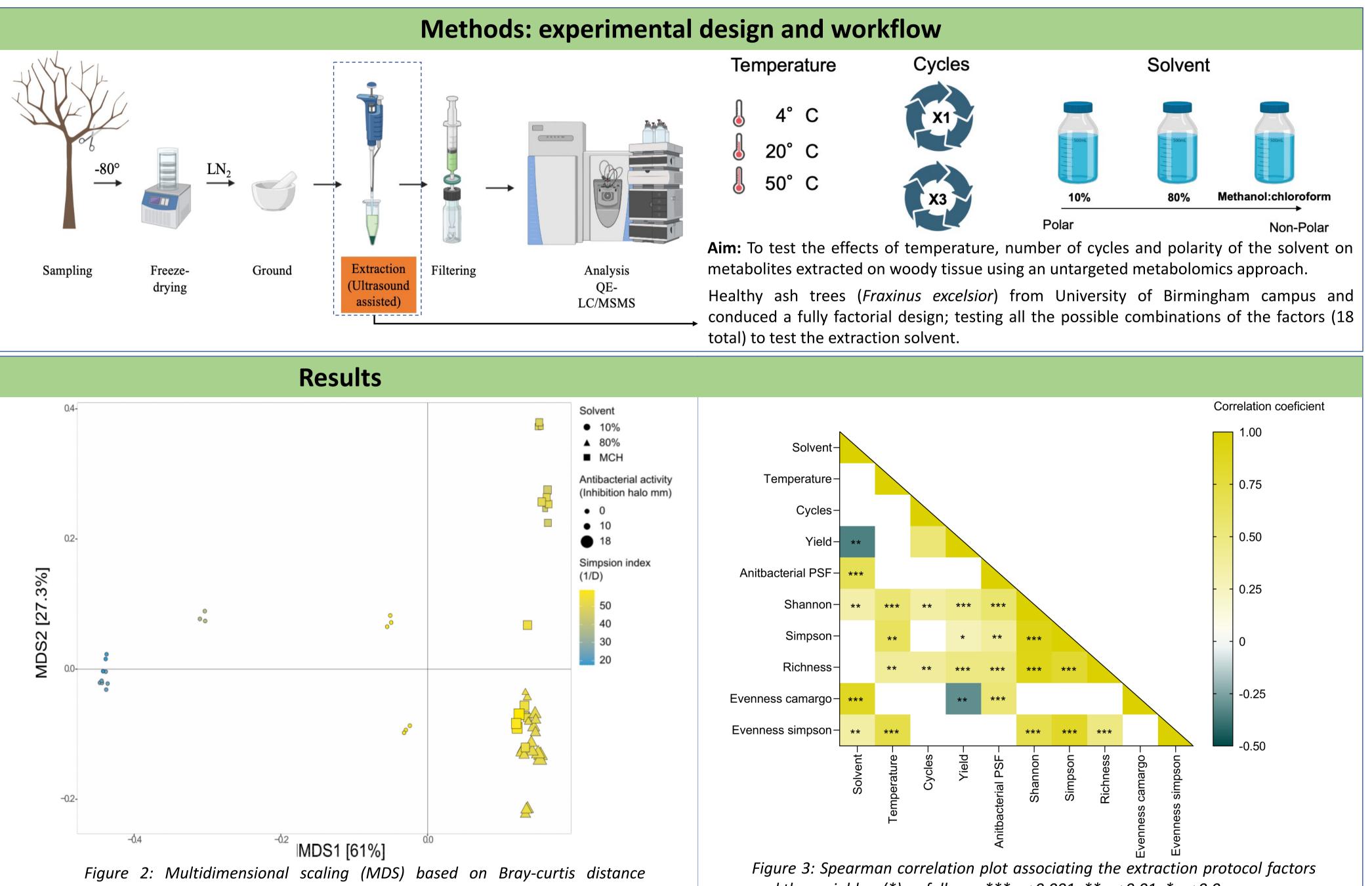
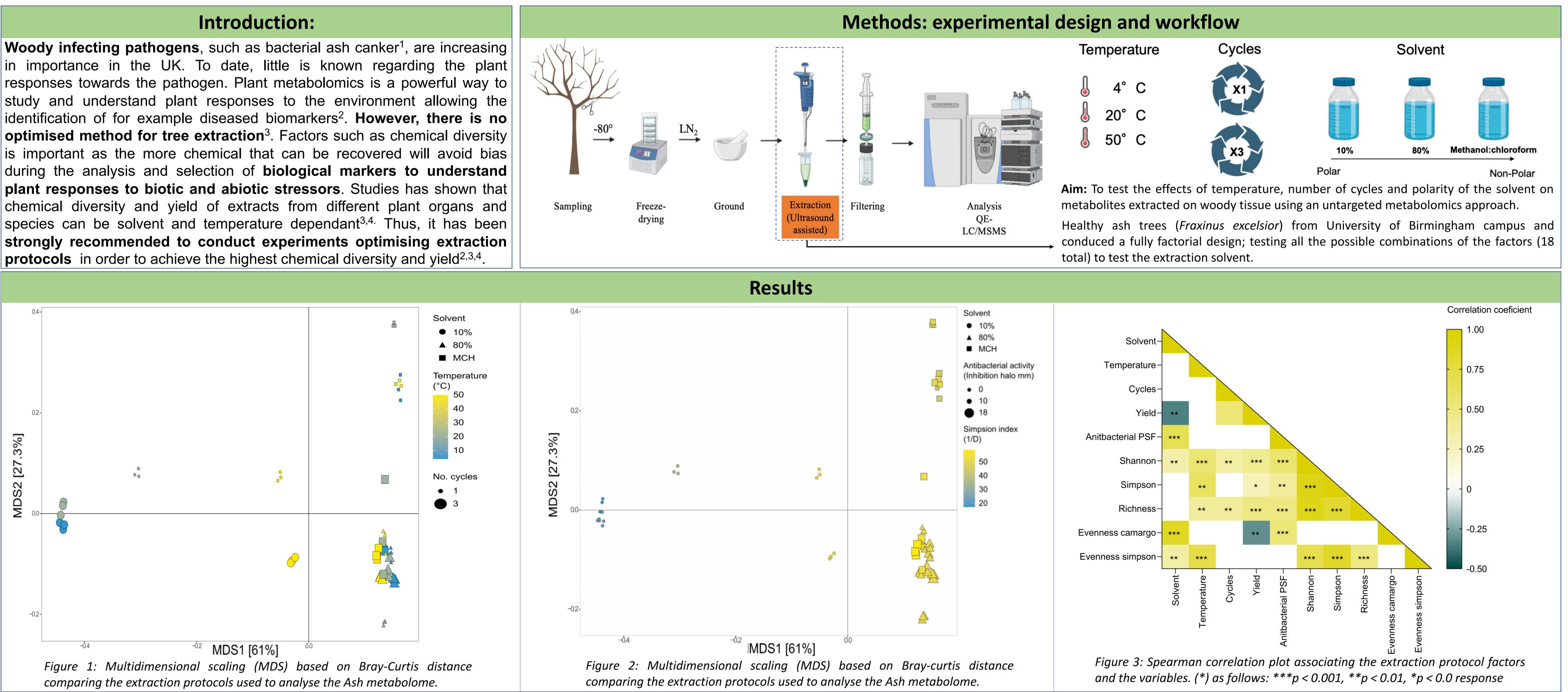


# **UNDERSTANDING PLANT RESPONSES TO PATHOGEN STARTS** WITH A GOOD PROTOCOL

## **UNIVERSITY**OF BIRMINGHAM





### Results

- Results show that clustering according to the factors tested (*Figure 1*)
- · The solvents is having an significant effect on the diversity of cher extracted, due to the varying polarity properties (*Figure 1&2*)
- Diversity is also dependent on the temperature (*Figure 2*), In the case of MeOH, increasing temperature increase diversity.
- Solvent correlated with (inversely) Yield and Anti-bacterial act Temperature& cycles is significantly correlated with richness (*Figure 3*)

Jiaqi Wei, Diana Vinchira-Vilarraga, Mojgan Rabiey, Graeme Kettles, Gerard Clover, Lisa Ward, Robert W. Jackson School of Biosciences, University of Birmingham, Birmingham, B15 2TT. Alice Holt Lodge, Forest Research, Farnham, GU10 4LH

compann	ig the extraction protocols used to unaryse the rish metabolome.	
	Conclusion and recommendation	Reference1)Janse, J1)Janse, J1)https://de2)M. Urpi-43)Amanda4)KelloggMethod illust
emical	<ul> <li>Do different protocols influence the overall metabolites extracted? Yes</li> <li>What is the best protocol for extracting ash metabolites?</li> </ul>	
f 10%	<ul> <li>High temperature 50°C</li> <li>Non-polar (for anti-bacterial activity)- MCH</li> </ul>	2
ctivity,	<ul> <li>Polar (for yield) – 10%</li> <li>Overall- 80% Methanol at 50°C with 3 cycles</li> </ul>	4



### nces:

J.D. (1981). European Journal of Forest Pathology, 11: 306-315. /doi.org/10.1111/j.1439-0329.1981.tb00100.x i-Sarda, et al, Curr. Cardiol. (2015) la et al., RSC Adv., 2014, 4, 26325. DOI: 10.1039/c4ra02731k g et al., 2017, JPBA, <u>https://doi.org/10.1016/j.jpba.2017.07.027</u> strations are made in Biorender.



