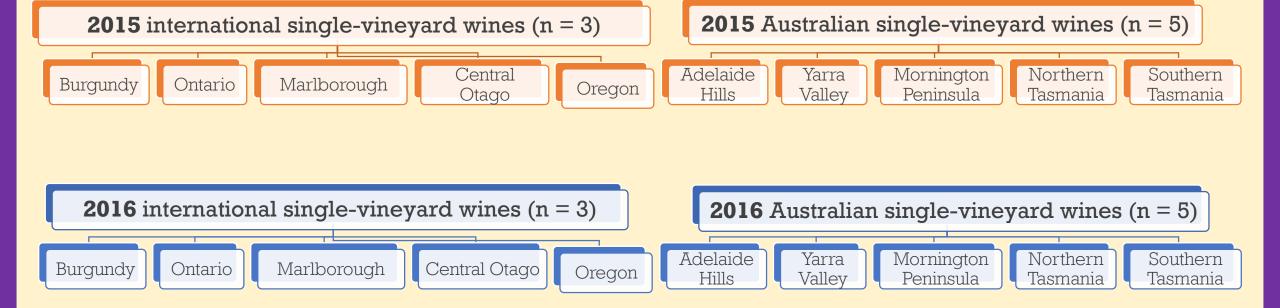




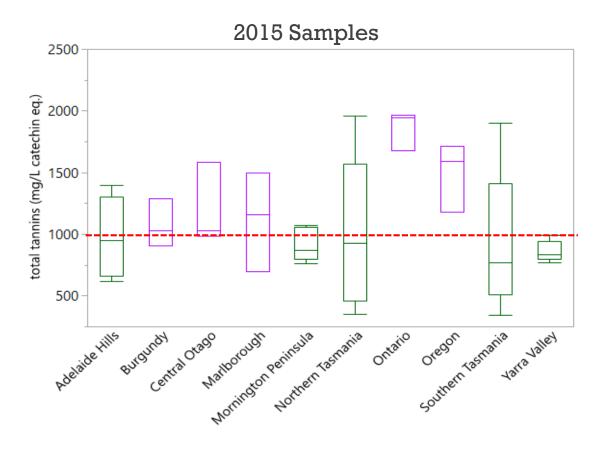


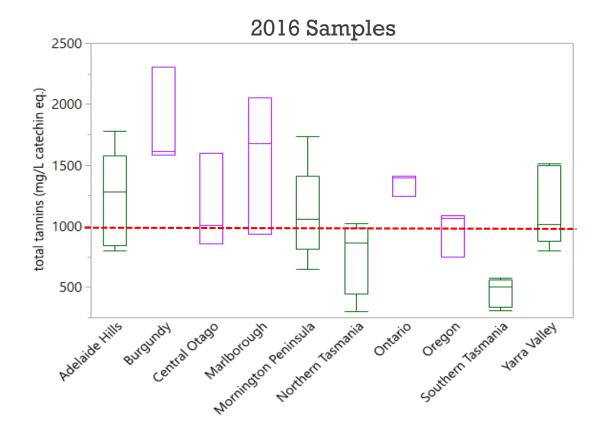
2nd Experimental Design:Australian and International Pinot Noir Wines

- Somers Analysis: Colour + Phenolic Characterisation
- HS-SPME/GC-MS analysis: 21 volatile compounds relevant to Pinot Noir aroma (ongoing)





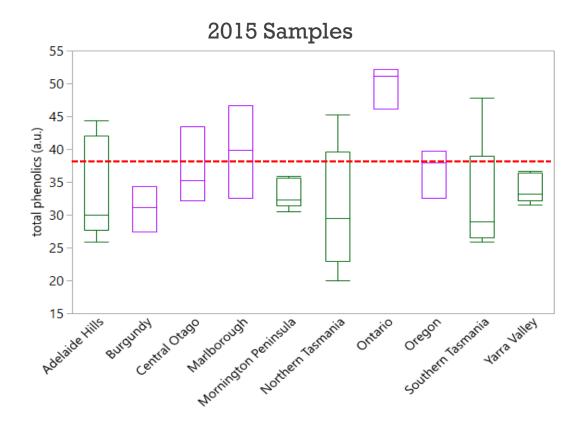


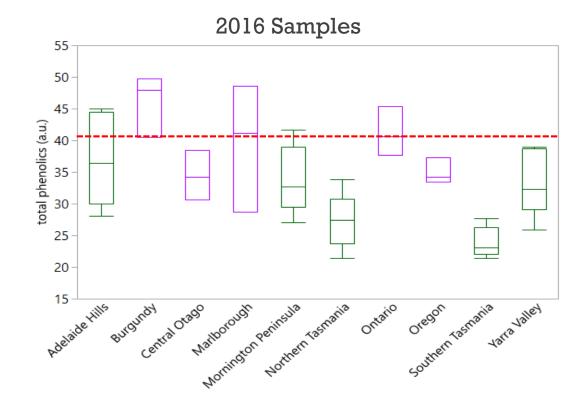


International wine (n = 3)

Australian wine (n = 5)





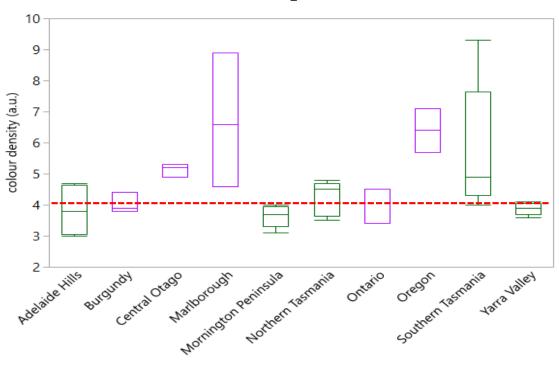


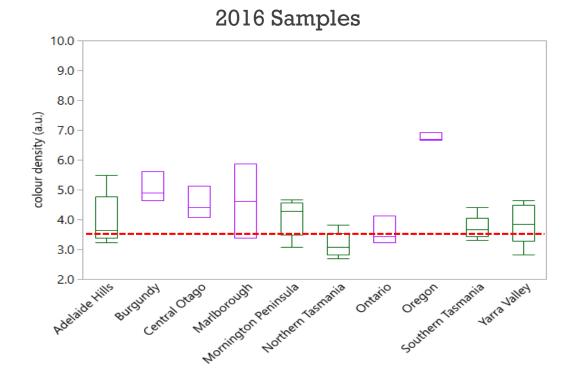
- International wine (n = 3)

Australian wine (n = 5)



2015 Samples

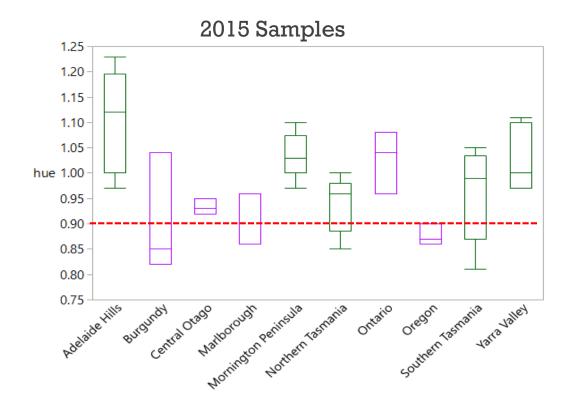


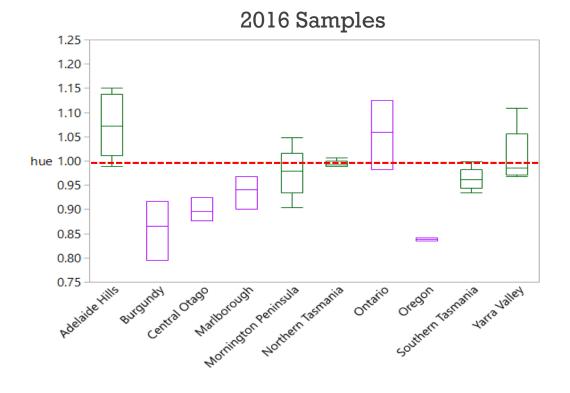


International wine (n = 3)

Australian wine (n = 5)





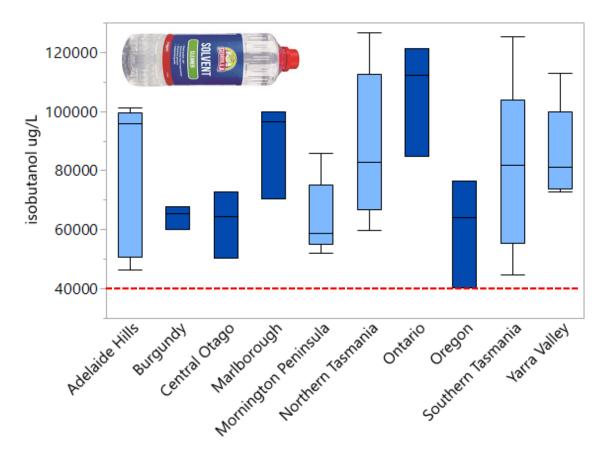


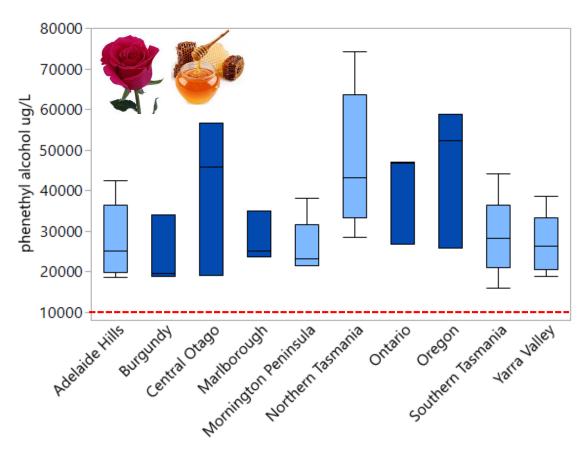
International wine (n = 3)

Australian wine (n = 5)



Aroma Analysis: Australian (n = 25) vs International (n = 15) PN 2015 wines





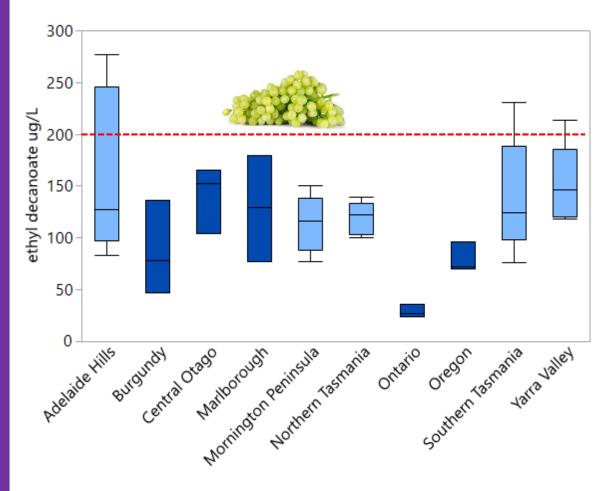
Australian wines (n = 5)

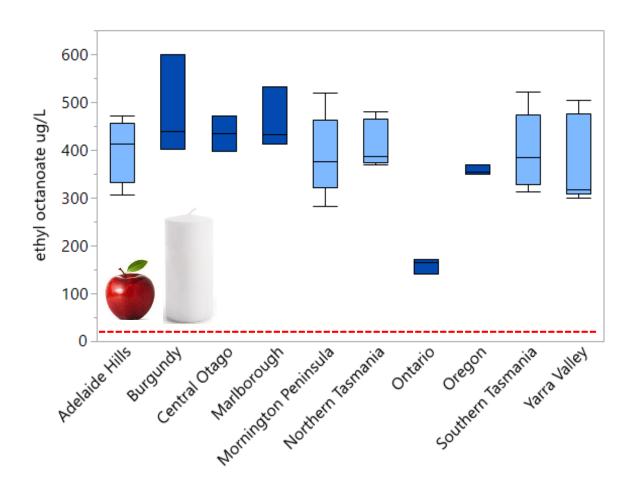
International wines (n = 3)

Odour threshold in 13% v/v ethanol solutions (Francis, I.L. and J.L. Newton, 2005)



Aroma Analysis: Australian (n = 25) vs International (n = 15) PN 2015 wines





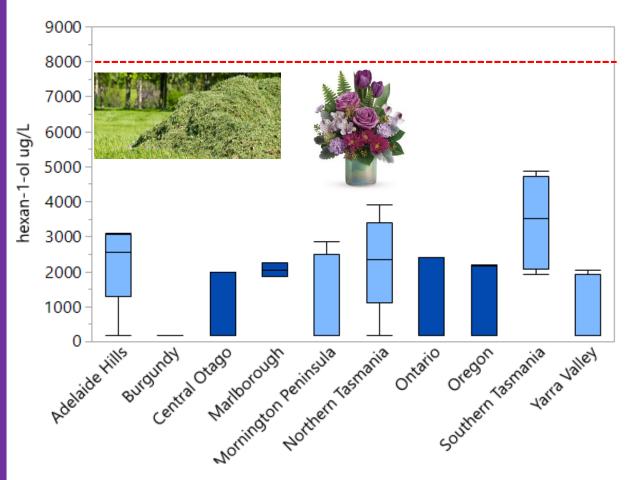
Australian wines (n = 5)

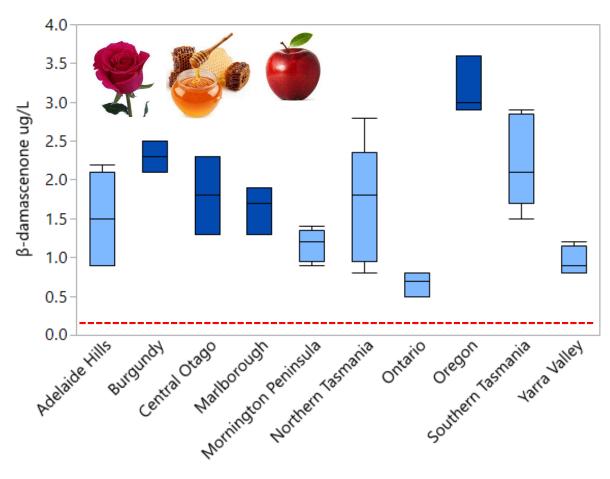
International wines (n = 3)

Odour threshold in 13% v/v ethanol solutions (Francis, I.L. and J.L. Newton, 2005)



Aroma Analysis: Australian (n = 25) vs International (n = 15) PN 2015 wines





Australian wines (n = 5)

International wines (n = 3)

Odour threshold in 13% v/v ethanol solutions (Francis, I.L. and J.L. Newton, 2005)



Thank you for your attention