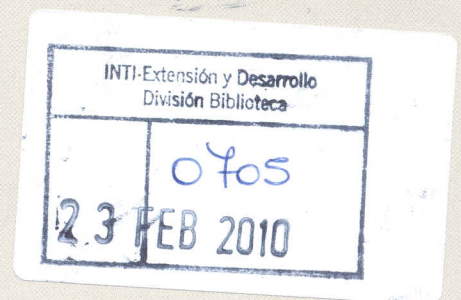
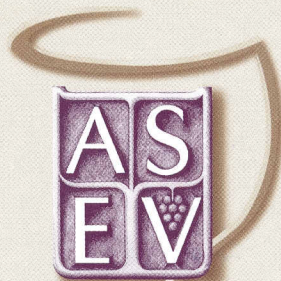


Villa
Regina
002

AMERICAN JOURNAL
of
ENOLOGY AND VITICULTURE

VOLUME 60 2009 NUMBER 4



PUBLISHED BY THE AMERICAN SOCIETY FOR ENOLOGY AND VITICULTURE

Since 1950

AMERICAN JOURNAL
of
ENOLOGY AND VITICULTURE

VOLUME 60 **2009** NUMBER 4

CONTENTS

- The Flowering Process of *Vitis vinifera*: A Review
M.C. Vasconcelos, M. Greven, C.S. Winefield, M.C.T. Trought, and V. Raw 411 - 434
- Characterization of the Aroma of Red Frontenac Table Wines by Descriptive Analysis
A.K. Mansfield and Z.M. Vickers 435 - 441
- Influence of Tannin Concentration, Storage Temperature, and Time on Chemical and Sensory Properties of Cabernet Sauvignon and Merlot Wines
R.R. Villamor, J.F. Harbertson, and C.F. Ross 442 - 449
- Chemical and Sensory Effects of Saignée, Water Addition, and Extended Maceration on High Brix Must
J.F. Harbertson, M.S. Mireles, E.D. Harwood, K.M. Weller, and C.F. Ross 450 - 460
- Cumulative Responses of Semillon Grapevines to Late Season Perturbation of Carbohydrate Reserve Status
J.P. Smith and B.P. Holzappel 461 - 470
- Key Factors Affecting Radical Formation in Wine Studied by Spin Trapping and EPR Spectroscopy
R.J. Elias, M.L. Andersen, L.H. Skibsted, and A.L. Waterhouse 471 - 476
- Effect of a Pectinase-Surfactin Preparation on Extraction of Pigments and Total Polyphenol from Malbec Grape Skins
M.S. Cabeza, M.G. Merin, M.C. Martín, D.C. Sabaté, M.C. Audisio, and V.I. Morata de Ambrosini 477 - 483
- Differential Growth of Mycorrhizal Field-Inoculated Grapevine Rootstocks in Two Replant Soils
A. Nogales, J. Luque, V. Estaún, A. Camprubí, F. Garcia-Figueres, and C. Calvet 484 - 489
- Genetic Variation among Koshu (*Vitis vinifera* L.) Accessions Generated by Retrotransposon Insertion into Genome
K. Fujita, M. Shimazaki, T. Furiya, T. Takayanagi, and S. Suzuki 490 - 496
- Identification, Incidence, and Pathogenicity of Fungal Species Associated with Grapevine Dieback in Texas
J.R. Urbez-Torres, P. Adams, J. Kamas, and W.D. Gubler 497 - 507
- Role of γ -Aminobutyric Acid as a Source of Nitrogen and Succinate in Wine
B. Bach, F.X. Sauvage, S. Dequin, and C. Camarasa 508 - 516
- Characterization of a Brazilian Grape Germplasm Collection Using Microsatellite Markers
P.C.S. Leão, S. Riaz, R. Graziani, G.S. Dangl, S.Y. Motoike, and M.A. Walker 517 - 524
- Pedigrees of Fifty Table-Grape Cultivars
A.M. Vargas, M.T. de Andrés, J. Borrego, and J. Ibáñez 525 - 532

continued next page

Research Notes

Yield Components and Fruit Composition of Five Barbera Grapevine Selections
in the San Joaquin Valley, California

M.W. Fidelibus, L.P. Christensen, D.A. Golino, N.L. Sweet, and K.A. Cathline

533 - 536

Functional Expression of the *DUR3* Gene in a Wine Yeast Strain to Minimize Ethyl
Carbamate in Chardonnay Wine

M.S. Dahabieh, J.I. Husnik, and H.J.J. van Vuuren

537 - 541

Technical Brief

An Expanded Clay Pebble, Continuous Recirculating Drip System for Viable
Long-Term Hydroponic Grapevine Culture

M.D. Wheatley, E.A.R. Tattersall, R.L. Tillett, and G.R. Cramer

542 - 549

Abstracts

Abstracts from Presentations at the ASEV Eastern Section 34th Annual Meeting
20-22 July 2009, Painesville, Ohio

550A - 555A

Author Index Volumes 56 through 60

556 - 571

Subject Index Volumes 56 through 60

572 - 578

Books Received

579 - 580

AJEV Reviewers for 2009

581