

# $\begin{array}{c} \mbox{Probe key-odorants in wine throught online GC/O} \\ \mbox{recombination with olfactoscan} \end{array} \\ \end{array}$

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28<sup>th</sup>-31<sup>st</sup> MAY

ZARAGOZA

P-110

## PROBE KEY-ODORANTS IN WINE THROUGHT ONLINE GC/O RECOMBINATION WITH OLFACTOSCAN

#### <u>Noëlle Béno</u>, Aurélie Loison, Angélique Villière, Yves Le Fur and Thierry Thomas-Danguin



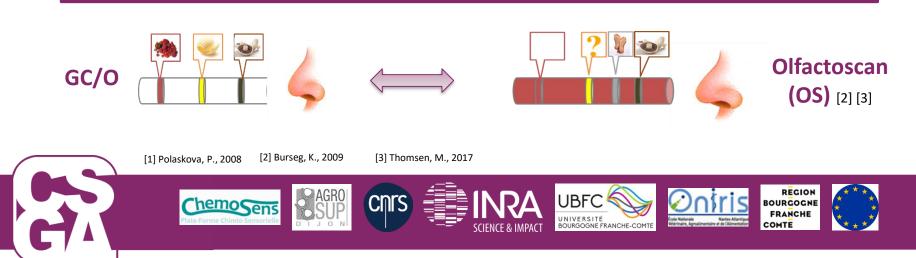
#### CONTEXT

The relationship between the chemical composition and the sensory perception of wine is still poorly understood and it is difficult to identify which flavour compounds drive the typicality of wines in complex mixture of odorants [1].

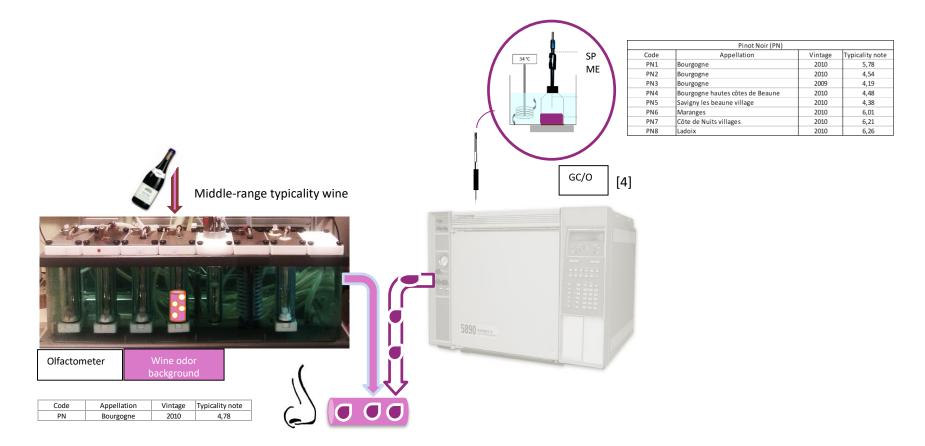
#### **O**BJECTIVE

Evaluate the impact of odorants from Pinot Noir (PN) and Cabernet Franc (CF) wines when added to the complex arom f a middle range typicality wine.

### **STRATEGY**



### MATERIAL AND METHOD: GC/O VERSUS OLFACTOSCAN



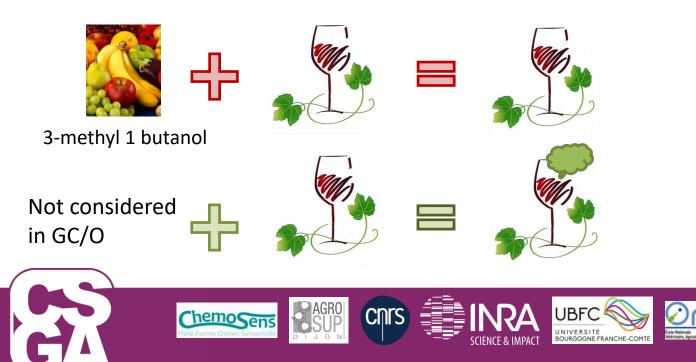
[4] Villiere, A., 2012



### **RESULTS : GC/O VERSUS OLFACTOSCAN**

Wines	LRI 1061	LRI 1082	LRI 1216		LRI 1255		LRI 1309		LRI 1450	LRI 1746	LRI 2112
PN1	-87,5	50		-100	100			-12,5	-75	-37,5	62,5
PN2	-100	62,5		-100	56,25			6,25	-100	12,5	0
PN3	-100	0		-100	56,25			-12,5	-100	0	0
PN4	-100	18,75		-100	62,5			-6,25	-87,5	-18,75	0
PN5	-100	31,25		-81,25	31,25			6,25	-100	-25	0
PN6	-62,5	0		-100	43,75			43,75	-100	-12,5	0
PN7	-100	0		-100	50			25	-100	-12,5	0
PN8	-100	0		-100	31,25			25	-87,5	-12,5	18,75

[5]



[5] Villiere, A., 2018

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### **CONCLUSION**



The results showed that the odorants that influenced the middle range typicality wine odour did not fully superpose with those identified as keyodour compounds in a classical GC/O approach.



Odour masking and synergy effects were observed owing to the Olfactoscan technique and new potential keys-odorants were revealed, but they can't be directly linked to wine Typicality.



the Olfactoscan technique is efficient to probe key-odorants once embedded in an aromatic buffer and confirm the critical influence of perceptual interactions in the perception of wine aroma.





28<sup>th</sup>-31<sup>st</sup> MAY ZARAGOZA



## Thank you for your attention and see you tomorrow at the poster session for further discussions

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