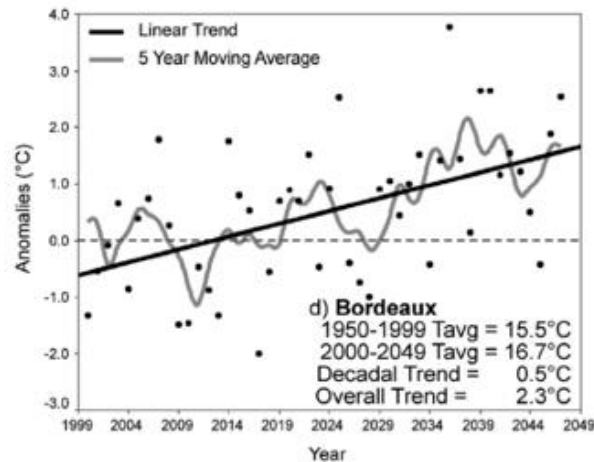
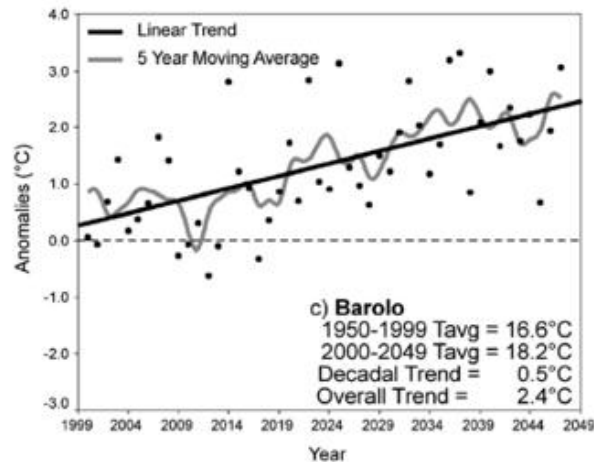
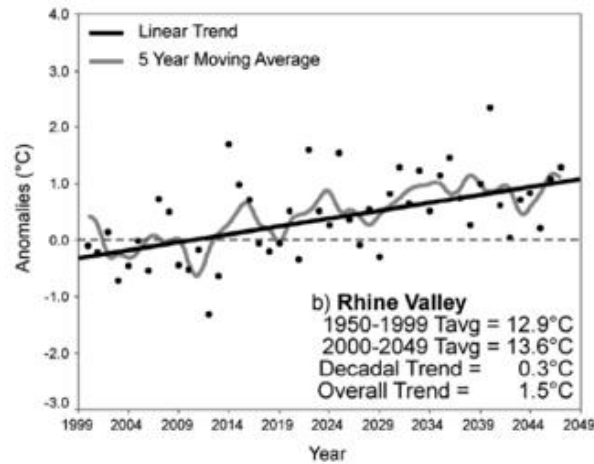
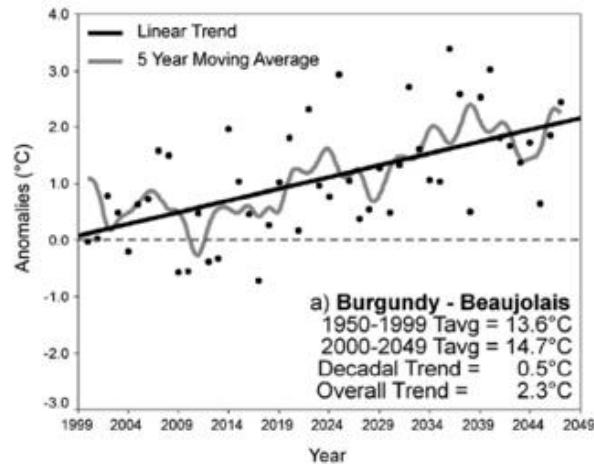




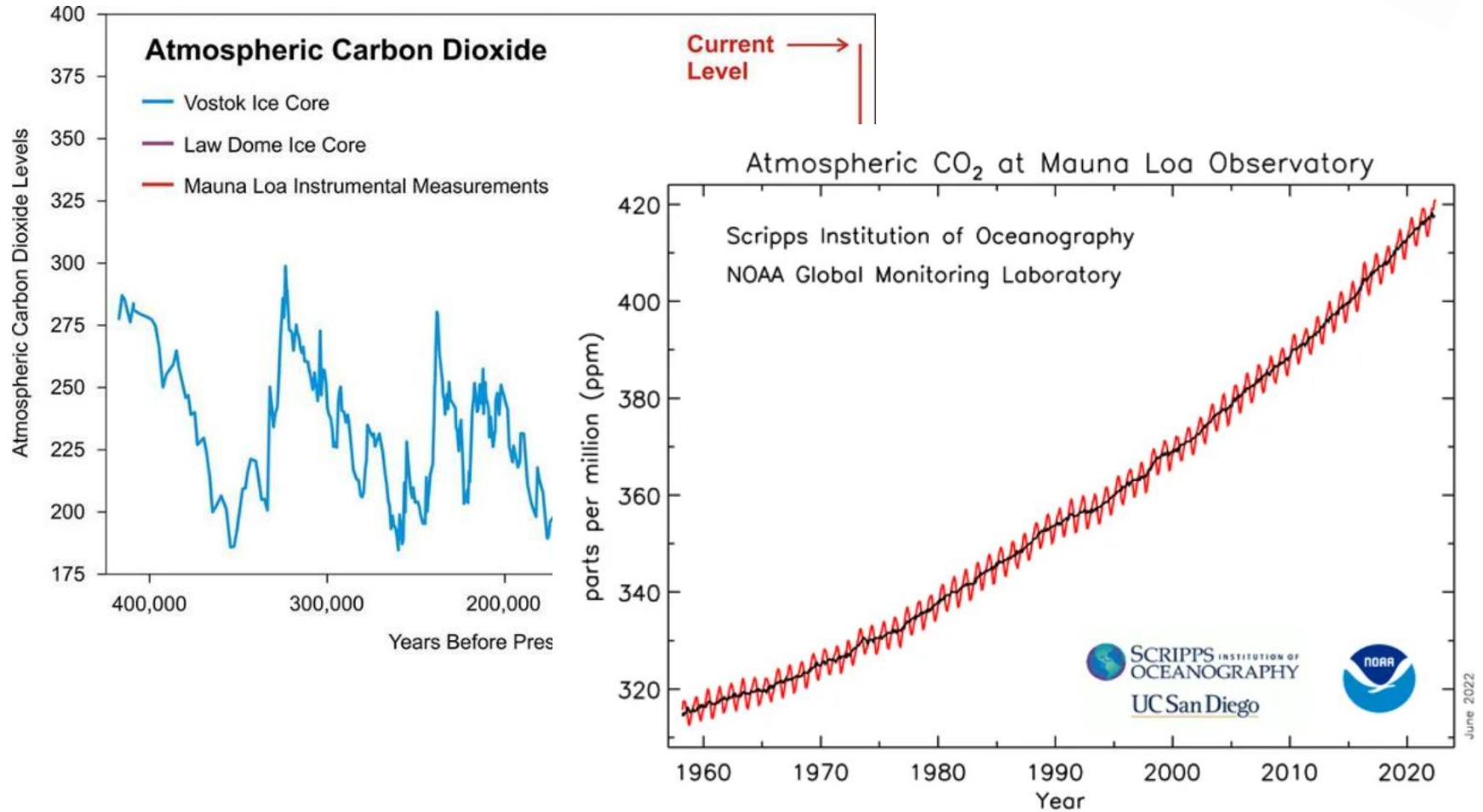
Agrivoltaico in vigneto

Prof. Paolo Sivilotti – 01 Dicembre 2025

Climate change



Qualcuno dice che non c'è



Qualcuno dice che non c'è



Meteo: ESTATE 2023, è la più CALDA di sempre, lo dicono i dati! L'ONU adesso lancia un v...

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Meteo



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I dati C registri

*Sta finendo
Sforeremo p
COP29*

07/11/2024

che ben 9 dei 10 anni più caldi

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[CLIMA, APRILE 2025 DA RECORD: È IL SECONDO PIÙ CALDO DI SEMPRE](#)

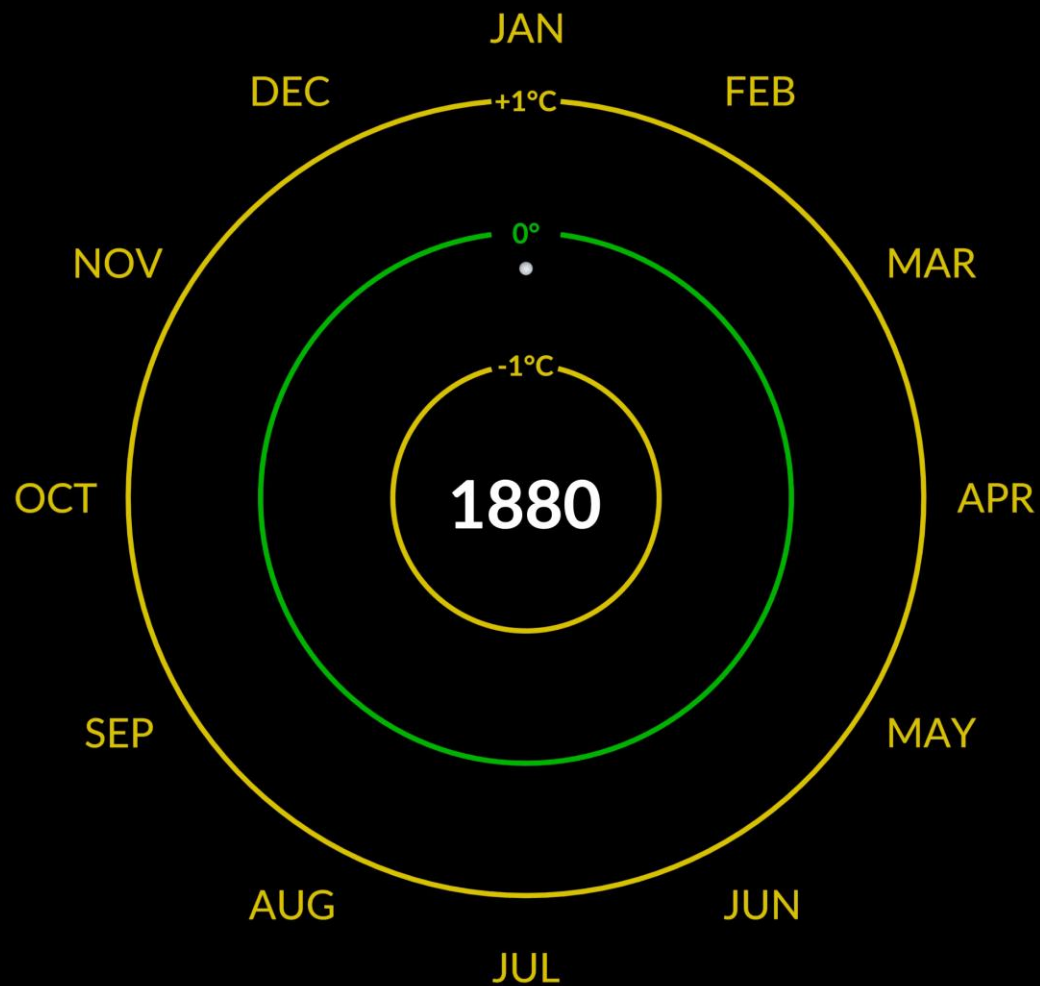
Clima, aprile 2025 da record: è il secondo più caldo di sempre



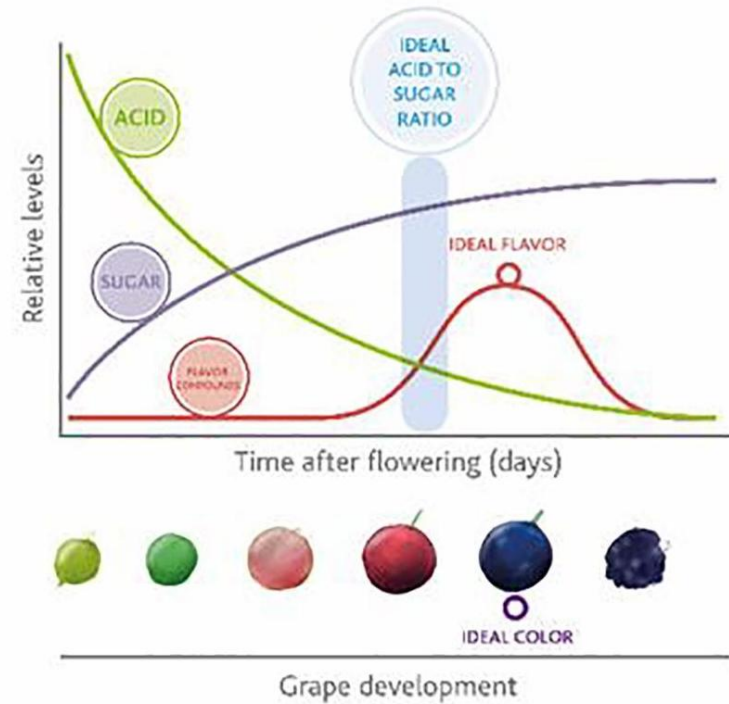
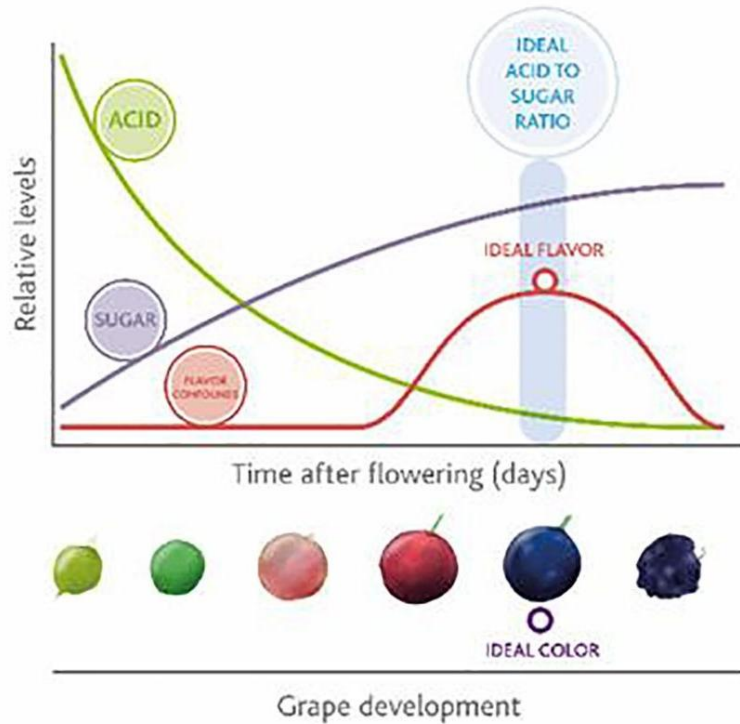
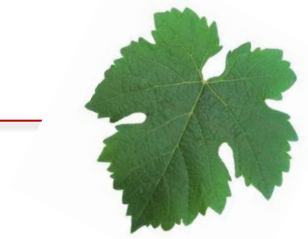
08 Maggio 2025 - di Redazione

La soglia di 1,5 °C di riscaldamento, la più ambiziosa dell'accordo di Parigi, sta per essere raggiunta in modo stabile

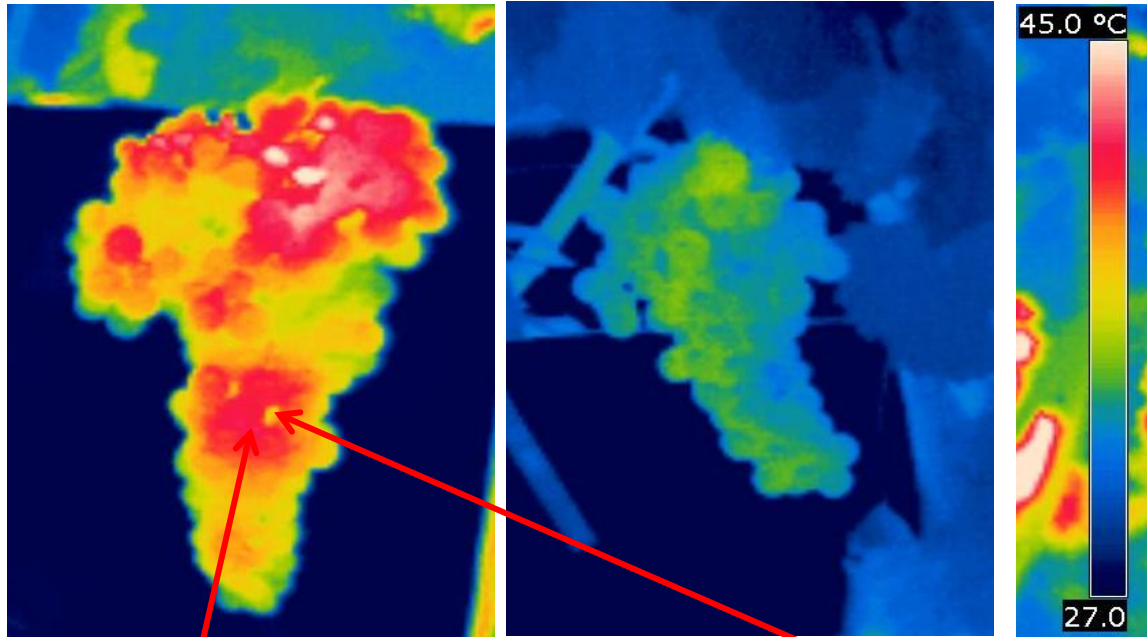




Maturazioni disaccoppiate



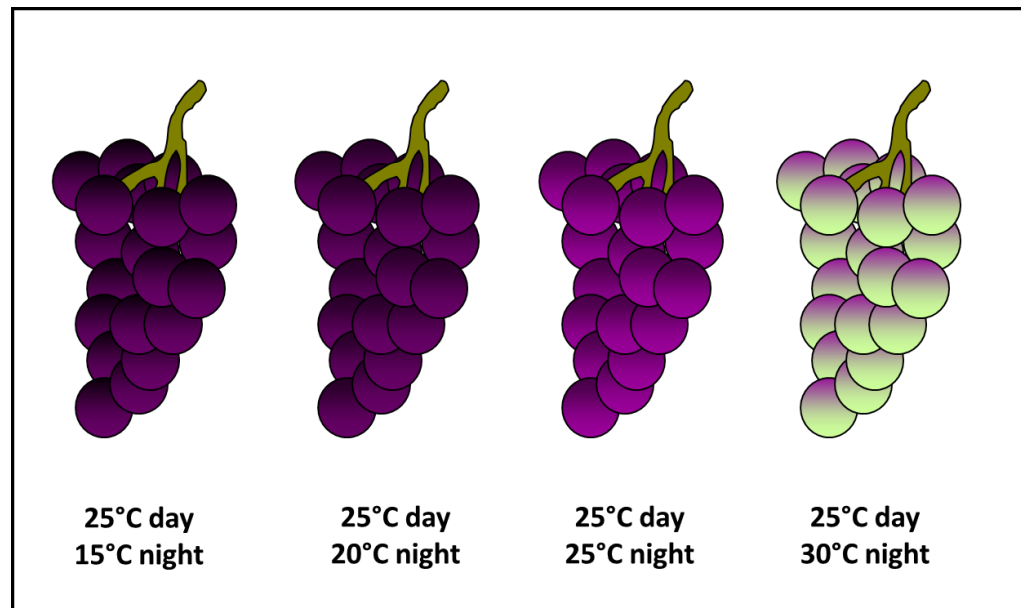
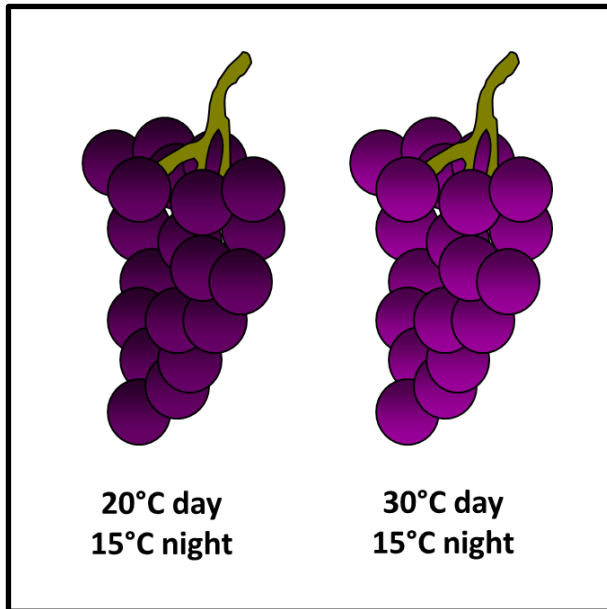
temperatura dei grappoli



$T^{\circ} > 35^{\circ}\text{C}$
riduzione di antociani,
acidità e aromi varietali



Temperatura dei grappoli e antociani

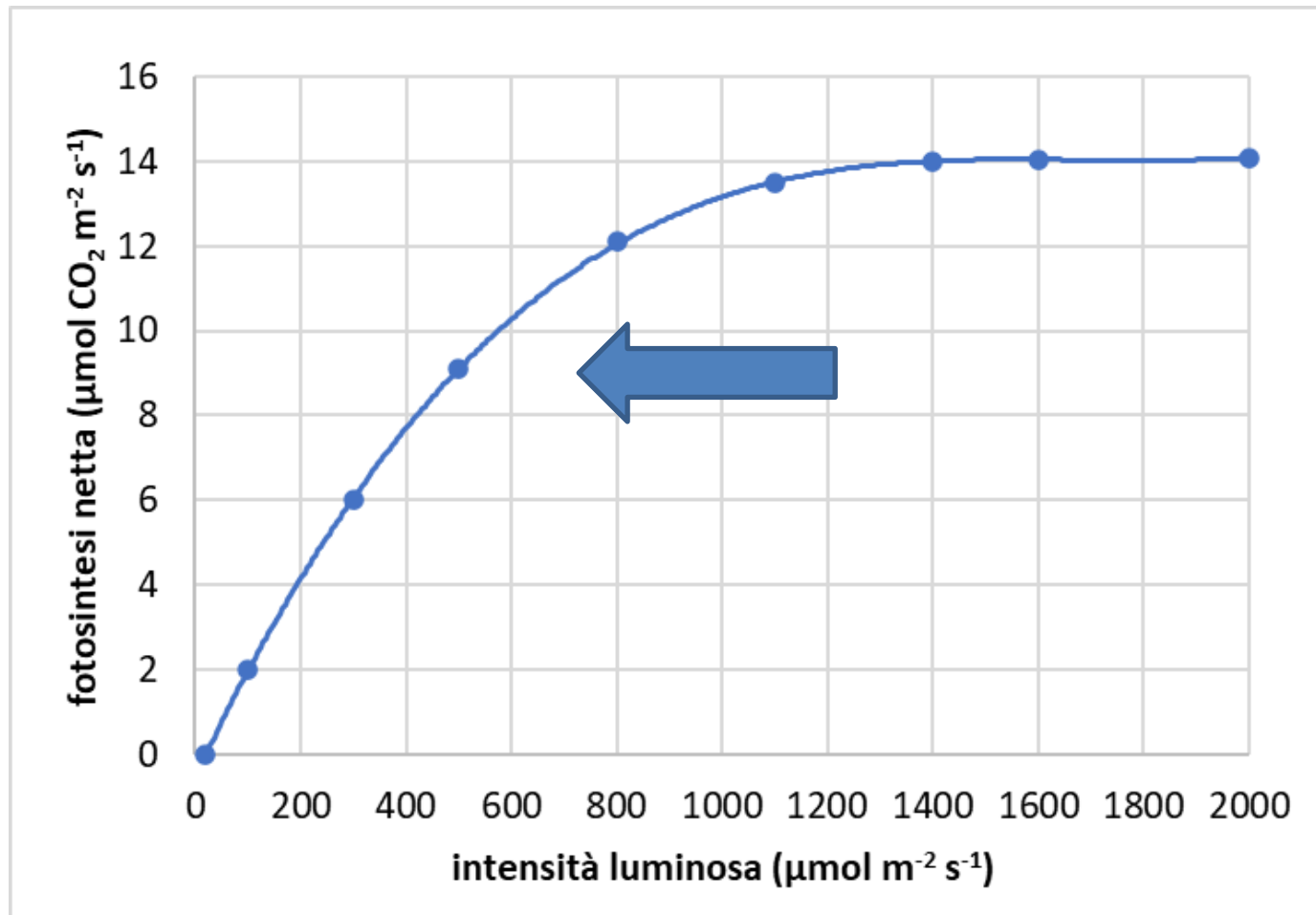


Kliewer W.M. 1970. *Journal of the American Society of Horticultural Sciences*, **95**:693-697

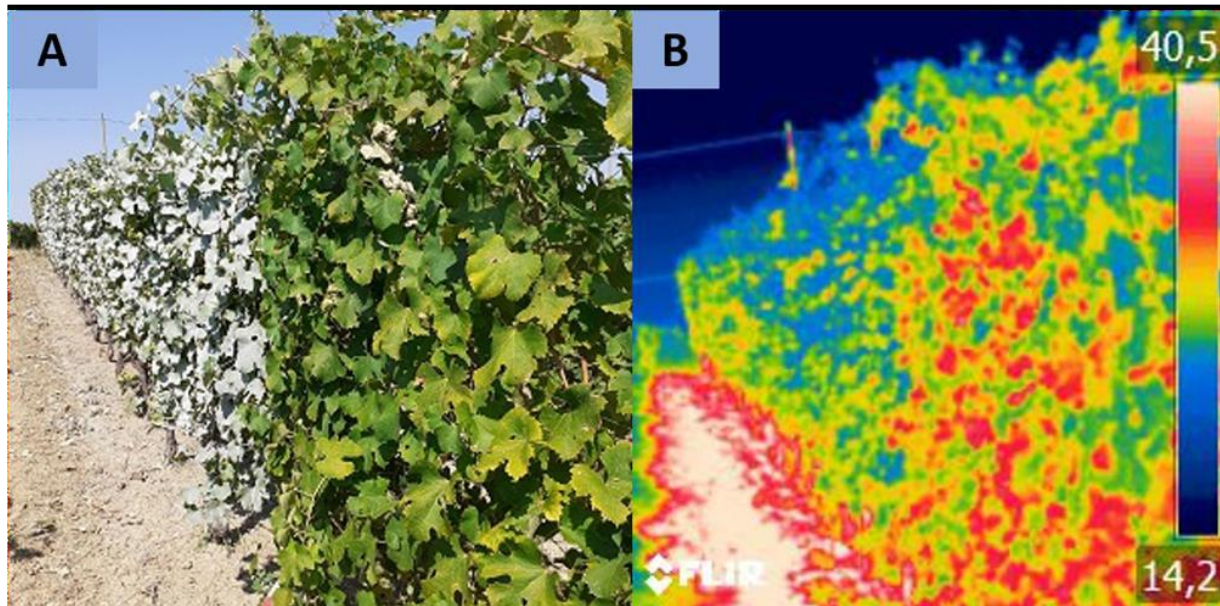
Winkler, A.J., Cook, J.A., Kliewer, W.M., Lider, L.A., 1974. *General Viticulture*. University of California Press, Berkeley, Los Angeles and London.



Fotosintesi e luce



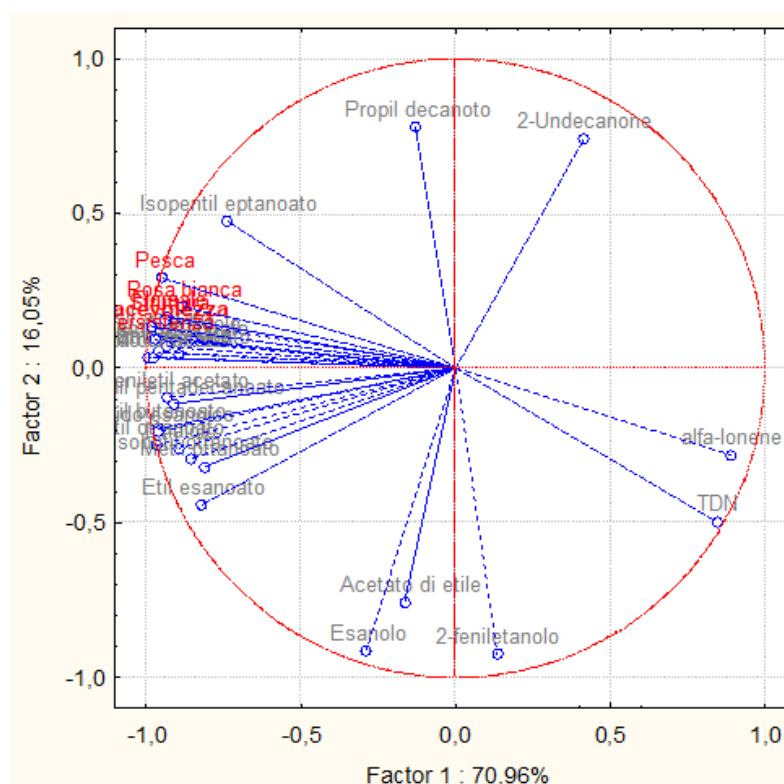
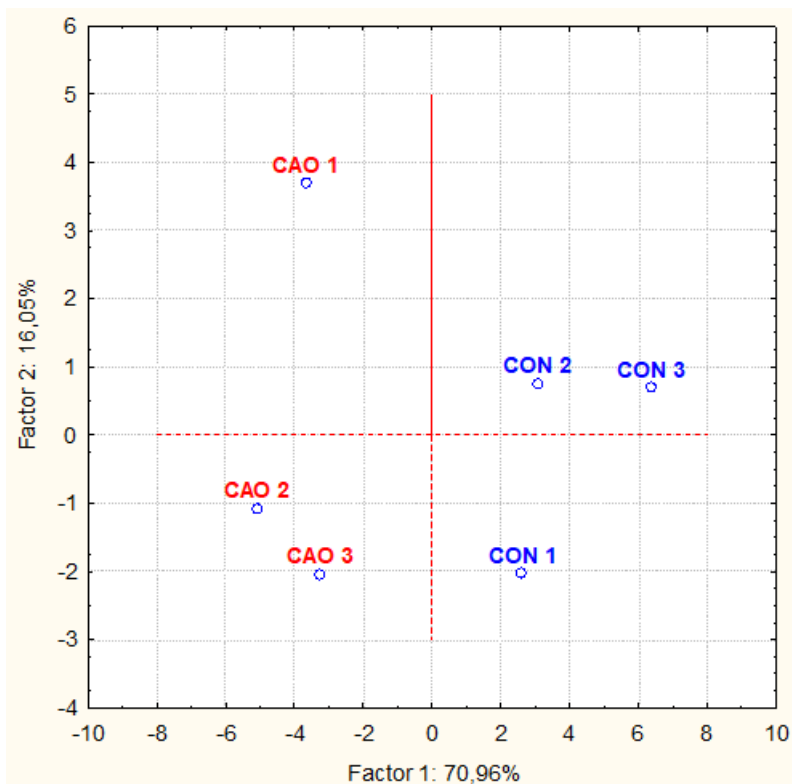
Caolino – Zeolite



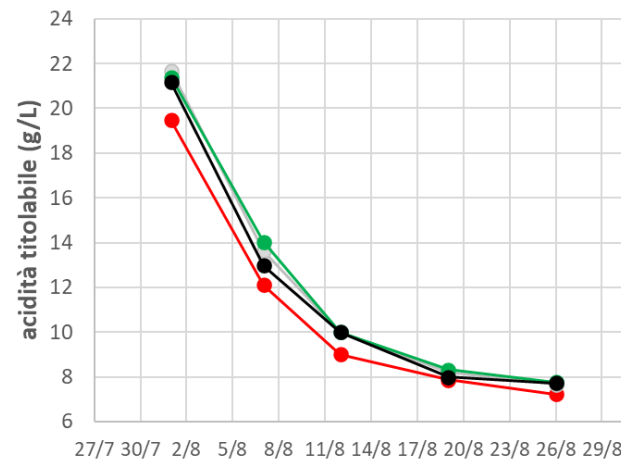
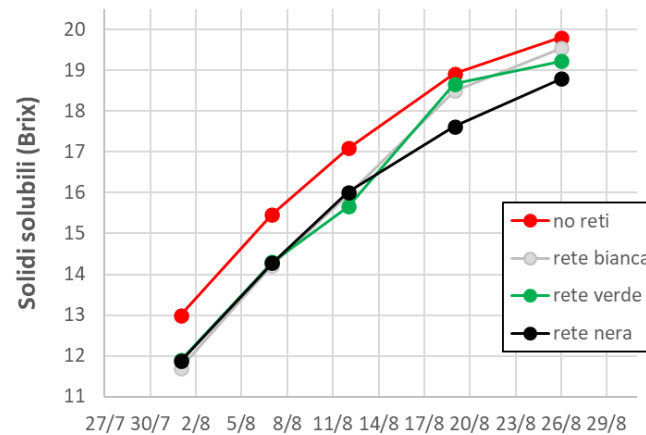
Traminer 2020-21



Caolino – scottature



Reti ombreggianti



MASUT DA RIVE

Agrivoltaico



ostacoli alla meccanizzazione



< evapotraspirazione < irrigazione



ripensare alla forma di allevamento



GDC ?





OPEN ACCESS

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Luigi Roselli,
Faculty of Agricultural Science, University of
Bari Aldo Moro, Italy

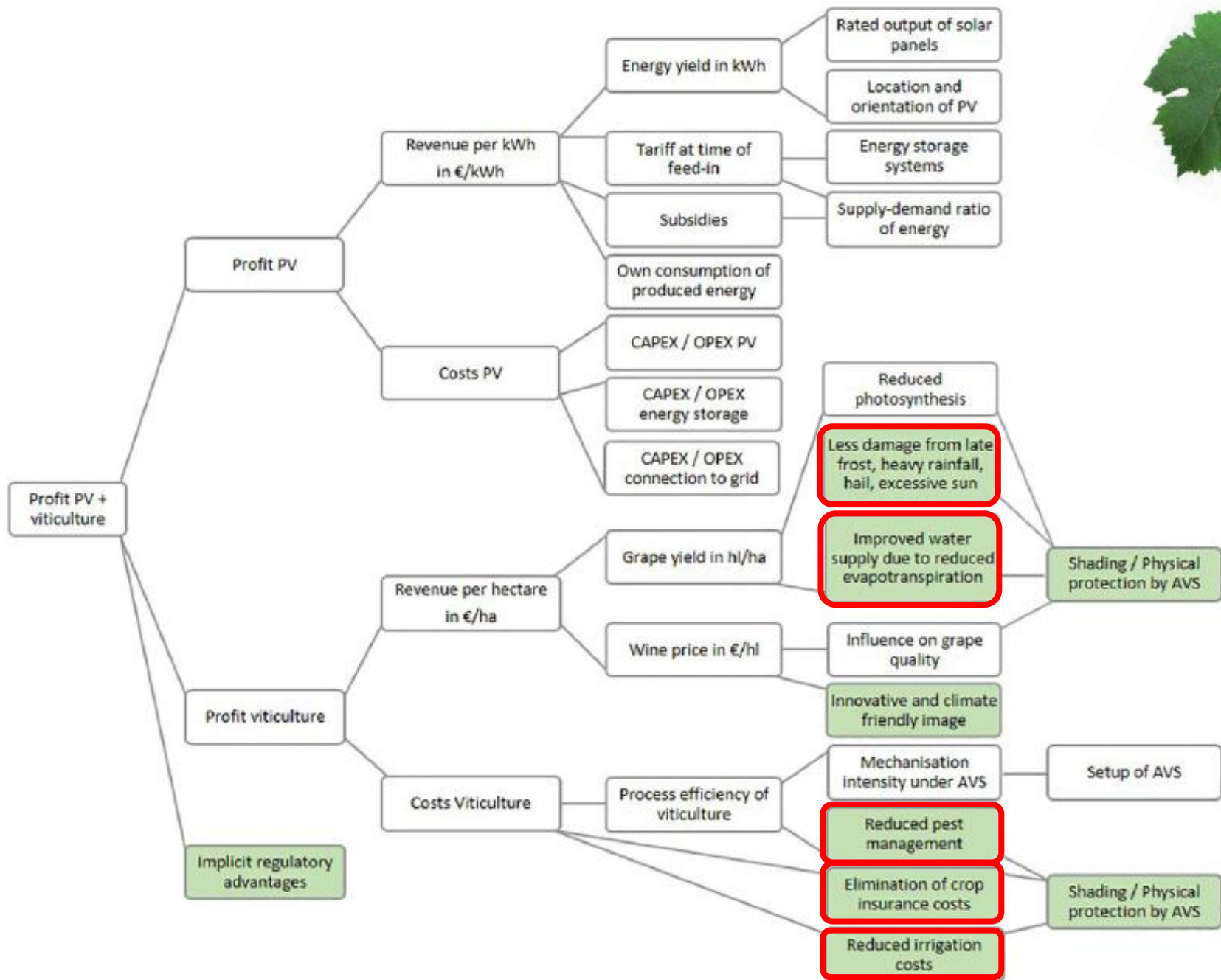
*CORRESPONDENCE

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 larissa.strub@ahs-gm.de

RECEIVED 30 July 2024

Assessing the economic performance of agrivoltaic systems in vineyards – framework development, simulated scenarios and directions for future research

Larissa Strub^{1*}, Maximilian Wittke², Max Trommsdorff^{2,3},
Manfred Stoll⁴, Claudia Kammann⁵ and Simone Loose¹

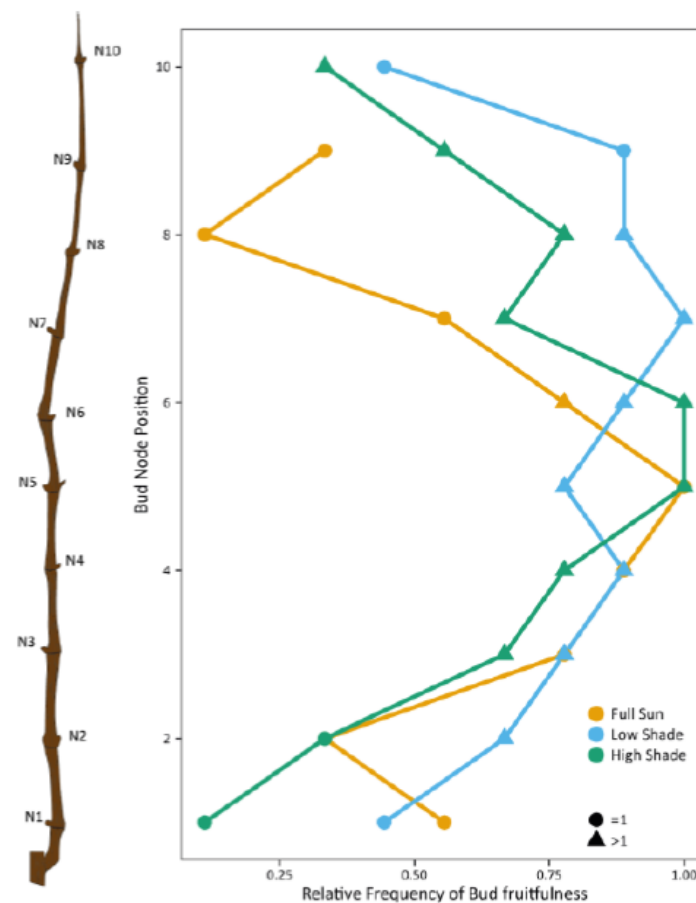




Article

Exploring the Grape Agrivoltaic System: Climate Modulation and Vine Benefits in the Puglia Region, Southeastern Italy

Andrea Magarelli , Andrea Mazzeo and Giuseppe Ferrara 





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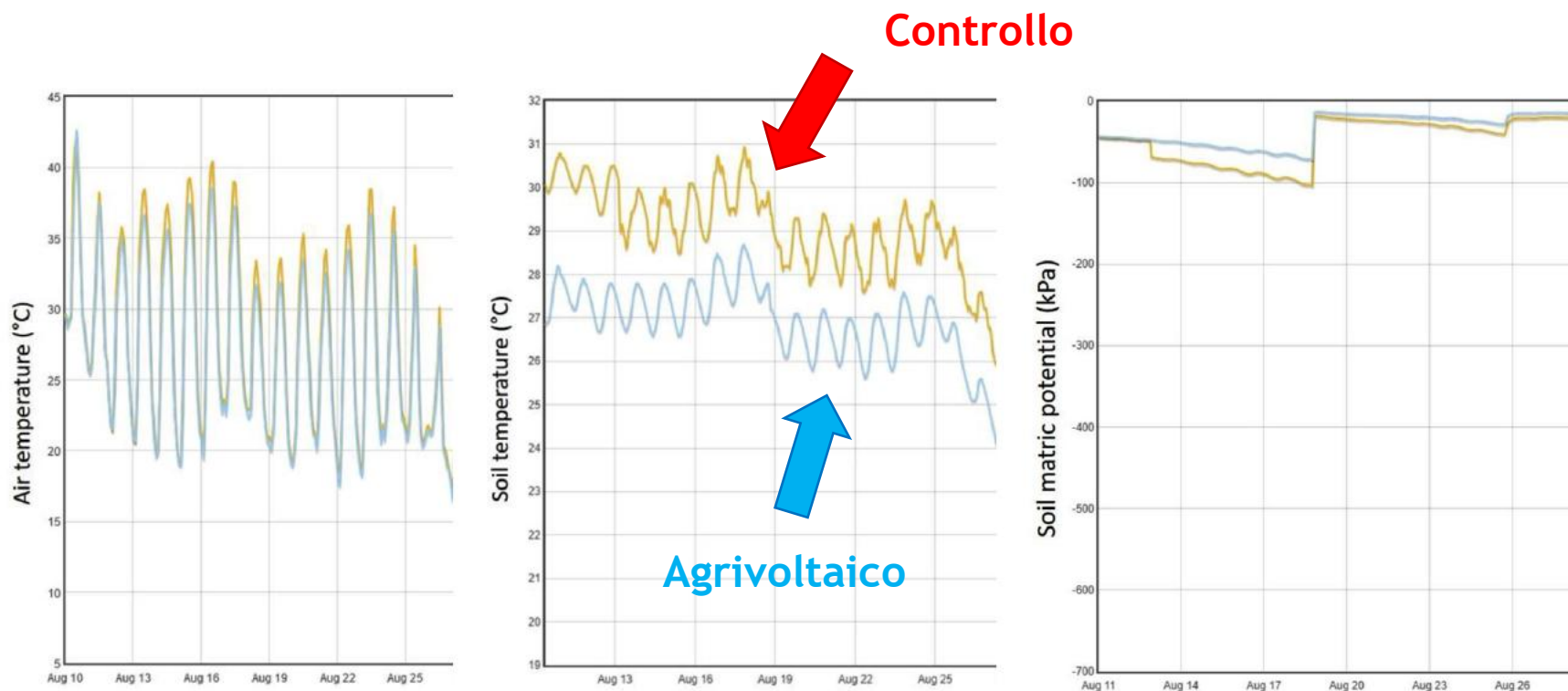


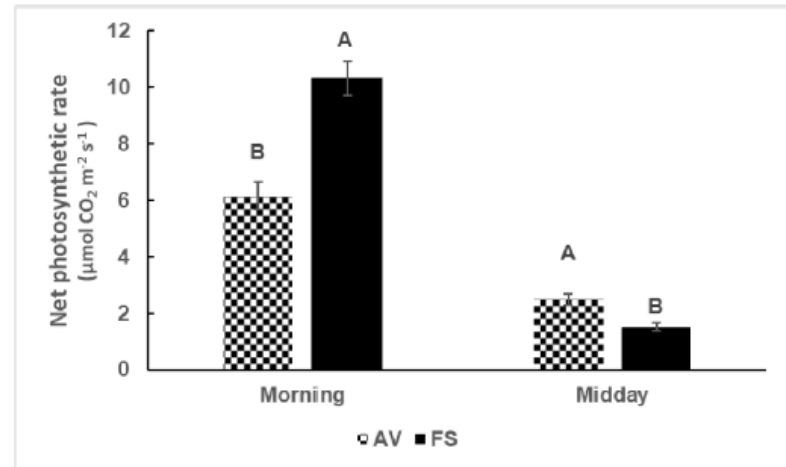
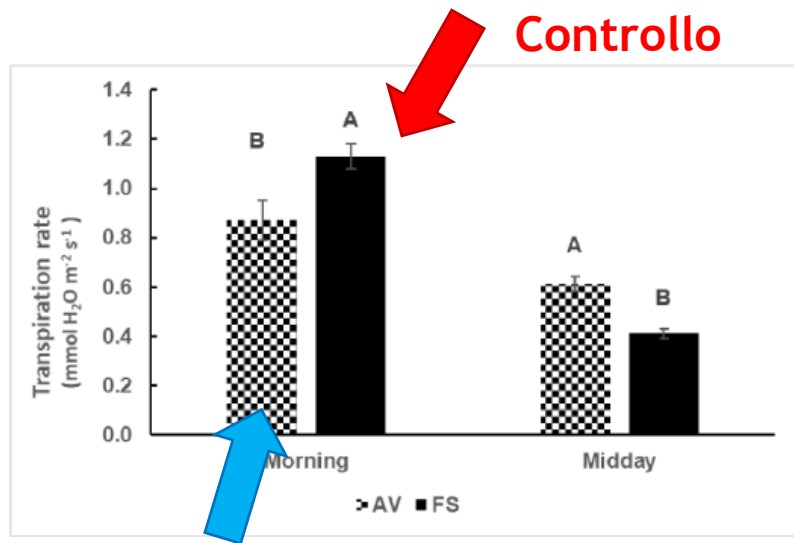
Effect of shading determined by photovoltaic panels installed above the vines on the performance of cv. Corvina (*Vitis vinifera* L.)

Giuseppe Ferrara^{a,*}, Maurizio Boselli^b, Marino Palasciano^a, Andrea Mazzeo^a

^a Department of Soil, Plant and Food Sciences, University of Bari "Aldo Moro", via G. Amendola 165/A, 70126, Bari, Italy

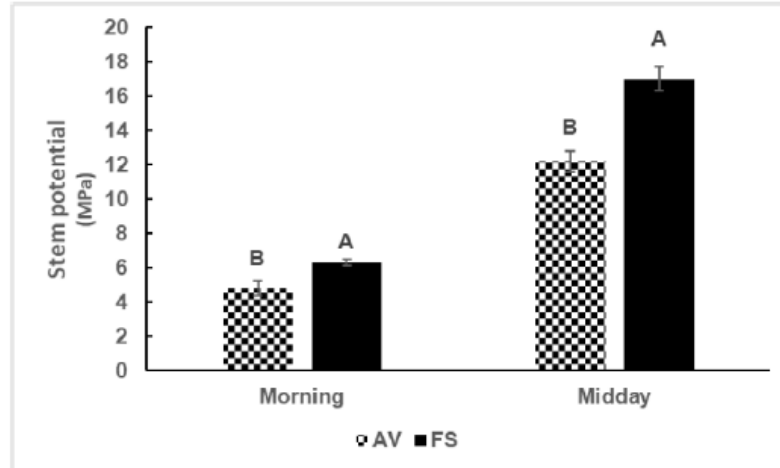
^b Former Professor, Department of Biotechnology of the University of Verona, Italy





Agrivoltaico

A



B

Parametri di produzione



	produzione	Fertilità gemme	Peso grappolo	Numero grappoli
2017				
AV	3,42	1,34	320	10,7
CON	3,79	1,28	370	10,2
2018				
AV	3,83	1,33	365	10,5
CON	4,46	1,55	388	11,5
2019				
AV	4,85	1,26	385	12,6
CON	5,66	1,38	410	13,8



Parametri qualitativi uve



	Solidi solubili (°Brix)	Acidità titolabile	Polifenoli totali (mg/L)	Antociani totali (mg/L)
2017				
AV	19,6	8,58	1471	305
CON	21,5	7,85	2124	542
2018				
AV	20,2	7,15	1223	334
CON	22,6	6,35	1364	362
2019				
AV	19,1	8,70	1254	348
CON	20,8	7,80	1432	322





Wiley
Australian Journal of Grape and Wine Research
Volume 2025, Article ID 8827979, 23 pages
<https://doi.org/10.1155/ajgrw/8827979>

AUSTRALIAN SOCIETY
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Research Article

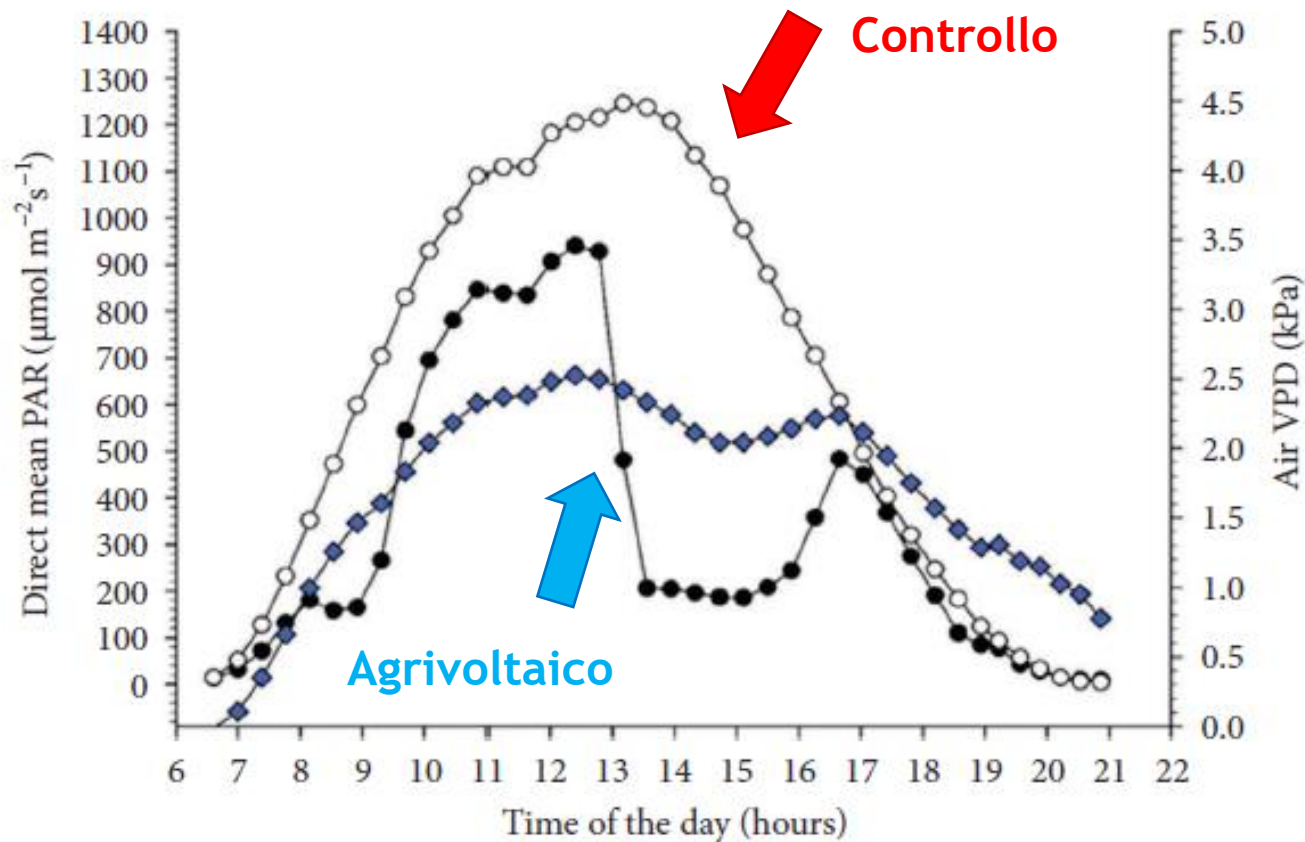
Vine Performance, Single-Leaf and Whole-Canopy Gas Exchange Under Agrivoltaics Cover in Malvasia di Candia Aromatica and Cabernet Sauvignon Grapevines

Paolo Bonini ¹, Mario Gabrielli ², Leonardo D'Intino ², Ilaria Filippetti ³,
Gianluca Allegro ³, Daniela Sangiorgio ³, Eugenio Magnanini,¹ and Stefano Poni ¹

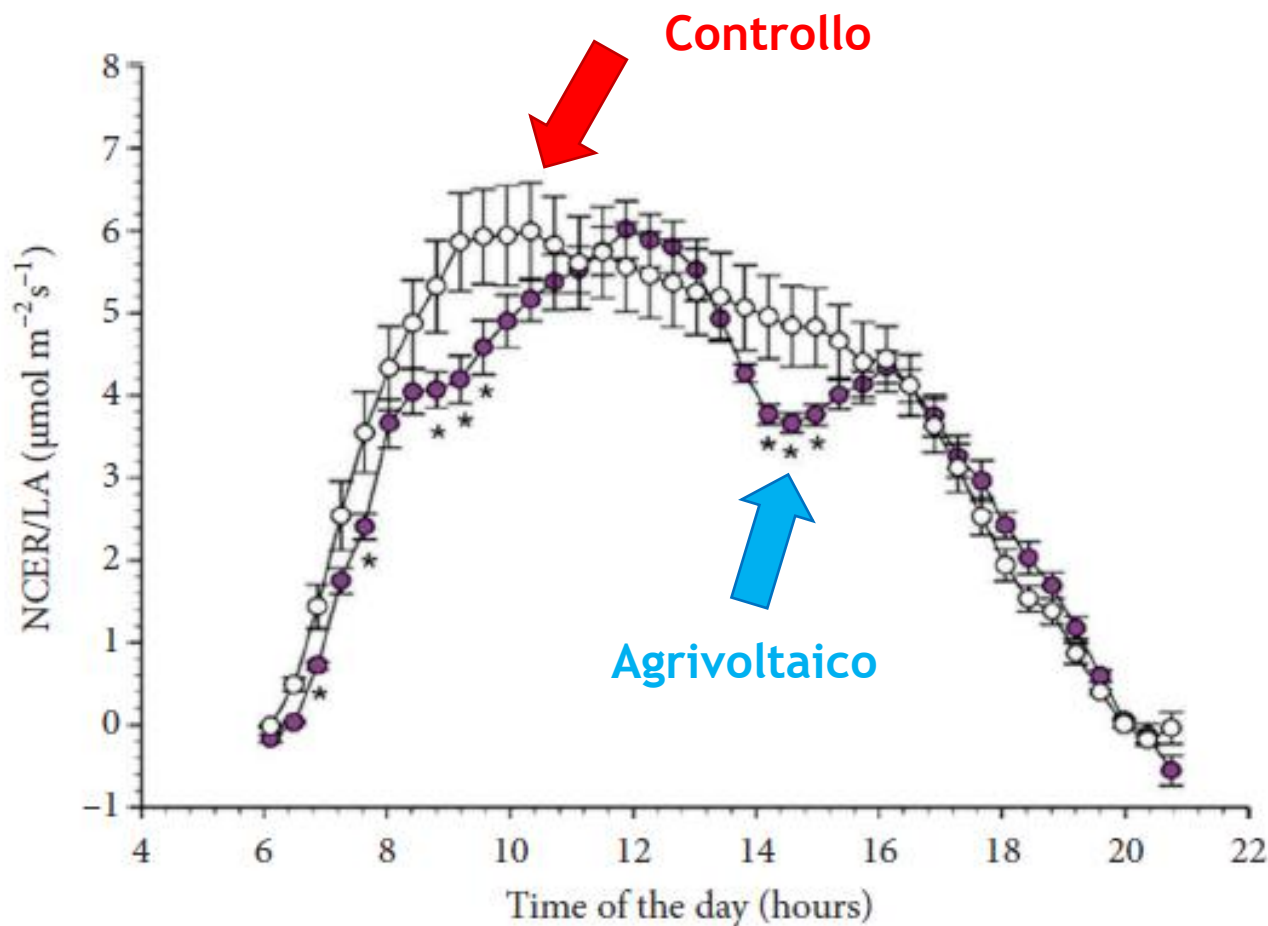
Intensità luminosa



- 47 % intensità luminosa

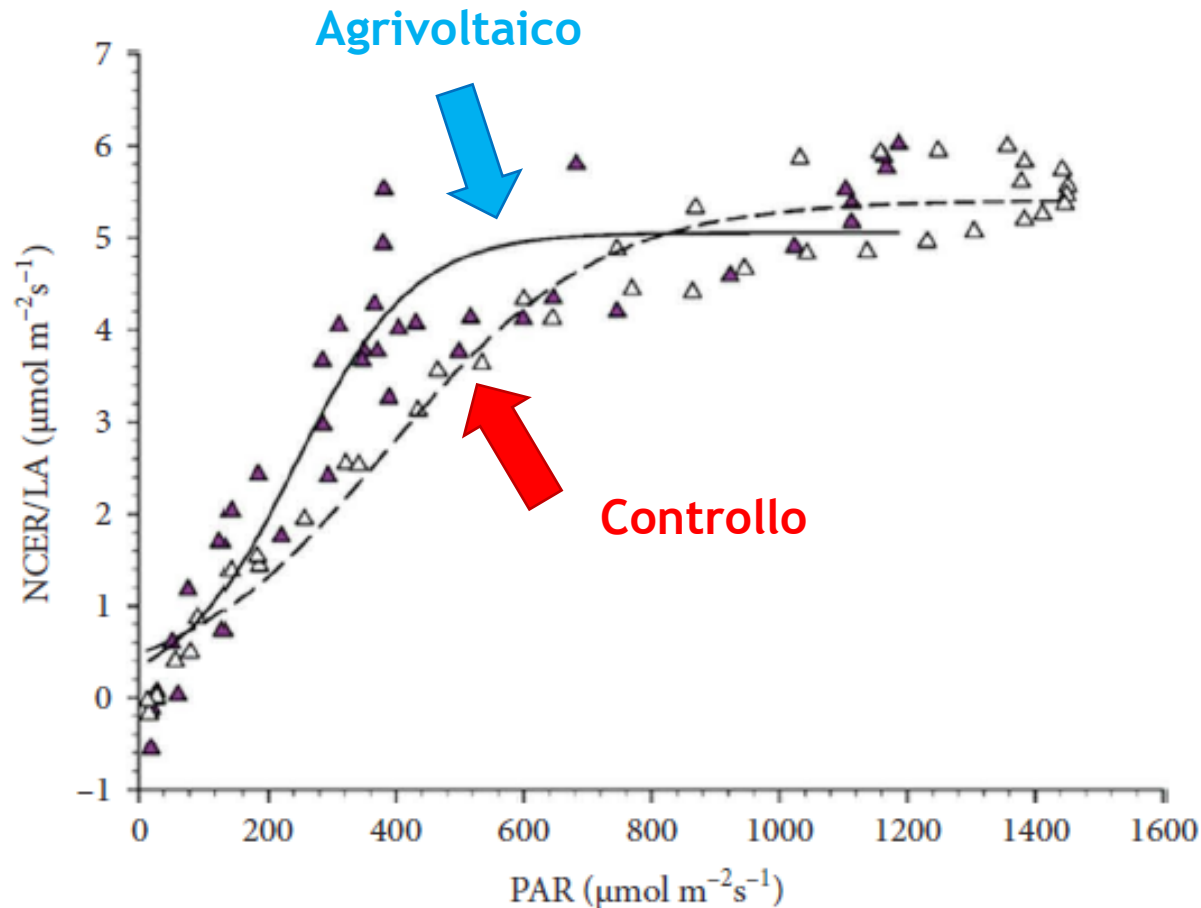


Fotosintesi totale pianta



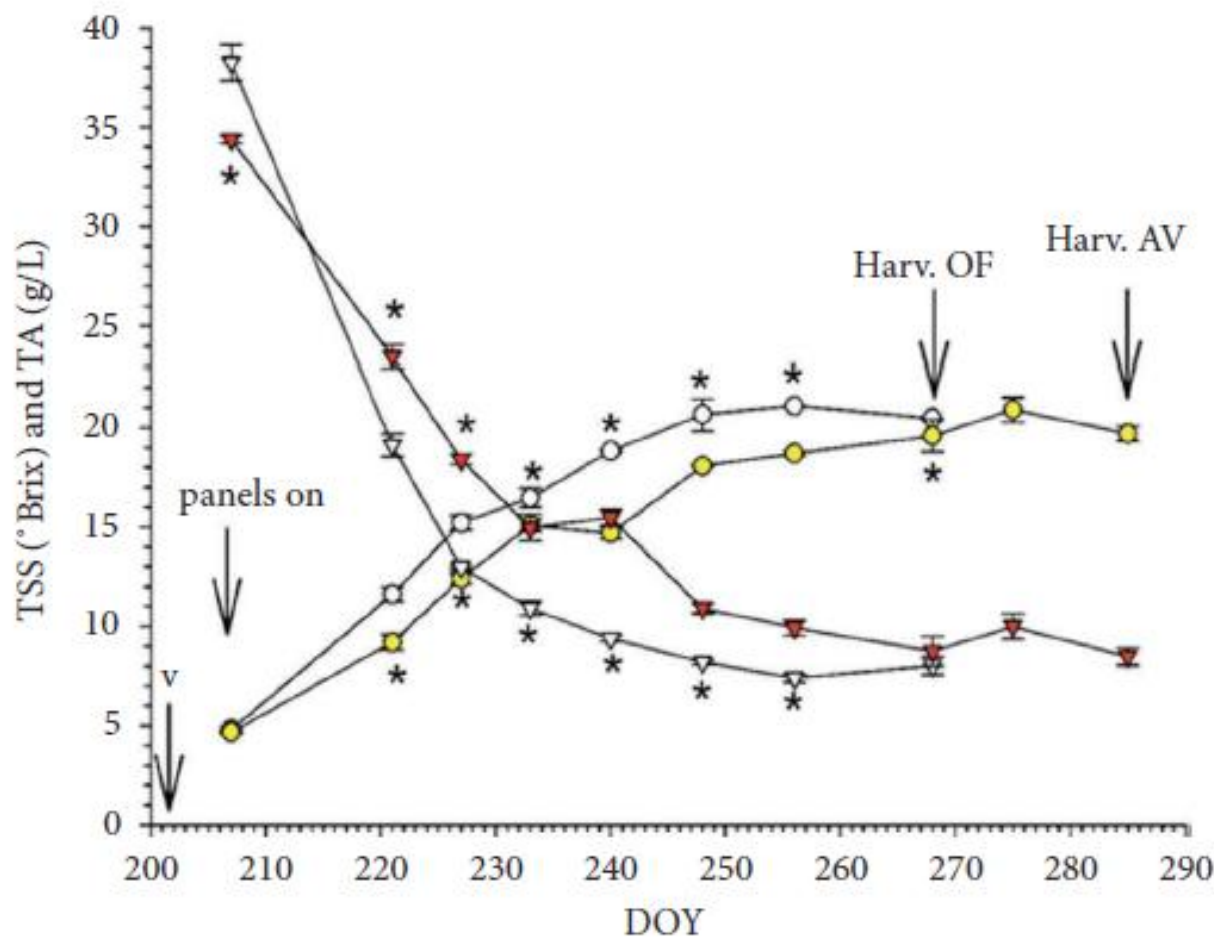
Bonini P., Gabrielli M., D'Intino L., Filippetti I., Allegro G., Sangiorgio D., Magnanini E., Poni S. (2025). *Aust. J. Grape Wine Res.* 2025, 8827979

Fotosintesi totale pianta



Bonini P., Gabrielli M., D'Intino L., Filippetti I., Allegro G., Sangiorgio D., Magnanini E., Poni S. (2025). *Aust. J. Grape Wine Res.* 2025, 8827979

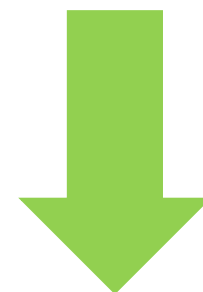
Curve di maturazione



Bonini P., Gabrielli M., D'Intino L., Filippetti I., Allegro G., Sangiorgio D., Magnanini E., Poni S. (2025). *Aust. J. Grape Wine Res.* 2025, 8827979

L⁻¹) of free-volatile and bound aromatic compounds of Malvasia di Candia aromatica wines.

Free-volatile compounds	Chemical class	MC-OF	MC-AV
Ethyl butyrate	Ester	44.91	44.18
4-Methyl-1-pentanol	Higher alcohols	10.89	5.36
Ethyl 2-methylbutyrate	Ester	0.56	0.39
Ethyl isovalerate	Ester	2.95	2.51
3-Methyl-1-pentanol	Higher alcohol	23.83	17.92
1-Hexanol	C ₆ alcohol	511.61	518.87
Isoamyl acetate	Ester	1558.45	657.19
1-Heptanol	Higher alcohol	9.07	9.95
3-Methylpentyl acetate	Ester	0.91	0.32
Ethyl hexanoate	Ester	356.60	223.25
Hexyl acetate	Ester	38.83	4.66
D-Limonene	Monoterpene	1.91	1.59
Ethyl 2-hydroxy-4-methylpentanoate	Ester	31.95	24.08
Isoamyl lactate	Ester	12.49	7.95
trans-Linalool oxide (furanoid)	Monoterpene	8.36	5.95
1-Octanol. 2,7-dimethyl-	Monoterpene	8.53	9.02
cis-Linalyl oxide (furanoid)	Monoterpene	3.61	1.19
Hotrienol	Monoterpene	5.59	3.94
Linalool	Monoterpene	152.00	90.89
Diethyl succinate	Ester	65.66	49.97
trans-linalool oxide (pyranoid)	Monoterpene	38.83	18.96
Ethyl octanoate	Ester	481.73	302.09
2,6-Dimethyl-3,7-octadiene-2,6-diol	Monoterpene	202.36	168.67
α-Terpineol	Monoterpene	42.52	26.20
2,4-Dimethylbenzaldehyde	Aldehyde	11.93	13.53
Citronellol	Monoterpene	17.89	27.39
trans-3-Hexenyl butyrate	Ester	9.29	3.03
Phenethyl acetate	Ester	447.08	169.16
Ethyl 3-hydroxyoctanoate	Ester	4.48	4.73
2,6-Dimethyl 2,6-octadiene	Monoterpene	2.09	1.73
β-Damascenone	Norisoprenoids	9.87	8.73
Ethyl decanoate	Ester	101.94	47.16
Ethyl phenyllactate	Ester	105.67	81.87
Ethyl dodecanoate	Ester	15.66	3.86
δ-Decalactone	Lactones	2.53	2.43
Nerolidol	Monoterpene	6.61	8.63



Riassumendo



luce e quindi fotosintesi



Produzione (fertilità?? Allegagione???)



Accumulo di zuccheri



Degradazione acido malico



Polifenoli e antociani



Composti aromatici

Grazie per l'attenzione

