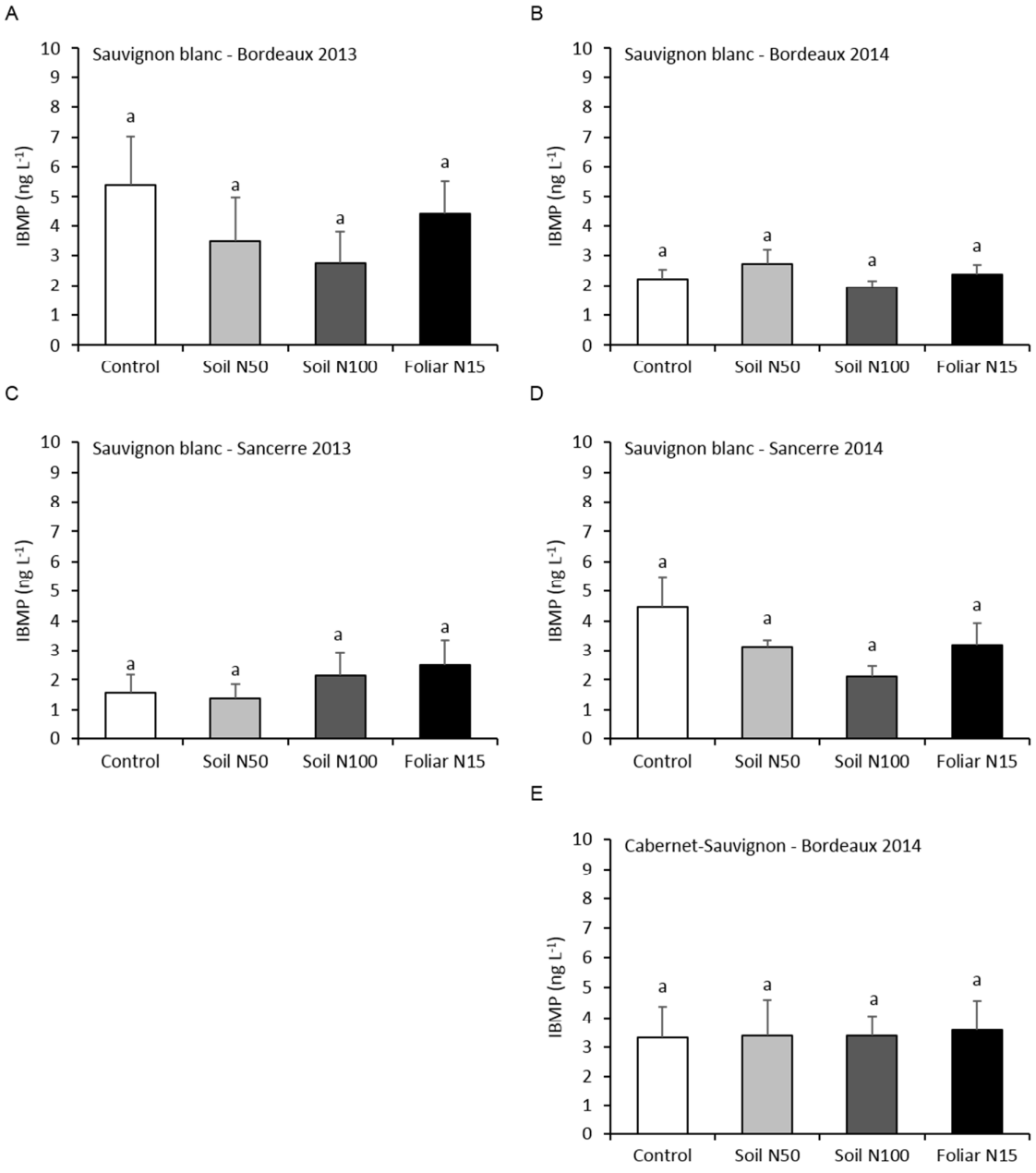
ASSOCIATED CONTENT

Vine Nitrogen Status Does Not Have a Direct Impact on 2-methoxy-3-isobutylpyrazine in Grape Berries and Wines

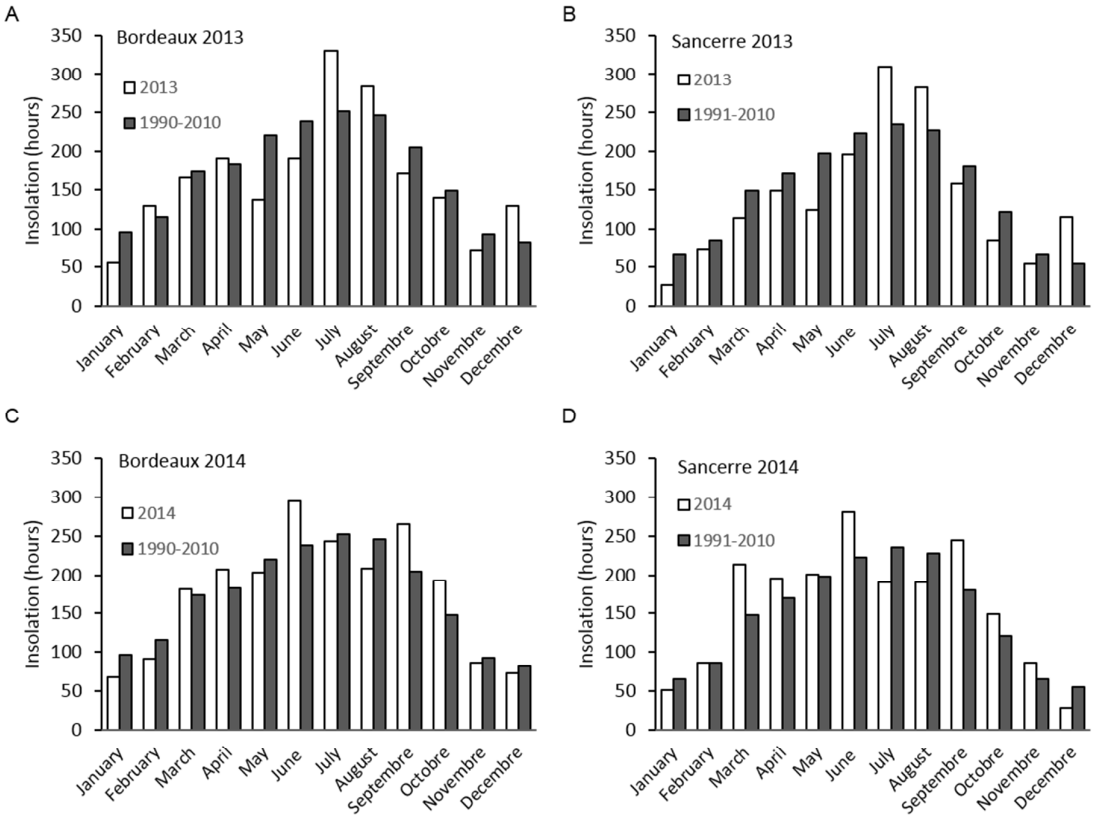
Pierre Helwi[1,2,3], Aude Habran[1,3], Sabine Guillaumie[1,3], Cécile Thibon[4,5], Ghislaine Hilbert[1,3], Eric Gomes[1,3], Serge Delrot[1,3], Philippe Darriet[4,5], Cornelis van Leeuwen[*,2]

[1]Univ. de Bordeaux, Institut des Sciences de la Vigne et du Vin (ISVV), Ecophysiology and Functional Genomics of the Vine (EGFV), UMR 1287, 33140 Villenave d'Ornon, France. [2]Bordeaux Sciences Agro, Institut des Sciences de la Vigne et du Vin (ISVV), Ecophysiology and Functional Genomics of the Vine (EGFV), UMR 1287, 33140 Villenave d'Ornon, France. [3]INRA, Institut des Sciences de la Vigne et du Vin (ISVV), Ecophysiology and Functional Genomics of the Vine (EGFV), UMR 1287, 33140 Villenave d'Ornon, France. [4]Univ. de Bordeaux, Institut des Sciences de la Vigne et du Vin (ISVV), Unité de recherche Œnologie, EA4577, 33140 Villenave d'Ornon, France. [5]INRA, Institut des Sciences de la Vigne et du Vin (ISVV), USC 1366 Œnologie, 33140 Villenave d'Ornon, France.

*(C.v.L) Phone: +33 05 57 35 07 55. Fax: +33 05 57 35 07 59. E-mail: vanleeuwen@agro-bordeaux.fr.



Supplementary figure 1. Effects of nitrogen supply on the level of IBMP (ng L^{-1}) in wines. Each point is the mean of eight replicates. Statistical significance was determined by one-way ANOVA followed by Duncan's multiple range test ($P < 0.05$). Error bars indicate SE. Different letters indicate significant differences.



Supplementary figure 2. Insolation in Bordeaux (A-B) and Sancerre (C-D) in 2013 and 2014. Data were registered in hours (33) for Bordeaux vineyard and in Nevers (58) for Sancerre vineyard. Insolation was compared to values from 1990-2010 for Bordeaux and to values from 1991-2010 for Sancerre.