

PARTICIPANT INFORMATION SHEET

PROJECT TITLE: Use of membrane filtration technology to achieve protein stability in white wine

HUMAN RESEARCH ETHICS COMMITTEE APPROVAL NUMBER: H-2019-073

PRINCIPAL INVESTIGATOR: Professor Kerry Wilkinson

STUDENT RESEARCHER: Yihe (Eva) Sui

STUDENT'S DEGREE: Doctor of Philosophy

Dear Participant,

You are invited to participate in the research project described below.

What is the project about?

The topic of this research project is to achieve white wine protein stability using membrane filtration (MF) technology and aims to investigate the sensory impact of membrane filtration (MF) and heat and/or enzyme treatment of white wine, which conventionally achieved by adding bentonite, a kind of clay fining agent, to remove the protein content. It is hypothesised that membrane filtration could replace traditional bentonite fining agents, however, the proposed treatment may modify the sensory profiles of resulting wine, i.e. wine colour, aroma and flavour profiles, relative to control wines (i.e. to wines stabilised using conventional bentonite fining or wines which are not protein stabilised). We are expecting that applying MF technology to fractionate the wine and performing treatment only on wine retentate will affect the wine quality to a lesser degree compared to the bentonite treatment (BW, wine stabilised by bentonite as part of the traditional white wine making process). This means the wine (FW) treated by the proposed methodology will potentially have better sensory profiles.

Who is undertaking the project?

This project is being conducted by Yihe (Eva) Sui, as a part of the degree of Doctor of Philosophy at the University of Adelaide, under the supervision of Professor Kerry Wilkinson. The researcher will be involved in holding the sensory sessions, preparing for the wine samples, and collecting and analysing sensory data.

This research is funded by the ARC Training Centre for Innovative Wine Production and VA filtration as industry partner.

Why am I being invited to participate?

You are being invited to participate as part of the sensory panel because you are residing in Australia, have previous experience in wine tasting, you are over 18 years of age, and you consume white wine on a regular basis.

What am I being invited to do?

As a participant of the RATA panel you will be attending 1 session only, during which demographic questions will be asked and wine samples will be evaluated the presence and rate of aroma, flavour and mouthfeel appropriate attributes using RedJade software. The sessions will take place in the sensory analysis booths situated in the Wine Innovation Central Building Level 4, Waite Campus (Urrbrae).

How much time will my involvement in the project take?

The RATA tasting session will take no more than 30 minutes and only performed in single session.

Are there any risks associated with participating in this project?

There are no foreseeable risks associated with participating in this research. Participants can withdraw from the study at any time without any negative consequences. There is the potential for glassware to break and thus a low risk of injury; but staff and participants will be inducted in the use of the sensory laboratory and are required to wear enclosed footwear and to dispose of broken glass in the bins provided. All samples will be hygienically prepared with a high standard of food/beverage handling and you are instructed to expectorate the tasted wines.

The risk of intoxication by participants is highly unlikely due to the small amounts of wine being tasted and the requirement that participants must expectorate wines. Nevertheless, an alcohol breath analyser will be made available for use by participants at each session.

In the unlikely event that participants experience any adverse event, contact the Principal Investigator via the contact information provided.

What are the potential benefits of the research project?

The research results will enable winemakers and industry to make more informed decisions regarding the use of MF as an option to stabilise the white wine during winemaking.

Participants will receive an AUD\$10 gift voucher as an incentive for participation (except staff members). After wine tasting, small incentives (a small snack) will be provided to all participants.

Can I withdraw from the project?

Participation in this project is completely voluntary. If you agree to participate, you can withdraw from the study at any time.

What will happen to my information?

Anonymity/confidentiality of participants and their data will be guaranteed during the reporting of research results. Only non-identifiable data will be made publicly available. Participants' data will be stored electronically with password protection, therefore, only the researchers involved in this project will have access to the data. Alternatively, if the data is printed on paper, it will be stored in lockable lockers.

The researchers of this project will have exclusive access to participants' data, no other parties will have access to the information.

Your information will only be used as described in this participant information sheet and it will only be disclosed according to the consent provided, except as required by law.

Who do I contact if I have questions about the project?

If you have any questions, doubts or concerns, don't hesitate to contact Professor Kerry Wilkinson via kerry.wilkinson@adelaide.edu.au or phone (08) 8313 7360 or Dr. Renata Ristic renata.ristic@adelaide.edu.au or phone (08) 8313 0402. You can also contact the researcher Yihe (Eva) Sui via yihe.sui@adelaide.edu.au or phone (08) 8313 0284 any time.

What if I have a complaint or any concerns?

The study has been approved by the Human Research Ethics Committee at the University of Adelaide (approval number H-2019-073). This research project will be conducted according to the NHMRC National Statement on Ethical Conduct in Human Research 2007 (Updated 2018). If you have questions or problems associated with the practical aspects of your participation in the project, or wish to raise a

concern or complaint about the project, then you should consult the Principal Investigator. If you wish to speak with an independent person regarding concerns or a complaint, the University's policy on research involving human participants, or your rights as a participant, please contact the Human Research Ethics Committee's Secretariat on:

Phone: +61 8 8313 6028

Email: hrec@adelaide.edu.au

Post: Level 4, Rundle Mall Plaza, 50 Rundle Mall, ADELAIDE SA 5000

Any complaint or concern will be treated in confidence and fully investigated. You will be informed of the outcome.

If I want to participate, what do I do?

If you wish to participate in this study, please let us know via email to yihe.sui@adelaide.edu.au to confirm your participation.

Yours sincerely,

Professor Kerry Wilkinson

kerry.wilkinson@adelaide.edu.au

Dr Renata Ristic

renata.ristic@adelaide.edu.au

Yihe (Eva) Sui

yihe.sui@adelaide.edu.au