SUPPLEMENTARY DATA
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https://doi.org/10.20870/oeno-one.2022.56.4.4898

Supplemental Material

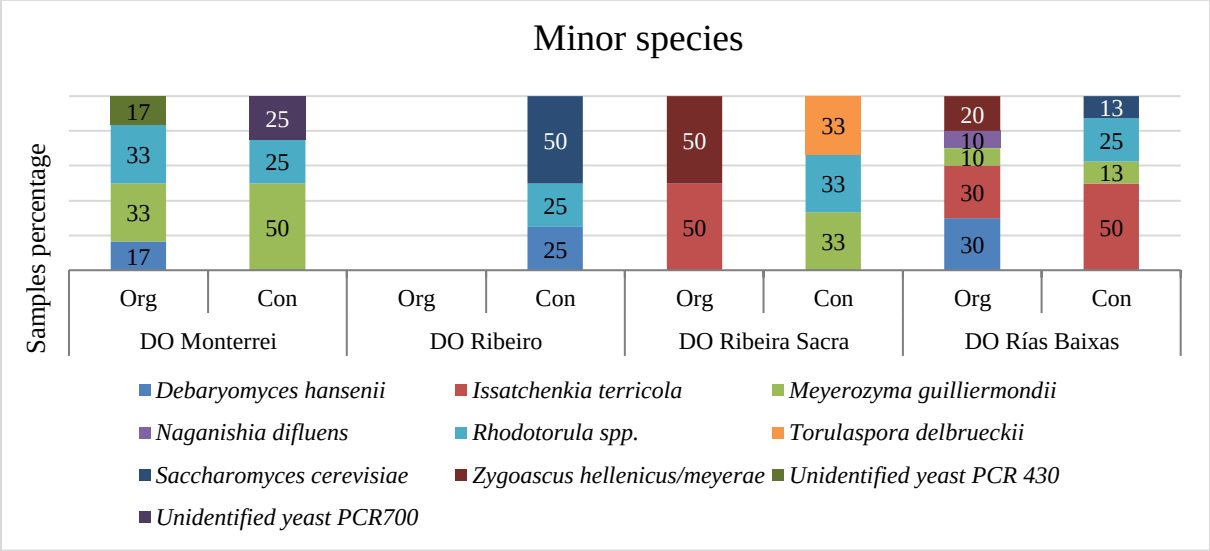


FIGURE S1. Frequency of the occurrence of minor yeast species in samples of grape musts from different Denominations of Origin (DO) for each farming systems. Org- organic, Con- conventional.

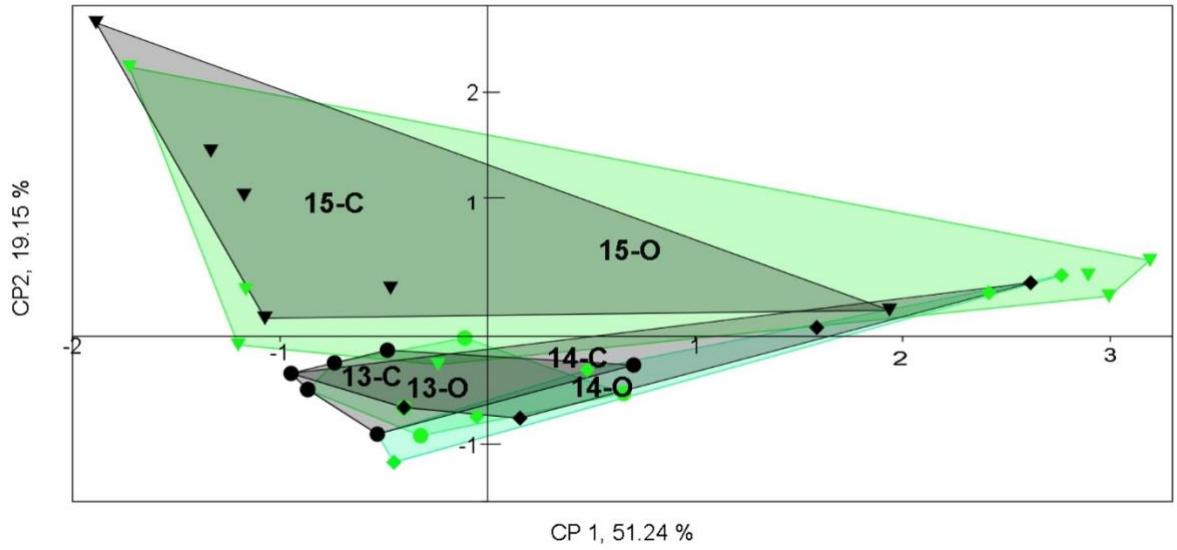


FIGURE S2. Principal component analysis (PCA) presenting the variation of the 9 main yeast species richness of organic (O) and conventional (C) musts in different vintages. Conventional samples are coloured in black and organic samples in green. Vintages are indicated as circle: 2013 (13), diamond: 2014 (14) or triangle: 2015 (15).

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Table S1. Presence of yeast species in musts samples under organic (Org) and conventional (Con) production from different Denominations of Origin (DO), grapevine varieties and vintages. DO: Mo-Monterrei, Ri-Ribeiro, RS-Ribeira Sacra, RB-Rías Baixas; grapevine cultivars: Trx-Treixadura, Men-Mencía, Bra-Brancellao and Alb-Albariño.

DO-Grapevine variety	Mo-Trx						Mo-Men					Ri-Trx						Ri-Bra						RS-Men						RB-Alb						RB-Trx					
Farming system	Org			Con			Org			Con		Org			Con			Org			Con			Org			Con			Org			Con			Org			Con		
Vintage*	13	14	15	13	14	15	13	14	15	13	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15
Aureobasidium proteae			+								+						+			+									+											
Aureobasidium pullulans	+		+	+	+	+	+		+	+	+			+			+	+		+	+		+						+			+		+			+			
Candida apicola									+																+	+	+									+	+			+
Candida bentonensis																																+									
Candida californica																								+	+	+		+				+					+	+		+	+
Candida oleophila																															+	+					+		+		
Candida pyralidae																														+											
Candida cf. sorbosivorans																																+									
Starmerella bacillaris																									+	+		+	+		+	+					+	+	+	+	+
Cryptococcus carnescens																	+																									
Cryptococcus laurentii																	+			+			+																			
Cryptococcus stepposus																							+																			
Cryptococcus sp. (terrestris)						+														+																					
Cryptococcus victoriae														+						+																					
Cystofilobasidium macerans						+											+																									
Debaryomyces hansenii							+																+							+		+						+			
Hanseniaspora uvarum	+	+	+			+	+	+	+	+	+	+	+		+	+		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Issatchenkia terricola																									+	+				+	+			+	+			+		+	+
Lachancea thermotolerans	+	+	+	+	+		+	+	+	+			+	+	+				+		+																				
Metschnikowia pulcherrima	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Metschnikowia af. fructicola								+																+									+		+		+				
Meyerozyma guilliermondii	+	+		+						+																	+					+			+						
Naganishia diffluens																															+										
Pichia anomala																			+						+			+													
Pichia Kluyveri																									+	+	+	+				+		+			+	+		+	+

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Pichia kudriavzevii																																				+				
Pichia membranifaciens																										+		+												
Pichia sporocuriosa																										+														
Rhodotorula graminis						+			+														+										+		+					
Rhodotorula mucilaginosa								+																																
Rhodotorula nothofagi																													+											
Torulaspora delbrueckii																													+											
Saccharomyces cerevisiae																+						+																	+	
Zygoascus hellenicus/meyerae																									+	+						+					+			
Zygosaccharomyces bailii																																					+			
Zygosaccharomyces bisporus																									+			+								+				
Zygosaccharomyces (uncultured)																								+	+	+		+	+			+					+			+
Unidentified yeast PCR 430		+																																						
Unidentified yeast PCR700					+																																			

*the numbers 13, 14 and 15 indicate the vintages 2013, 2014 and 2015, respectively.

Table S2. Comparison of yeast population (species richness) from different production systems and DO by analysis of similarity/distance measure (PERMANOVA) in musts of 2013, 2014 and 2015.

General parameters								
PERMANOVA	**Permutation N**	**Total sum of squares**		**Within-group sum of squares**		**F**	**p (same)**	
	9999	131.4		89.1		2.236	**0.0001**	
Significance, p-values in the pairwise								
DO-Farming system	**Mo-Org**	**Mo-Con**	**Ri-Org**	**Ri-Con**	**RS-Org**	**RS-Con**	**RB-Org**	**RB-Con**
Mo-Org		0.3799	0.1765	0.1112	**0.0131**	**0.0152**	**0.0018**	**0.0027**
Mo-Con	1.0620		0.2903	0.3188	**0.0156**	**0.0189**	**0.0068**	**0.0231**
Ri-Org	1.3730	1.1640		0.6483	**0.0135**	**0.0248**	**0.0016**	**0.0115**
Ri-Con	1.6920	1.1650	0.8462		**0.0130**	**0.0346**	**0.0030**	**0.0460**
RS-Org	**5.7180**	**5.2500**	**5.0000**	**4.0590**		0.7032	0.3775	0.1068
RS-Con	**2.6960**	**2.2530**	**2.1520**	1.9060	0.9130		0.5131	0.4492
RB-Org	**3.3980**	**3.1890**	**2.9560**	**2.6080**	1.0160	0.8974		0.4592
RB-Con	**3.0290**	**2.4150**	**2.3720**	1.9700	1.8890	0.9807	0.9259	

Statistical F-values are shown below the diagonal and the level of significance (p-values) is shown above (significant differences at $p < 0.05$ and higher F are shown in bold). Mo, Monterrei; Ri, Ribeiro; RS, Ribeira Sacra; RB, Rías Baixas; Org, organic; Con, conventional.