

UNIVERSITÀ DEGLI STUDI DI TORINO

I@UNITO – Visiting Scientists

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Scientific	Scientific	Host	Type of activity	Start of	Language
area	responsible	Department		mobility	
			Reseach		English
AREA 4	ROLLE Luca	DISAFA	Laboratory and	February 2017	
	Giorgio Carlo		statistical		
			elaboration		
Type of	Senior (equal or more than 40 years old)				
fellowship	1 month				
Title of the	Study of correlation between chemical and sensory wine quality in basis to use of ozone in				
research	the viticultural and enology sector.				
project					
Description	The fungicides used in viticulture are numerous, and some of them based on copper and				
of the	sulphur are also used in the organic farming. However, many compounds can be dangerous				
research	for human health. This is the reason which the European Commission has already expressed				
project	its recommendation to reduce the use of several products. Our research group has open				
	lines heading to use of substances activator of the natural mechanisms of plant defence in				
	greenhouse, vineyards and during withering process of grapes.				
	The use of ozone in the vineyard and in postharvest are practices yet started only at				
	experimental level and still lack reliable data about its effects on fungal pathogens, grape				
	mycobiota and quality. Preliminary data reported in the literature are very recently and				
	concern the positive effects of ozone on physical and chemical characteristics of grape at				
	harvest. In this sense we intend to advance the knowledge of how this new strategy affects				
	the quality and the grape and wine. Therefore we would like to verify the effectiveness and				
	applicability in field of ozone against fungal pathogens, together with its possible positive				
	effects on the grape and wine quality (increase of secondary metabolites such as aromas,				
	and polyphenols).				
	Therefore chemical and sensory methodologies are necessary to evaluate the wine quality. The integration of different disciplines will be very useful to very useful for the development of this research.				
Profile	Expert on Grape and wine quality:				
Description	-Sensory Analysis by Quantitative Descriptive Analysis (QDA) -Grape and wine volatile characterization by GC-MS -Extraction techniques of volatile compounds (SPE)				
	-Correlation be		-		
Research	The main objective will be to evaluate the effect of the use of ozone in the vineyard on grape				
objectives	quantitative descriptive analysis (QDA) could be used to established correlations between chemical compounds and sensory descriptors in wines				
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