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Resúmenes de comunicaciones
Résumés des communications
Zusammenfassungen der beiträge
Riassunti delle comunicazioni

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ZUSAMMENFASSUNGEN DER BEITRÄGE
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40TH WORLD VINE AND WINE CONGRESS
15TH GENERAL ASSEMBLY OF THE OIV
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“VINE & WINE: SCIENCE AND ECONOMY, CULTURE AND EDUCATION”

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ORAL AND SHORT COMMUNICATIONS

VITICULTURE, VITICULTURA, VITICULTURE, WEINBAU, VITICOLTURA22

2017-1444: NEW WINE-GROWING REGIONS OF BRAZIL AND THEIR IMPORTANCE IN THE EVOLUTION OF BRAZILIAN WINE	23
2017-1606: HOW TO DISCRIMINATE BETWEEN GRAPE CULTIVAR USED TO PRODUCE NUTRACEUTICAL FRUIT JUICE.....	25
2017-1607: PASTEURIA, A BACTERIA USED IN THE BIOLOGICAL CONTROL OF PLANT-PARASITIC NEMATODES.....	26
2017-1598: INTENSITY OF ANTHRACNOSE IN RESISTANT VARIETIES (PIWI) IN THE HIGH ALTITUDE REGIONS OF SOUTHERN BRAZIL.....	27
2017-1546: SUCCESS OF ORGANIC GRAPES IN DIFFERENT VINEYARD CONDITIONS: YIELD AND BERRY QUALITY	29
2017-1705: GENOTYPING BY SEQUENCING (GBS) TO EVALUATE THE GENETIC DIVERSITY OF MONASTRELL, AN OLD GRAPEVINE VARIETY IN THE PROVINCE OF ALICANTE (SPAIN)	31
2017-1568: MODIFICATIONS IN CLIMATE SUITABILITY FOR WINE PRODUCTION OF ROMANIAN WINE REGIONS AS A RESULT OF CLIMATE CHANGE	32
2017-1457: FOLIAR APPLICATION OF DIFFERENT ELICITORS TO TEMPRANILLO GRAPEVINES: EFFECTS ON GRAPE AMINO ACID COMPOSITION	34
2017-1602: HYPOCALORIC TABLE GRAPES: POSSIBILITY OF CULTIVATION AND NEW MARKET PROSPECTS	36
2017-1456: CYCLE, YIELD AND MUST CHEMICAL CHARACTERISTICS OF VARIETIES OF WHITE WINE GRAPE.....	38
2017-1626: FUNDAMENTAL RESEARCHES TO WRITE OF THE VITICULTURE A "CHART OF THE UNIVERSAL OR METAETHICAL SUSTAINABILITY 4.1C", ALSO, ACCORDING TO THE "PRODUCTIVE REVOLUTION OF 4.1C" OF CONEGLIANO CAMPUS 5.1C.	39
2017-1442: TOTAL POLYPHENOLS CONTENTS IN DIFFERENT GRAPEVINE VARIETIES IN HIGHLANDS OF SOUTHERN BRAZIL.....	41
2017-1680: EFFECT OF GENOTYPE X ENVIRONMENT INTERACTIONS OF GRAPEVINE HYBRIDS CHARACTERISTICS.....	42
2017-1430: CHITOSAN AND GRAPE SECONDARY METABOLITES: A PROTEOMICS AND METABOLOMICS APPROACH.....	43

2017-1704: THE DYNAMICS OF OCHRATOXIGENIC FUNGI CONTENTS THROUGH DIFFERENT STAGES OF DRIED GRAPE PRODUCTION.....	45
2017-1636: GRAPEVINE CANOPY MANAGEMENT USING THE VITICANOPY APP.....	47
2017-1515: RENEWABLE ENERGY AND HYDROGEN ON-SITE GENERATION FOR IRRIGATION AND MOBILITY IN VINEYARDS	48
2017-1517: FOLIAR APPLICATION OF SPECIFIC INACTIVATED YEAST WITH ACTION ON PHENOLIC AND AROMATIC METABOLISM OF GRAPES.....	50
2017-1521: EFFECTS OF PARTIAL ROOT ZONE DRYING AND DEFICIT IRRIGATION STRATEGIES ON YIELD AND QUALITY OF MICHELLE PALIERI GRAPE CULTIVAR IN TEKIRDAG CONDITIONS.....	52
2017-1545: EVALUATION OF LONG TERM CHANGES FOR VITICULTURAL CLIMATE INDICES IN TURKEY-THRACE.....	54
2017-1511: NEW SEEDLESS GRAPEVINE VARIETIES WITH MULTIPLE BIOLOGICAL RESISTANCE CREATED IN THE REPUBLIC OF MOLDOVA.....	55
2017-1497: FLORA RICHNESS AS A TRIGGER TO MAINTAIN BIODIVERSITY IN VITICULTURE?	57
2017-1490: PERFORMANCE OF THE NEW SEEDLESS GRAPE 'BRS ISIS' GROWN IN SUBTROPICAL AREA	58
2017-1474: EVOLUTION OF THE FRENCH VINEYARD PRACTICES: FROM "CONTROLLED VINE GROWING" TO AGRO-ECOLOGY.....	59
2017-1440: INTEREST OF SEEING PRECISION VITICULTURE THROUGH TWO DISTRIBUTED COMPETENCES: DETERMINATION OF RESOURCES AND SCHEME ALLOWING SOME PRACTICAL RECOMMENDATIONS.....	61
2017-1438: TEN GRAPEVINE ROOTSTOCKS: EFFECTS ON VEGETATIVE GROWTH, PRODUCTION AND GRAPE COMPOSITION OF CV. SAUVIGNON BLANC IN THE APELLATION OF ORIGIN RUEDA (SPAIN) ..	63
2017-1427: FROM VINE TO WINE: BREEDING NEW CULTIVARS TO CHALLENGE CLIMATE CHANGE AND DISEASES.....	65
2017-1422: PROJECT: SUSTAINABLE SMART WINE.....	67
2017-1479: ANALYSIS OF CLIMATE CHANGE INDICES IN RELATION TO WINE PRODUCTION: A CASE STUDY IN THE DOURO REGION (PORTUGAL).	69
2017-1633: GUIDE FOR AGROECOLOGY IN VITICULTURE, A TOOL FOR THE SECTOR.....	71
2017-1703: GENETIC IDENTIFICATION AND CHARACTERIZATION OF ARMENIAN GRAPEVINE CULTIVARS	73
2017-1694: IMPROVEMENT OF THE ENVIRONMENTAL PERFORMANCE OF WINEGROWING PRACTICES AND RISK ANALYSIS FOR GRAPE QUALITY: STEP TOWARDS ECOQUALICONCEPTION.....	75
2017-1692: LIFE CYCLE ASSESSMENT FOR THE IDENTIFICATION OF THE GREENHOUSE GAS EMISSIONS HOTSPOTS IN A CYPRIOT WINERY AND MITIGATION POTENTIAL.....	77

2017-1690: BIOGEOCHEMICAL ASSOCIATION OF SOIL AND NUTRIENTS IN CV. CARMENERE AND PINOT NOIR BERRIES: APPLIED STUDY IN FOUR VINEYARDS OF CENTRAL ZONE OF CHILE.....	78
2017-1677: RECOVERY AND VALORIZATION OF THE ANCIENT VITICULTURAL BIODIVERSITY OF ENOTRIA IN THE MODERN CALABRIA REGION.....	81
2017-1672: TELEDETECTION IS NOT TELE-DIVINATION: THE IMPORTANCE OF THE CAUSES IN PRECISION VITICULTURE	82
2017-1666: AGROLIFE PROJECT: SUSTAINABLE VITICULTURE IN TRADITIONAL VINEYARDS IN CYPRUS	84
2017-1574: GENETIC ANALYSIS OF LOOSE CLUSTER ARCHITECTURE IN GRAPEVINE	85
2017-1634: EARLY YIELD PREDICTION THROUGH GRAPEVINE BUD DISSECTION AND IMAGE ANALYSIS	87
2017-1552: VITICULTURE IN BULGARIA - CONDITION AND PROSPECTS.....	88
2017-1630: WINESEQ: A NEW TOOL FOR THE STUDY OF THE FUNCTIONAL BIODIVERSITY OF SOILS, AND ITS USE AS BIOMARKER AND GUIDE FOR VITIVINICULTURE PRACTICES	88
2017-1611: GRAPEVINE PHENOLOGY AND TEMPERATURE VARIABILITY IN CENTRAL PORTUGAL: EFFECTS AND OBSERVED TRENDS	91
2017-1604: EFFECTS OF HOT WATER TREATMENTS ON DORMANT GRAPEVINE PROPAGATION MATERIALS USED FOR GRAFTED VINE PRODUCTION	92
2017-1603: QUALITY TABLE GRAPES AND PHYSIOLOGY OF GRAPEVINES, CONDITIONED BY THE ROOTSTOCK AND IRRIGATION REGIME.....	93
2017-1581: GRAPEVINE POWDERY MILDEW (UNCINULA NECATOR (SCHW.) BURR.) – A PERMANENT ISSUE CONCERNING THE HEALTH STATUS OF GRAPES CENOSIS IN BULGARIA	94
2017-1418: THE INFLUENCE OF THE LEAF TO YIELD RATIO ON CARBOHYDRATE RESERVES IN GRAPEVINE (VITIS VINIFERA L. 'QIZIL UZOM').....	95
2017-1565: ECA&D AND E-OBS: HIGH-RESOLUTION DATASETS FOR MONITORING CLIMATE CHANGE AND EFFECTS ON VITICULTURE IN EUROPE	97
2017-1638: DETERMINATIONS OF ADAPTATION LEVEL OF WINE GRAPE VARIETIES IN TERMS OF CLIMATIC DATA IN WINE GROWING REGIONS OF TURKEY.....	99

OENOLOGY, ENOLOGÍA, OENOLOGIE, ÖNOLOGIE, ENOLOGIA101

2017-1701: STUDY OF ANISOLS IN THE WINE INDUSTRY.....	102
2017-1573: DEVELOPMENT OF A CHEMICAL MODEL TO PREDICT THE DOSES OF CALCIUM SULFATE AND TARTARIC ACID NECESSARY TO ACIDIFY MUSTS IN SHERRY AREA.	102

2017-1501: INFLUENCE OF SUPPLEMENTATION WITH INACTIVATED DRY YEASTS DURING THE TIRAGE OF SPARKLING WINES (CAVA) ON ITS COMPOSITION, ITS FOAMING PROPERTIES AND ITS SENSORIAL QUALITY.....	104
2017-1566: THE INFLUENCE OF THE DIFFERENT TECHNIQUES OF MACERATION ON THE AROMATIC AND PHENOLIC PROFILE OF THE BUSUIOACĂ DE BOHOTIN WINE	106
2017-1454: MICROBIOLOGICAL STABILIZATION OF WINES BY HELICOIDAL UV-C REACTOR.....	108
2017-1556: REVERSE OSMOSIS INFLUENCE OVER THE CONTENT OF METALS AND ORGANIC ACIDS IN LOW ALCOHOLIC BEVERAGES	109
2017-1555: CONTENT OF METALS AND ORGANIC ACIDS FROM EXPERIMENTAL SPARKLING WHITE WINES	111
2017-1536: THE EFFECT OF COLD MACERATION ON THE PHENOLIC COMPOSITION OF RED WINES	112
2017-1553: OENOLOGICAL POLYSACCHARIDES: IMPACT ON RED WINE PHENOLIC COMPOSITION .	113
2017-1577: RED WINE ASTRINGENCY: AN APPROACH FROM ORAL LUBRICATION AND TO THE ROLE OF AGGREGATES IN THE PERCEPTION	114
2017-1416: EFFECT OF AGING ON LEES ON THE QUALITY OF ROSE SPARKLING WINE FROM SERBIA	116
2017-1462: NEW TECHNIQUES FOR WINE AGING	117
2017-1524: MOLECULAR CHARACTERIZATION AND TECHNOLOGICAL PROPERTIES OF WINE YEASTS ISOLATED DURING SPONTANEOUS FERMENTATION OF VITIS VINIFERA L. CV. NARINCE GRAPE MUST GROWN IN ANCIENT WINEMAKING AREA TOKAT, ANATOLIA.....	118
2017-1485: PULSED ELECTRIC FIELDS (PEF) APPLICATIONS ON WINE PRODUCTION: A REVIEW	119
2017-1512: FTIR ANALYSIS OF ASH IN WINE.....	120
2017-1506: DISCRIMINATION OF RELEVANT PROPERTIES OF CARBOXYMETHYLCELLULOSES ON POTASSIUM BITARTRATE INHIBITION ON DEFINED HYDRO-ALCOHOLIC SOLUTIONS.....	122
2017-1554: RESERVE RUBY PORT WINE: ALTERNATIVES TO GELATIN PROTEIN FINING AGENTS.....	123
2017-1429: INFLUENCE OF DIFFERENT COMMERCIAL YEASTS OF THE PHENOL PATTERN OF ROSE WINE.....	125
2017-1673: AN ASSESSMENT OF POTENTIAL APPLICATIONS WITH PULSED ELECTRIC FIELD IN WINES.	125
2017-1670: APPROACHES TO OUTLINE THE AROMATIC PROFILE OF KYOHO WINES FROM SOUTH KOREA.....	126
2017-1428: INFLUENCE OF DIFFERENT YEASTS OF THE AMINO ACID PATTERN OF ROSE WINE.....	127
2017-1437: LINKING MICROBIAL COMMUNITY ON GRAPES FROM TWO PORTUGUESE WINE REGIONS TO THE BIOGENIC AMINES PRODUCTION IN MUSTS	128

2017-1631: RESISTANCE TO AGEING OF PRIMITIVO RED WINE: EVOLUTION OF ANTHOCYANIN- DERIVED PIGMENTS	130
2017-1433: PROCESSES FOR WINERIES WASTEWATER ADAPTED TO THE SECTOR OF THE BIOLOGICAL WINES: PROSPECT AND INVENTORY OF FIXTURES	131
2017-1619: THE IMPACT OF SOME COMMERCIAL YEAST STRAINS ON AROMA COMPOUNDS AND SENSORIAL ANALYSIS ON TWO WHITE WINE VARIETIES MADE IN PGI DEALURILE OLTENIEI, ROMANIA	133
2017-1610: CATEGORICAL PRINCIPAL COMPONENT ANALYSIS (CATPCA): A STATISTICAL METHOD FOR SENSORY DATA TREATMENT APPLIED TO THE SENSORY PROFILE OF PORT WINES.....	134
2017-1593: STUDY OF WINE VOLATILE COMPOSITION FROM CARIGNAN GRAPES UNGRAFTED AND GRAFTED WITH PAÍS (VITIS VINIFERA L.) ROOTSTOCK FROM TEN WINE-GROWING SITES IN MAULE VALLEY, CHILE.....	136
2017-1588: DETECTION WITH FLASH GAS CHROMATOGRAPHY ELECTRONIC NOSE OF THE.....	138
2017-1586: EFFECT OF PRESSING UNDER AIR OR NITROGEN ON MUST COMPOSITION	140
2017-1585: APPLICATIONS OF WINE SPECTRAL FINGERPRINTING.....	142
2017-1446: TIMING OF LEAF REMOVAL MODIFIES CHEMICAL AND PHENOLIC COMPOSITION OF SAUVIGNON BLANC WINE	143
2017-1424: DEVELOPMENT OF NEW YEAST STRAINS FOR LOWERING ETHANOL CONTENT OF WINES AND INCREASE OF GLYCEROL.....	145
2017-1468: SCIENTIFIC STUDY OF ¹³ C/ ¹² C CARBON AND ¹⁸ O/ ¹⁶ O OXYGEN STABLE ISOTOPES BIOLOGICAL FRACTIONATION IN GRAPES IN THE BLACK SEA, DON BASIN AND THE WESTERN CASPIAN REGIONS	146
2017-1483: GRAPE MUST ENRICHMENT WITH WINERY AND GRAPEVINE BY-PRODUCTS TO INCREASE ITS ANTIOXIDANT AND AROMA POTENTIAL	148
2017-1434: APPLICATION OF FLOW CYTOMETRY TO WINE MICROORGANISMS.....	150
2017-1499: METHANOL IN WINE	151
2017-1421: PHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY OF ARMENIAN CULTIVATED AND WILD GRAPES.....	152
2017-1417: BULK DRY WINE ISOTOPE COMPOSITION AS AN INDICATOR OF VINE WATER STATUS: COMPARATIVE STUDY OF ETHANOL AND WINE ¹³ C COMPOSITION.	153
2017-1460: VARIETAL AROMATIC PROFILE OF MAVRUD, BOUQUET AND RUBIN GRAPES.....	154
2017-1575: COLOUR MEASUREMENT AS A DISCRIMINATING FACTOR IN QUALITY CONTROL OF BULGARIAN RED WINES.	155
2017-1696: FORECASTING WATER AND CARBON FOOTPRINT AND UTILITIES CONSUMPTION IN CHILEAN VINEYARDS	157

2017-1691: THE FATE AND INFLUENCE OF GLUTATHIONE ADDITIONS DURING ALCOHOLIC FERMENTATION.....	158
2017-1671: INFLUENCE OF STARTER FORMULATION ON THE FERMENTATION PERFORMANCES OF INDIGENOUS SACCHAROMYCES CEREVISIAE STRAINS.....	159
2017-1664: INACTIVATION OF MICROORGANISMS BY UV-TREATMENT OF MUST AND WINE.....	161
2017-1646: SACCHAROMYCES CEREVISIAE STARTERS AS A TOOL TO PRODUCE NO-SULPHUR-ADDED WINES.....	163
2017-1621: PESTICIDE REMOVAL IN WINE WITH A PHYSICAL TREATMENT BY ZEOLITES	164
2017-1537: IMPACT OF DIFFERENT WOOD CHIP SPECIES (OAK, ACACIA AND CHERRY) ON EVOLUTION OF INDIVIDUAL ANTHOCYANINS, CHROMATIC CHARACTERISTICS AND ANTIOXIDANT CAPACITY IN MODEL WINE SOLUTIONS	166
2017-1579: GENETIC DIVERSITY OF YEASTS ISOLATED FROM EURASIAN POPULATIONS OF VITIS VINIFERA SSP. SYLVESTRIS (GMELIN) HEGI.....	168
2017-1505: SENSORY TYPICITY OF THE PDO COTEAUX DU LAYON: ACCEPTABILITY BY THE ACTORS (PROFESSIONALS AND CONSUMERS) OF WINES WITH LOWER ALCOHOL CONTENT.....	170
2017-1559: STUDY OF THE EFFECTIVENESS OF A STRAIN OF SACCHAROMYCES CEREVISIAE SELECTED FOR THE PRODUCTION OF WINES WITH HIGHER ACIDITY AND LOWER ALCOHOLIC STRENGTH.....	172
2017-1547: AUTHENTICATION OF BOTTLED WINE VIA FAST AND NON-DESTRUCTIVE ANALYSIS OF PACKAGING BY FSLA-ICPMS	175
2017-1535: A NEW TECHNICAL OPTION FOR PARTIAL ALCOHOL REDUCTION BASED ON ZEOLITE MEMBRANE (KONKERTM RA) TECHNOLOGY	176
2017-1520: CHARACTERIZATION OF THE PEAR-AROMA PROFILE AND ITS IMPACT ON THE QUALITY AND TYPICITY OF AUSTRIAN PINOT BLANC WINES.....	178
2017-1519: THE INHIBITION OF SACCHAROMYCES CEREVISIAE POPULATION DURING ALCOHOLIC FERMENTATION OF GRAPE MUST BY OCTANOIC, DECANOIC AND DODECANOIC ACID MIXTURE	180
2017-1518: THE EFFECT OF INACTIVATED YEAST-BASED PRODUCT ON THE PROCESS OF WINE AGING, PHENOLIC COMPOUNDS AND SENSORY CHARACTERISTICS OF RED WINE PROKUPAC.....	181
2017-1516: COMPARISON OF THE EFFECT OF 8 CLOSURES IN CONTROLLED INDUSTRIAL CONDITIONS ON THE SHELF LIFE OF A RED WINE	184
2017-1583: STATUS QUO AND FUTURE OF WINE AUTHENTICATION.....	185

**ECONOMY AND LAW, ECONOMÍA Y DERECHO, ECONOMIE ET DROIT,
WIRTSCHAFT UND RECHT, ECONOMIA E DIRITTO187**

2017-1613: HOW INTRINSIC VALUES INFLUENCE WINES PRICES - A HEDONIC PRICE INDEX OF HUNGARIAN WINES IN THE OFF-TRADE SECTOR	188
2017-1533: PERCEPTION OF THE COSTS AND BENEFITS OF SUSTAINABLE ENVIRONMENTAL CERTIFICATION PROGRAMS : COMPARISON BETWEEN FRENCH , CALIFORNIAN AND ITALY WINE INDUSTRY	189
2017-1558: SUSTAINABILITY AS A MEANS TO ACHIEVE THE MARKET POSITIONING OF A WINERY ..	191
2017-1560: STRATEGIES FOR GOVERNANCE AND COMPETITIVENESS OF VITICULTURE IN SÃO PAULO (BRAZIL)	192
2017-1572: PIEDMONTESE CONSUMER PREFERENCE FOR WINE ATTRIBUTES.....	194
2017-1419: WINES OF BRAZIL: FROM THE PAST TO THE FUTURE	196
2017-1693: CONTRIBUTIONS OF ENOTOURISM TO THE VITIVINICULTURE OF THE STATE OF SÃO PAULO (BRAZIL)	198
2017-1590: EVOLUTION OF GRAPEVINE SURFACES IN ROMANIA AFTER ACCESSION TO EUROPEAN UNION.....	199
2017-1608: WINE AND SOCIETY: CORPORATE SOCIAL RESPONSIBILITY IN WINE SECTOR.....	200
2017-1584: TECHNICAL EFFICIENCY OF PROTECTED DESIGNATIONS OF ORIGIN IN SPAIN: AN ANALYSIS BY TYPE OF WINE MARKETED	202
2017-1617: THE NEED TO INCORPORATE COMMUNICATION SKILLS IN THE TRAINING PROGRAM OF ENOLOGISTS	205
2017-1443: BRAZILIAN SPARKLING WINE: A SUCCESSFUL TRAJECTORY.....	206
2017-1642: ARE SMALL AND MEDIUM SIZED WINE PRODUCERS DEALING WITH BUSINESS TO BUSINESS E-COMMERCE? EXPERIENCES, OPPORTUNITIES, OBSTACLES	208
2017-1650: FORECASTING AND EVALUATION FOR RAISIN EXPORT IN TURKEY	209
2017-1656: THE BIODYNAMIC WINE SECTOR IN ITALY: MARKET ANALYSIS AND FUTURE PERSPECTIVES	210
2017-1435: DRIVERS OF RAPID GROWTH OF WINE INDUSTRY IN INDIA.....	212
2017-1667: THE PERSPECTIVE OF ORGANIC WINE IN BRAZIL, TRENDS, DEMANDS AND PRODUCTION	213
2017-1426: BRAZILIAN MARKET FOR TABLE WINE: THE NEW OFFER PROFILE.	215
2017-1425: BEHAVIOUR OF MILLENIAL WINE CONSUMERS IN SOUTHERN SERBIA.....	216

2017-1597: FROM NEW CLONES TO FLOWERS - INNOVATIVE BUSINESS MODELS IN THE HUNGARIAN WINE ECONOMY.....	217
2017-1449: A QUESTION OF AGE - GERMAN WINE DRINKERS AND THEIR CONSUMPTION BEHAVIOUR WITH FOCUS ON THE YOUNGER GENERATION	218
2017-1523: THE USE OF WINE TOURISM AS A POSSIBILITY OF THE MARKETING WITH WINE COOPERATIVES.....	219
2017-1458: PROSPECTIVE STUDY FOR FRENCH ORGANIC WINES INDUSTRY	220
2017-1504: SPANISH WINE PROTECTED DESIGNATIONS OF ORIGIN IN GLOBAL MARKETS.....	222
2017-1528: METHODOLOGY FOR THE ANALYSIS OF COMPETITIVENESS IN THE INTERNATIONAL WINE MARKETS	224
2017-1531: DIVERSITY OF THE AOC – DIVERSITY OF THE ENVIRONMENTAL LABELS DIVERSITY OF THE CONSUMERS: WHICH STRATEGY OF VALORIZATION FOR THE WINE SECTOR ?	226
2017-1582: ON THE EFFECTS OF SEARCH ATTRIBUTES ON PRICE VARIABILITY:AN EMPIRICAL INVESTIGATION ON QUALITY WINES	227
2017-1620: MARKET CAPACITY AND COMPETITIVE ADVANTAGES OF BALKAN COUNTRIES' WINE INDUSTRY	230
2017-1632: WINE AND CULINARY TOURISM: PREFERENCES OF EXPERIENTIAL CONSUMERS	231
2017-1665: MARKETING STRATEGIES & NEW MEDIA: WINERIES' USE OF ONLINE COMMUNICATION TOOLS IN PIEDMONT, TUSCANY AND BORDEAUX AREAS.....	233
2017-1678: TECHNICAL NORMS FOR GEOGRAPHICAL INDICATIONS AND THEIR REFLEXES FOR THE WINE SECTOR.	235
2017-1685: BIASED INFORMATION IN WINE EVALUATIONS. CAN WE TRUST IN WINES EXPERTS?...	236
2017-1578: THE WINE ADOPTION PROCESS AND ITS KEY FACTORS AMONG CHINESE CONSUMERS	238

ECONOMY AND LAW – WINE AND SOCIETY, ECONOMÍA Y DERECHO - VINO Y SOCIEDAD, ECONOMIE ET DROIT – VIN ET SOCIETE, WIRTSCHAFT UND RECHT - WEIN UND GESELLSCHAFT, ECONOMIA E DIRITTO - VINO E SOCIETÀ.....241

2017-1601: VALORISATION OF NATIVE GRAPES TO PRODUCE SPARKLING WINES IN WARM TEMPERATE REGIONS.....	242
2017-1508: THE ROLE OF PUBLIC POLICIES IN THE PROMOTION OF WINE HERITAGE	243
2017-1464: POTENTIAL OF LACTIC ACID BACTERIA AS SUPPRESSORS OF WINE ALLERGIES	245
2017-1489: THE EFFECT OF COLD MACERATION ON THE PHENOLIC COMPOSITION OF RED WINES	246

2017-1600: AUTOCHTHONOUS VINES FROM SOUTH ITALY FOR THE PRODUCTION OF FINE DESSERT WINES	247
2017-1455: INFLUENCE OF HARVEST DATE ON VOLATILE AND SENSORY PROFILE OF VINE LEAVES INFUSIONS FROM TWO PORTUGUESE RED GRAPE VARIETIES	249
2017-1645: HEALTH ASPECTS OF WINE CONSUMPTION	251
2017-1647: PRODUCERS' APPROACHES ABOUT GOOD AGRICULTURAL PRACTICES IN MANISA AND İZMIR	252
2017-1661: POLYPHENOLIC COMPOSITION AND ANTIOXIDANT PROPERTIES OF GRAPE SEEDS FROM WINE INDUSTRY BYPRODUCTS.....	254
2017-1447: WOMEN HAVE BETTER OLFACTORY PERCEPTION FOR WINE AROMAS.....	256
2017-1599: PRODUCTION OF RED WINE READY TO DRINK FROM NEW HYBRIDS OF SEEDLESS GRAPES WINE.....	257
2017-1564: CONSUMER PERCEPTION OF SULPHITE-FREE WINES IN THREE EUROPEAN COUNTRIES	259
2017-1448: WINE IN MODERATION ADVOCATES – DEVELOPING A COMMUNICATION STRATEGY IN GERMANY	261
2017-1469: PROMOTION OF WINE EDUCATION AND CULTURE - KEY TO SUSTAINABLE INDUSTRY DEVELOPMENT	262
2017-1472: OPPORTUNITIES OF PURPOSEFUL USE OF CORPORATIVE SOCIAL RESPONSIBILITY RESOURCES IN THE WINE SECTOR, TO ENHANCE THE STABILITY AND CULTURAL UNIQUENESS OF WINERY REGIONS	265
2017-1475: SOECO: SOCIO-ECONOMIC INDICATORS FOR VITICULTURE AND INNOVATIVE CULTURAL SYSTEMS	267
2017-1432: CONTRIBUTION OF WINE KNOW-HOW TO THE SUSTAINABLE DEVELOPMENT AND THE APPROACH OF SOCIAL RESPONSIBILITY AND ENVIRONMENTAL, WITHIN THE FRAMEWORK OF A PATRIMONIAL GOVERNANCE OF THE TERROIRS	269
2017-1534: EUROPEAN CONSUMERS' PERCEPTION OF MODERATE WINE CONSUMPTION ON HEALTH	271
2017-1688: ANALYSIS OF SUSTAINABLE TERRITORIAL DEVELOPMENT IN THE VALE DOS VINHEDOS, RIO GRANDE DO SUL, BRAZIL, IN THE 2000S.....	272
2017-1587: ANTIOXIDANT ACTIVITY OF WINE ASSESSED BY DIFFERENT IN VITRO METHODS	274
2017-1609: THE WINE CULTURE, DRIVER OF THE SUSTAINABLE DEVELOPMENT OF WINE REGIONS	277
2017-1660: THE HISTORY OF WINE AS A HERITAGE AND AN ECONOMIC ASSET	279
2017-1679: GRAPE RHÔNE VALLEY POMACES CHARACTERIZATION AND THEIR ROLE AGAINST HYPERTENSION DISEASE.....	279
2017-1529: DEFINITION OF MODERATION	282

POSTER COMMUNICATIONS

VITICULTURE, VITICULTURA, VITICULTURE, WEINBAU, VITICOLTURA284

POSTER N° 1012: UKRAINIAN GRAPEVINE GERMPLASM DIVERSITY AND THEIR POTENTIAL FOR SELECTION	285
POSTER N° 1023: WEED VEGETATION OF A VINEYARD ON SANDY SOIL.....	286
POSTER N° 1022: "ALETTA" GRAPE.....	288
POSTER N° 1021: GRAPE REGIONS OF UKRAINE.....	289
POSTER N° 1020: DEVELOPMENT OF A MULTICRITERION METHOD EVALUATION ECONOMIC FOR A SUSTAINABLE VITICULTURE.....	291
POSTER N° 1019: VARIATION OF STRUCTURAL BUNCH AND BERRIES INDICATORS AND PHYSICO-CHEMICAL WINE PROPERTIES OF CABERNET SAUVIGNON CV. UNDER INFLUENCE OF DEFOLIATION AND HARVEST TIME IN AGROECOLOGICAL CONDITIONS OF CENTRAL SERBIA.....	294
POSTER N° 1018: THE YIELD AND QUALITY OF SOME WINEGRAPE CULTIVARS IN THE EAST MEDITERRANEAN (HATAY/TURKEY) CONDITIONS.....	296
POSTER N° 1017: ENZYMATIC ANALYSIS NORMALIZATION IN VINE SOILS: DETERMINATION OF QUALITY AND BIOLOGICAL PRODUCTIVITY	297
POSTER N° 1016: THE EFFECT OF DIFFERENT SOILLESS CULTURE MEDIA ON YIELD AND QUALITY PROPERTIES OF EARLY SWEET GRAPE CULTIVAR.....	298
POSTER N° 1015: CHANGING OF THE WATER AMOUNTS APPLIED ACCORDING TO THE LEAF WATER POTENTIAL IN SOME GRAPE VARIETIES (V.VINIFERA L.)	299
POSTER N° 1001: PHENOLOGICAL CHANGES OF SHOOT CARBOHYDRATES AND PLANT GROWTH CHARACTERISTICS IN VITIS LABRUSCA L. GRAPE.....	301
POSTER N° 1013: EFFECTS OF DIFFERENT CROP LOAD AND LEAF REMOVAL TREATMENTS ON BERRY FEATURES AND YIELD IN CV. SULTANA (VITIS VINIFERA L.)	302
POSTER N° 1026: EXAMINATION OF VIRAL PATHOGENS IN GRAPEVINE PLANTS GROWING IN GREENHOUSE AND SPATIAL ISOLATE.....	303
POSTER N° 1011: THE EFFECT OF USING DIFFERENT DRYING SYSTEMS ON RAISIN PROPERTIES	303
POSTER N° 1010: PREPARING FOR THE EFFECTS OF CLIMATE CHANGE IN TOKAJ (HUNGARY)	304
POSTER N° 1009: COLCHICINE APPLICATIONS IN TEKIRDAĞ MISKETI AND M.PALIERI GRAPE VARIETIES	305

POSTER N° 1008: CHARACTERIZATION OF FIVE RELICT GRAPEVINE GENOTYPES LOCATED IN LA MANCHA WINE REGION (SPAIN).....	306
POSTER N° 1007: INDIVIDUAL ANTHOCYANIN PROFILE OF SEVERAL NATIVE RED GRAPE VARIETIES (VITIS VINIFERA L.) FROM NORTH OF PORTUGAL	307
POSTER N° 1006: WATER POTENTIAL AND PHYSIOLOGY IN CV. VERDEJO: ALTERNATIVE ESTIMATE OF RESPONSE AT DIFFERENT TIMES TO THE VARIATION OF WATER REGIME IN THE D.O. RUEDA (SPAIN)	309
POSTER N° 1005: OCCURRENCE OF ANTHRACNOSE IN SAUVIGNON BLANC AND CABERNET FRANC DUE TO BUD LOAD IN A NEW BRAZILIAN WINE REGION	310
POSTER N° 1004: ABSCISIC ACID AND RIPENING OF CABERNET SAUVIGNON IN HIGHLANDS OF SOUTHERN BRAZIL.....	312
POSTER N° 1003: IDENTIFICATION, PROSPECTION AND CHARACTERIZATION OF WILD VINE POPULATIONS FROM THE CANTABRIAN COAST, FOR THE SEARCH OF HEALTHY COMPOUNDS IN THE GENOME OF TABLE GRAPES.....	313
POSTER N° 1002: EVALUATION OF ANTHOCYANIN COMPOSITION IN RED SENESCENT LEAVES OF VITIS VINIFERA L. TABLE GRAPE CULTIVARS.....	315
POSTER N° 1014: EXAMINATION OF SOME AGROTECHNICAL METHODS OF SOIL PROTECTION AGAINST CLIMATE CHANGE CAUSED WATER EROSION IN VINEYARDS IN TOKAJ (HUNGARY)	316
POSTER N° 1036: DIFFERENT SOIL TILLAGE AND SHOOT LENGTH EFFECTS ON YIELD, QUALITY AND WINE IN CV. CABERNET SAUVIGNON (VITIS VINIFERA L.).....	318
POSTER N° 1048: RESEARCH ON ORIGIN AND GENETIC IDENTIFICATION OF MONTENEGRIN GRAPEVINE VARIETY KRATOŠIJA – SYNONIMS: ZINFANDEL, PRIMITIVO, CRLJENAK KAŠČELANSKI ...	319
POSTER N° 1047: PROPOSAL TO EVALUATE THE TRIPLE PERFORMANCE ENVIRONMENTAL, QUALITY AND ECONOMIC VITICULTURAL SYSTEMS IN THE MIDDLE LOIRE VALLEY	320
POSTER N° 1046: ROL GENES AND REACTIVE OXYGENE SYSTEM ACCUMULATE SECONDARY METABOLITS AND THEIRS POSSIBLE EFFECTS TO GRAPEVINE VARIETIES IN THRACE REGION.....	322
POSTER N° 1045: EFFECTIVENESS OF STILBENE PHYTOALEXINS IN THE PLASMOPARA VITICOLA- GRAPEVINE INTERACTION	323
POSTER N° 1044: SOIL LOSS DUE TO EROSION IN THE NIŠ WIN-GROWING REGION (SERBIA)	324
POSTER N° 1043: GEOLOGICAL AND HYDROGEOLOGICAL INFLUENCES IN THE DEVELOPMENT OF ROOTS IN VITICULTURE, STUDY IN FOUR VINEYARDS OF THE CENTRAL ZONE OF CHILE.....	325
POSTER N° 1042: INTEGRATION OF MULTISPECTRAL REMOTELY PILOTED AIRCRAFT SYSTEM IMAGERY AND AGROCLIMATIC FIELD DATASETS FOR SUPPORTING SMALLHOLDING VINEYARD DECISION MAKING IN THE RIAS BAIXAS DO (NW SPAIN)	328
POSTER N° 1041: INTERACTIONS BETWEEN RHIZOBIUM VITIS AND MELOIDOGYNE INCOGNITA, M. JAVANICA, M. HAPLA AFTER INOCULATIONS OF DIFFIRENT VARIETIES OF GRAPEVINE ROOTS	330

POSTER N° 1040: EFFECTS OF COLCHICINE APPLICATIONS ON VIABILITY AND PLOIDY LEVEL IN IN VITRO SHOOT TIP CULTURE AT MICHELE PALIERI AND TEKIRDAĞ MISKETI GRAPE VARIETIES	331
POSTER N° 1039: COMPARISON OF ANTIMICROBIAL EFFECTS OF DISC DIFFUSION AND AGAR WELL DIFFUSION METHODS USING SOME ESSENTIAL OIL AGAINST RHIZOBIUM VITIS.....	332
POSTER N° 1024: INTEREST OF USING SOIL PROFILING METHOD TO DESCRIBE VINEYARD SOILS, ACCORDING TO MANAGE SOIL FERTILITY	333
POSTER N° 1037: COMPARISON OF MORPHOLOGICAL AND GENETIC CHARACTERISTICS OF SOME WELL-KNOWN GRAPE VARIETIES	335
POSTER N° 1025: NEW STRATEGIES OF PLANT GROWTH-PROMOTING AND BIOCONTROL OF FUNGAL PATHOGENS IN VITIS VINIFERA	336
POSTER N° 1035: BASIC RESEARCH FOR A GLOBALLY SUSTAINABLE “ORGANIC” AND “BIODYNAMIC” VITICULTURE (BIOBIOSOS4.1C") ACCORDING TO OF THE “GREAT CHAIN METAETHICS 4.1C"OF CONEGLIANO CAMPUS 5.1C AND THE "REVOLUTION, ALSO OF THE VITICULTURE, 4.1C.	337
POSTER N° 1034: EFFICIENCY AND SELECTIVITY OF THE HERBICIDE COMBINATION FLUMIOXAZIN AND GLYPHOSATE IN VINEYARDS.....	339
POSTER N° 1033: ENOLOGICAL POTENTIAL OF 21 WHITE WINE VARIETIES IN HIGH-ALTITUDE REGION OF SANTA CATARINA, BRAZIL.....	340
POSTER N° 1032: DAILY AND SEASONAL VARIATIONS OF TRUNK AND ROOT SAP FLOW IN GRAPEVINES UNDER MEDITERRANEAN CONDITIONS	342
POSTER N° 1031: PESTS AND DISEASE PROBLEMS IN VINEYARDS OF NORTH EASTERN MARMARA REGION OF TURKEY	343
POSTER N° 1030: NMR, A TOOL TO PROTECT WINE AUTHENTICITY	344
POSTER N° 1029: INFLUENCE OF NATURAL COVER VS. TILLAGE ON THE NUTRITIONAL STATUS OF VINES, YIELD AND GRAPE JUICE QUALITY	345
POSTER N° 1028: DRIP IRRIGATION OF THE ‘TEMPRANILLO BLANCO’ VARIETY (VITIS VINIFERA L.) IN A VINEYARD SHELTERED BY AOC RIOJA (SPAIN).....	347
POSTER N° 1027: EVALUATION OF TURKEY THRACE VINE GENETIC RESOURCES	349
POSTER N° 1049: EVALUATION OF THE OENOLOGICAL POTENTIAL OF CHILEAN CLONIAL SELECTIONS CV. CABERNET-SAUVIGNON, 2016.....	350
POSTER N° 1038: DIVERSITY OF SPANISH GRAPEVINES AS REFLECTED IN THE VARIATION OF LEAF MORPHOPOLGY.	352

OENOLOGY, ENOLOGÍA, OENOLOGIE, ÖNOLOGIE, ENOLOGIA355

POSTER N° 2013: OENOLOGICAL POTENTIAL OF SIX WHITE GRAPE GENOTYPES LOCATED IN THE SPANISH REGION OF CASTILLA-LA MANCHA..... 356

POSTER N° 2001: PHENOLIC ANTIOXIDANTS OF MERLOT VITIS VINIFERA L. VINE AND WINE BY-PRODUCTS 357

POSTER N° 2025: RAPID ASSESSMENT OF MYCOTOXINS IN WINE BY ON-LINE SPE-UHPLC-FLD 358

POSTER N° 2024: MONO- AND DI-GLUCOSIDE ANTHOCYANINS IN HYBRID CULTIVARS..... 359

POSTER N° 2023: IN BERRY DISTRIBUTION AND EXTRACTION OF THIOL PRECURSORS IN GEWÜRZTRAMINER..... 360

POSTER N° 2022: TECHNOLOGICAL VARIABILITY IN WINES FROM RED-FRUITED HYBRID VARIETIES 362

POSTER N° 2021: VARIETAL THIOL PRECURSORS IN GEWÜRZTRAMINER: EFFECT OF CLONE AND GRAPE RIPENING. 363

POSTER N° 2020: IRRIGATION EFFECTS ON PROANTHOCYANIDIN STRUCTURE OF GRAPE SKINS AND SEEDS DURING FRUIT RIPENING..... 364

POSTER N° 2019: EFFECT OF THE TIME OF WOOD CHIPS ADDITION ON PHENOLIC CONTENT OF RED WINES 365

POSTER N° 2018: THE CONTACT SURFACE OF OAK CHIPS / WINE DETERMINED BY IMAGE ANALYSIS 366

POSTER N° 2017: DETERMINATION OF AROMA COMPOUNDS OF RED WINE MADE FROM A NATIVE GRAPE VARIETY OF KUNTRA GROWN IN GALLIPOLI REGION OF TURKEY..... 367

POSTER N° 2016: CHARACTERIZING THE CHEMICAL AND SENSORY DESCRIPTORS OF TURKISH PREMIUM KALECIK KARASI RED WINES ACCORDING TO THEIR REGIONS BASED ON CHEMOMETRICS DATA ANALYSIS 368

POSTER N° 2027: DEVELOPMENT OF A SELECTIVE PROTOCOL FOR THE IDENTIFICATION OF A YEAST STRAIN SACCHAROMYCES CEREVISIAE OF INDUSTRIAL INTEREST 369

POSTER N° 2014: VOLATILE PROFILE OF GEWÜRZTRAMINER WINES - GCXGC FINGERPRINTING 370

POSTER N° 2028: COMPARING STUDY ON INDIGENOUS YEAST STRAINS PRESENTED IN THE VINEYARD OF THE NITRA WINE REGION, SLOVAKIA..... 371

POSTER N° 2012: STUDY OF THE OENOLOGICAL POTENTIAL OF MORIBEL AND TINTO FRAGOSO, TWO RED GRAPE GENOTYPES AUTOCHTHONOUS FROM CASTILLA-LA MANCHA 371

POSTER N° 2011: THE EFFECT OF REGION ON INDIVIDUAL PHENOLIC COMPOUNDS OF WHITE WINES 373

POSTER N° 2010: EFFECT OF STORAGE CONDITIONS ON THE ANTHOCYANIN DISTRIBUTION OF BOTTLED RED WINES.....	374
POSTER N° 2009: BARREL AGEING WITH BARREL CHAINS: EFFECT ON WINE QUALITY PARAMETERS	376
POSTER N° 2008: GRAPE SEED EXTRACTS AS AN ALTERNATIVE TO THE USE OF SO ₂ IN RED WINEMAKING.....	376
POSTER N° 2007: DISSOLVED GASES CONTROL DURING WINE BOTTLING BY MEMBRANE CONTACTOR	378
POSTER N° 2006: EFFECT OF THE TEMPERATURE OF MACERATION ON THE COMPOSITION PHENOLIC OF RED WINES PETIT VERDOT	380
POSTER N° 2005: AMINO-ACID CONTENT OF AGIORGITIKO (VITIS VINIFERA L. CV.) GRAPES AND WINES FROM SELECTED VINEYARDS OF NEMEA REGION.....	382
POSTER N° 2004: BRETTANOMYCES BRUXELLENSIS BEHAVIOUR AGAINST OENOLOGICAL PARAMETERS IN RED WINE FROM THE RHÔNE VALLEY	382
POSTER N° 2003: DISCRIMINATION IN WINES SPANISH, AMONG THEM AGED IN BARREL AND MACERATED WITH FRAGMENTS OF OAK. CLASSIFICATION CRITERIA	383
POSTER N° 2002: THE ROLE OF GALLIC AND CAFFEIC ACIDS IN WHITE WINE PRESERVATION	385
POSTER N° 2015: HIGH HYDROSTATIC PRESSURE AS AN ALTERNATIVE PROCESS FOR PRODUCTION OF WINES WITH REDUCED SO ₂ CONTENT.....	386
POSTER N° 2040: EFFECT OF VARIETY, TYPE OF AGING AND TYPE OF CONTAINER ON THE MEAN DEGREE OF POLYMERIZATION IN RED AND WHITE WINES.....	387
POSTER N° 2053: IMPACT OF BOTTLING CONDITIONS AND TYPE OF PACKAGING ON THE CHANGES IN CHROMATIC CHARACTERISTICS OF YOUNG WHITE WINES	388
POSTER N° 2052: AROMATIC CHARACTERISTICS OF CABERNET-SAUVIGNON WINES OF CHILE CLONAL SELECTIONS	389
POSTER N° 2051: WINEGRID: THE REMOTE AND REAL-TIME MONITORING SYSTEM OF THE WINE PRODUCTION PROCESS	390
POSTER N° 2050: CLASSIFICATION OF ORGANIC AND NON-ORGANIC WINES GROWN IN CROATIA BY SIMPLE ENOLOGICAL DESCRIPTORS, SENSORIAL EVALUATION AND CHEMOMETRIC METHODS.....	391
POSTER N° 2049: CHEMOMETRIC CHARACTERIZATION OF SOME CROATIAN WINES BY SIMPLE ENOLOGICAL DESCRIPTORS AND SENSORIAL EVALUATION	392
POSTER N° 2048: ENOLOGICAL POTENTIAL OF TINTA DE LA PÁMPANA BLANCA RED WINE FROM CASTILLA-LA MANCHA REGION	393
POSTER N° 2047: ANALYSIS AND OCCURRENCES OF ROTUNDONE IN AUSTRIAN GRÜNER VELTLINER THROUGH SPE-SPME-GC-MS.....	394

POSTER N° 2046: TECHNICAL FEASIBILITY OF GLUCOSE OXIDASE AS A PRE-FERMENTATION TREATMENT FOR LOWERING THE ALCOHOLIC DEGREE OF RED WINE.....	395
POSTER N° 2045: TEMPERATURE ON MALOLACTIC FERMENTATION OF 'CABERNET SAUVIGNON' WINE FROM HIGHLANDS OF SOUTHERN BRAZIL	396
POSTER N° 2044: MONITORING OF FATTY ACIDS IN ALCOHOLIC WINE FERMENTATION USING FTIR SPECTROSCOPY.....	398
POSTER N° 2043: ACCELERATION OF AGEING ON LEES IN RED WINES BY APPLICATION OF ULTRASOUNDS	400
POSTER N° 2026: TRANSCRIPTOMIC ANALYSIS OF SECONDARY METABOLISM'S KEY ENZYMES IN THE PHYTOPATHOGENIC FUNGUS BOTRYTIS CINEREA.....	401
POSTER N° 2041: POLYMERIC PIGMENTS FORMED IN SEQUENTIAL FERMENTATION OF RED FRESH MUSTS BY ADDING FLAVAN-3-OLS.....	402
POSTER N° 2054: ACCURACY OF MEASUREMENT AND PROFICIENCY TESTING IN WINE.....	403
POSTER N° 2039: USE OF NATURAL ANTHOCYANINS OF GRAPE, LEES AND WOOD EXTRACTS AS DYES AND FLAVOURINGS IN THE ELABORATION OF WINE VERMOUTH.....	403
POSTER N° 2038: CHARACTERIZATION OF OENOLOGICAL TANNINS AND IMPACT ON WINE PROPERTIES	404
POSTER N° 2037: PHENOLIC AND VOLATILE COMPOSITION OF WINE MADE FROM MUSCAT OF BORNOVA GRAPES FROM MENDERES, TURKEY.....	405
POSTER N° 2036: COMPARED OCCURRING EFFECTS OF SOME PESTICIDES AND OTHER UNCONVENTIONAL PRODUCTS ON THE MILDEWS PRESENT UPON GRAPES.....	406
POSTER N° 2035: EVALUATION OF GRAPES QUALITY AND THE WINES TYPICITY MADE FROM THE AUTOCHTHONOUS GRAPEVINE VARIETY MAMAIA, IN MURFATLAR VINEYARD	407
POSTER N° 2034: VALIDATION OF NIR METHOD FOR ALCOHOLIC STRENGTH MEASUREMENT IN ALCOHOLIC BEVERAGES: COMPARISON OF PYNOMETRIC REFERENCE METHOD	408
POSTER N° 2033: SOLVENT OPTIMIZATION FOR THE EXTRACTION OF GRAPE POLYPHENOLS BY SIMPLEX LATTICE MIXTURE DESIGN.....	410
POSTER N° 2032: RESEARCH ON INFLUENCE OF THE BUD LOAD ON THE PHENOLIC COMPOSITION OF ORGANIC GRAPES GROWN IN TWO ROMANIAN VINEYARDS.....	411
POSTER N° 2031: COMPARISON OF TDN LEVELS IN GERMAN AND AUSTRIAN RIESLING WINES	412
POSTER N° 2030: NEW INSIGHTS INTO THE ORIGIN OF SACCHAROMYCES CEREVISIAE FLOR YEASTS	414
POSTER N° 2029: DETERMINATION OF 2,4,6-TRICHLOROANISOLE BY GC-TQMS	415
POSTER N° 2042: QVEVRI WINE: ORGANIC WHITE WINE PRODUCTION FROM KETENGÖMLEK, A NATIVE VARIETY OF CAPPADOCIA-TURKEY, WITH ANCIENT WINEMAKING METHOD	416

**ECONOMY AND LAW, ECONOMÍA Y DERECHO, ECONOMIE ET DROIT,
WIRTSCHAFT UND RECHT, ECONOMIA E DIRITTO419**

POSTER N° 3005: FIVS-ABRIDGE: AN INDISPENSABLE TOOL TO PROMOTE REGULATORY COHERENCE FOR WINE 420

POSTER N° 3004: PIEDMONTESE RED WINES POSITIONING IN NORWAY 421

POSTER N° 3003: THE CONTRIBUTION OF PROPAGATING MATERIAL OF VINE PRODUCED IN ITALY TO THE DEVELOPMENT OF OTHER EU COUNTRIES VITICULTURE. 424

POSTER N° 3002: PRODUCTION OF PROPAGATING MATERIAL OF VINE IN ITALY IN 2016. 425

POSTER N° 3001: DIGITAL WINE MARKETING: A CURRENTLY TOOL FOR WINE SECTOR COMPETITIVENESS AND A WAY TO INNOVATE WINE BUSINESS MODELS 426

**ECONOMY AND LAW – WINE AND SOCIETY, ECONOMÍA Y DERECHO - VINO Y
SOCIEDAD, ECONOMIE ET DROIT – VIN ET SOCIETE, WIRTSCHAFT UND RECHT -
WEIN UND GESELLSCHAFT, ECONOMIA E DIRITTO - VINO E SOCIETÀ.....429**

POSTER N° 4010: BASIC RESEARCH ON RED WINE NEUROPROTECTIVE ACTIVE SUBSTANCES 430

POSTER N° 4002: WINE DATABASE ALGORITHM, FACILITATING CROSS WORKING PARTNERSHIP ... 430

POSTER N° 4003: ANTIOXIDANT CHARACTERISTICS AND POLYPHENOLIC PROFILE OF VARIETAL RED WINES – SLOVAK NEWLY-BRED VS. OLD VARIETIES 431

POSTER N° 4004: DETAILED PHENOLIC COMPOSITION OF THE SKIN, SEED AND STEM OF VIDAL GRAPES BY ULTRAHIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY 432

POSTER N° 4005: ANTHOCYANINS RELEASED FROM THE THIOLYSIS OF RED WINE POLYMERIC POLYPHENOLS 433

POSTER N° 4006: CONCENTRATIONS OF COMPOUNDS BENEFICIAL TO HEALTH IN THE SKINS, SEEDS AND WINES, MADE FROM THREE WHITE WINE GRAPE (VITIS VINIFERA L.) VARIETIES 434

POSTER N° 4007: ORGANOLEPTIC COMPARISON OF THE WINES OF THREE WHITE GRAPE VARIETIES WITH THE OILS OBTAINED FROM THEIR SEEDS 436

POSTER N° 4001: ANTIOXIDANT ACTIVITY, TOTAL PHENOLIC CONTENT AND TRANS-RESVERATROL CONTENTS IN GRAPE STEMS GROWN IN TURKEY 437

POSTER N° 4009: DATA ANALYSIS TECHNIQUES FOR GROUPING WINES OF DIFFERENT SUB-REGIONS OF THE VINHO VERDE REGION (DOC)	438
POSTER N° 4017: POSSIBILITY OF REDUCTION OF SULPHUR DIOXIDE CONTENT IN WINE BY BIOLOGICAL METHOD	438
POSTER N° 4011: PHYSICO-CHEMICAL AND BIOLOGICAL CHARACTERISATION OF BLACK GRAPE SEEDS OIL OBTAINED BY COLD MECHANICAL PRESSING	440
POSTER N° 4012: THE SOMMELIER – AMBASSADOR OF WINE	441
POSTER N° 4013: MONITORING OF PESTICIDE RESIDUES IN RED GRAPES IN SERBIA BY LC-MS/MS.	442
POSTER N° 4014: "PROSECCO OF PROSECCO 4.1C" OF CONEGLIANO CAMPUS 5.1C INNOVATIVE NEW GLOBAL PRODUCTION MODEL, AS WELL, FOR THE PRESERVATION, DEVELOPMENT AND ENHANCEMENT OF THE DIFFERENT HISTORICAL, CULTURAL, COLTURAL AND PRODUCTIVE "METAETHICALY 4.1C" OF VINE AND WINE, O.....	443
POSTER N° 4015: THE DIRECTION OF NEW BEVERAGES ON THE BASIS OF NON – ALCOHOLIC WINE.....	446
POSTER N° 4016: LOW-CALORIE AND FUNCTIONAL TYPE PRODUCTS OF GRAPE	447
POSTER N° 4008: COMPARATIVE RESEARCH ON THE ANTI-DIGESTION AND ANTIOXIDATION OF GRAPE SEED PROANTHOCYANIDINS WITH DIFFERENT DEGREES OF POLYMERIZATION.....	449
AUTHOR'S INDEX / ÍNDICE DE AUTORES / INDEX DES AUTEURS / AUTORENVERZEICHNIS / INDICE AUTORI	451



INDEX – ÍNDICE - INDEX - INHALT - INDICE POSTER



ORAL & SHORT COMMUNICATIONS

ORAL & SHORT COMMUNICATIONS

VITICULTURE

VITICULTURA

VITICULTURE

WEINBAU

VITICOLTURA

fuentes de variación y se comparan con una base de datos pre-existente de vinos monovarietales de *Vitis vinifera* producidos en la misma bodega, a escala semi-industrial y con técnica de vinificación similar.

POSTER N° 2021: VARIETAL THIOL PRECURSORS IN GEWÜRZTRAMINER: EFFECT OF CLONE AND GRAPE RIPENING.

2017-1548: Tomas Roman, Umberto Malossini, Loris Tonidandel, Emilio Celotti, Roberto Larcher, Maurizio Bottura, Giorgio Nicolini: *Centro di Trasferimento Tecnologico, Fondazione Edmund Mach, Italy, tomas.roman@fmach.it*

Much research has been carried out since the discovery of glutathionyl- (GSH-) and cysteinyl (Cys-) precursors of 3-mercaptohexan-1-ol (3MH) in grapes and juices (Tominaga et al., 1998; Peyrot des Gachons et al., 2002) in order to understand the origin of these precursors and optimize the technological options useful to liberate and maintain the free forms and the related fermentative compounds characterised by interesting tropical, passion fruit and grapefruit-like aroma. As few data are available about the role of these precursors in the case of Gewürztraminer (GWT; Roland Dubordieu and Tominaga 2009; Roland et al., 2010a & b; Concejero et al., 2014), an international variety native to Tramin (South-Tyrol, Italy) we investigated the effect of clone and ripening in grape samples of GWT grown in Trentino (Italy).

The juices of 7 GWT clones - ISMA-AVIT 904, 906, 916, 918 and 920R, as well as LB14 and 1101 - grown in 4 plots and harvested at the technological ripeness allowed by the very hot 2015 vintage were analysed. Moreover, GWT grapes from 6 different non-clonal vineyards sited at a altitude between 120 and 525 m a.s.l. in Trentino were analysed during the last month before harvest.

Thiol precursors were measured using an UHPLC approach with triple quadrupole mass detection according Larcher et al., (2013).

Significant differences were found between clones as regards thiol precursors concentration in 2015 grape, the 906 and 920R clones showing a higher molar concentration of the sum of GSH-3MH and Cys-3MH compared to 916. A clear and statistically significant increasing trend during ripening was observed for the cited precursors, confirming for GWT previous results observed by Kobayashi et al (2010) for Kosu.

Concejero et al. (2014). *Analytica Chimica Acta*, 812, 250–257.

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Kobayashi et al. (2010). *American Journal of Enology and Viticulture*, 61(2), 176-185.

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Peyrot des Gachons et al. (2002). *Journal of Agricultural and Food Chemistry*, 50(14), 4076-4079.

Roland et al. (2010a). *Journal of Chromatography A*, 1217(10), 1626-1635.

Roland et al. (2010b). *Food Chemistry*, 121(3), 847-855.

Tominaga (1998). *Journal of Agricultural and Food Chemistry*, 46(12), 5215-5219.

PRECURSORES DE TIOLES VARIETALES EN GEWÜRZTRAMINER: EFECTO DEL CLON Y DE LA MADURACIÓN DE LAS UVAS.

Desde el descubrimiento en las uvas y en los mostos de los precursores glutationilados (GSH-) y cisteinilados (Cys-) del 3-mercapto-haxanol (3MH; Tominaga et al., 1998; Peyrot des Gachons et al., 2002), mucha de la actividad de investigación ha estado focalizada en comprender el origen y la optimización de la tecnología adecuada para liberar y mantener las formas libres y sus derivados fermentativos, caracterizados por las interesantes notas tropicales de fruto de la pasión y pomelo. A la luz de los pocos datos disponibles relativos a la Gewürztraminer (GWT; Dubordieu and Tominaga 2009; Roland et al., 2010a & b; Concejero et al., 2014), variedad internacional originaria de Termeno (Alto Adigio, Italia), hemos explorado el efecto del clon y de la maduración en muestras de uva de esta variedad cultivadas en Trentino (Italia).

Han sido analizados mostos de 7 clones de GWT – ISMA-AVIT 904, 906, 916, 918 y 920R, LB14 y 1101 – cultivados en 4 parcelas y vendimiados con la madurez tencológica permitida por la añada 2015, particularmente calurosa. Además, durante el último mes de maduración, se ha monitorado la evolución de los precursores en 6 diferentes parcelas no clonales situadas entre los 120 y los 525 m s. n. m.

El análisis de los precursores ha sido realizado según Larcher et al., (2013) utilizando un enfoque UHPLC acoplado a un detector de masa con triple cuadrupolo.

Los clones 906 y 920R han mostrado una concentración molar de la suma de los 2 precursores significativamente mayor respecto al clon 916. Durante la maduración, se ha observado un incremento estadísticamente significativo de la suma molar de los precursores, confirmando también para GWT resultados previos de Kobayashi et al., (2010) en la variedad Kosho.

PRECURSORI DEI TIOLI VARIETALI IN GEWÜRZTRAMINER: EFFETTO DEL CLONE E DELLA MATURAZIONE DELLE UVE.

Dalla scoperta in uva e mosti dei precursori glutationilati (GSH-) e cisteinilati (Cys-) del 3-mercapto-esanolo (3MH; Tominaga et al., 1998; Peyrot des Gachons et al., 2002), molta attività di ricerca è stata realizzata per comprenderne l'origine e ottimizzare la tecnologia utile a liberare e mantenere le relative forme libere e i derivati fermentativi caratterizzati da interessanti note tropicali, da frutto della passione e pompelmo. Alla luce dei pochi dati disponibili relativamente al Gewürztraminer (GWT; Dubordieu and Tominaga 2009; Roland et al, 2010 a & b; Concejero et al., 2014), varietà internazionale originaria di Termeno/Tramin (Alto Adige, Italia), noi abbiamo indagato l'effetto del clone e della maturazione in campioni di uva di questa varietà coltivati in Trentino (Italia).

Sono state analizzate mosti di 7 cloni di GWT - ISMA-AVIT 904, 906, 916, 918 e 920R, oltre a LB14 e 1101 - coltivati in 4 appezzamenti e raccolti alla maturazione tecnologica concessa dall'annata 2015, particolarmente calda. Inoltre, nel corso dell'ultimo mese prima della raccolta è stata monitorata l'evoluzione dei precursori in 6 differenti appezzamenti non clonali siti tra i 120 e i 525 m s.l.m.

L'analisi dei precursori è stata realizzata secondo Larcher et al., (2013), seguendo un approccio in UHPLC in accoppiamento con un detector di massa a triplo quadrupolo.

I cloni 906 e 920R hanno mostrato una concentrazione molare della somma dei 2 precursori significativamente maggiore rispetto al clone 916. Durante la maturazione, si è osservato un incremento statisticamente significativo della somma molare dei precursori, confermando anche per GWT precedenti risultati di Kobayashi et al (2010) su Kosho.

POSTER N° 2020: IRRIGATION EFFECTS ON PROANTHOCYANIDIN STRUCTURE OF GRAPE SKINS AND SEEDS DURING FRUIT RIPENING

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Water regime is a major controllable factor in determining grape and wine quality in the vineyard. Purpose of the present study was to investigate the influence of irrigation on the structural characteristics of grape proanthocyanidins, which are responsible for the astringent character of red wines. For this reason skin and seed proanthocyanidins were isolated from *Vitis vinifera* cv. Syrah grapes after continuous liquid-liquid extractions and their subunits were determined by HPLC-UV. Grape samples were collected from vines submitted to contrasting water regimes under semiarid climatic conditions. Three irrigation treatments were conducted, starting at berry set through harvest of 2011 and 2012: irrigation at 100% of crop evapotranspiration ETC (FI), irrigation at 50% of ETC (DI) and non-irrigated (NI). The results showed that skin polymer size increased during ripening, while seed polymer size did not vary during ripening. Moreover, FI skins at harvest had lower mean degree of polymerization (mDP) compared to DI and NI. In contrast, NI skins showed the lower percentage of prodelphinidins (%P) in proanthocyanidin molecules. Moreover, mDP of seed extracts was higher in NI but only in 2012.

EFFETS DE L'IRRIGATION SUR LA STRUCTURE DES PROANTHOCYANIDINES DES PELLICULES ET DES PEPINS PENDANT LA MATURATION DU RAISIN

Le régime hydrique est un facteur majeur contrôlable pour la détermination de la qualité du raisin et du vin dans le vignoble. Le but de ce travail était d'étudier l'influence de l'irrigation sur les caractéristiques structurelles des proanthocyanidines du raisin, qui déterminent le caractère astringent des vins rouges. Pour cette raison, des proanthocyanidines ont été séparées des pellicules et des pépins des raisins de *Vitis vinifera* cv. Syrah par extraction liquide-liquide continue et leurs sous-unités ont été déterminées par HPLC-UV. Les échantillons de raisins ont été prélevés sur des vignes cultivées sous conditions climatiques semi-arides et soumises à trois régimes hydriques différents, de la nouaison jusqu'à la récolte de 2011 et 2012: irrigation à 100% de l'évapotranspiration réelle (ETc) (FI), irrigation à 50% de l'ETc (DI) et absence d'irrigation (NI). Les résultats ont montré que la taille des polymères des pellicules a augmenté pendant la maturation, tandis que celle des polymères des pépins a été invariable. De plus, au moment de la récolte, les pellicules des raisins FI ont présenté un degré moyen de polymérisation (mDP) plus faible comparé à celui des DI et NI. En revanche, les pellicules des raisins NI ont présenté le plus

AUTHOR'S INDEX / ÍNDICE DE AUTORES / INDEX DES AUTEURS / AUTORENVERZEICHNIS / INDICE AUTORI

<u>Acedo</u>	95	<u>Badea</u>	295
<u>Agafonova</u>	158	<u>Baer</u>	160
<u>Aguilar</u>	160	<u>Baglyas</u>	308, 310
<u>Ahmed</u>	60	<u>Bahar</u>	56
<u>Aigrain</u>	236	<u>Baicheva</u>	166, 167
<u>Akkurt</u>	471	<u>Bajnociová</u>	399
<u>Aladren</u>	414	<u>Bajul</u>	131
<u>Alba</u>	35, 86, 214	<u>Balling</u>	327, 339
<u>Alburquerque</u>	65	<u>Banović</u>	422
<u>Alço</u>	53, 56	<u>Bañuelos</u>	436
<u>Aleksiev</u>	246	<u>Barajas</u>	65, 379
<u>Alexandre</u>	162	<u>Barisone</u>	167
<u>Allebrandt</u>	21, 25, 155, 221, 275, 333, 335, 367, 428	<u>Baroja</u>	374
<u>Alonso</u>	319, 383, 401, 406, 410, 424	<u>Baroň</u>	193
<u>Altindisli</u>	98	<u>Barp</u>	387, 390
<u>Ancuta</u>	475	<u>Basalekou</u>	417
<u>Andjelkovic</u>	384	<u>Basile</u>	258, 276
<u>Andrés</u>	379	<u>Baştaş</u>	321
<u>Andrieş</u>	118	<u>Battaglene</u>	163
<u>Angelov</u>	94	<u>Battista</u>	52
<u>Anikina</u>	158	<u>Battisti</u>	390
<u>Anli</u>	128	<u>Bavaresco</u>	44
<u>Anli</u>	120, 263, 402, 404	<u>Bayram</u>	263, 402
<u>Anneliese Kretschmar</u>	155, 221, 275	<u>Beamud</u>	424
<u>Antoce</u>	150, 214, 278, 445	<u>Beauchet</u>	80, 314, 343
<u>Antonacci</u>	23, 35, 86, 99, 258, 264, 276	<u>Bechtloff</u>	445
<u>Antonenko</u>	158	<u>Bedoya</u>	110
<u>Aparicio</u>	217, 218, 219	<u>Behmand</u>	24
<u>Araujo</u>	228, 251, 293	<u>Belda</u>	95
<u>Araújo</u>	25, 138	<u>Benitez</u>	110
<u>Aroutiounian</u>	77, 164	<u>Benítez</u>	220
<u>Árpád</u>	310	<u>Benito</u>	353, 374
<u>Arranz</u>	379	<u>Benito-Arango</u>	353
<u>Artem</u>	441, 445	<u>Beraldo</u>	171
<u>Asin</u>	110	<u>Bergamini</u>	23, 86, 264, 276
<u>Ateş</u>	105, 323	<u>Bernal-Grande</u>	447
<u>Avci</u>	24, 370	<u>Bernd</u>	157
<u>Avci</u>	53	<u>Besier</u>	157
<u>Aydin</u>	271	<u>Bigard</u>	68
<u>Azevedo</u>	163	<u>Bihari</u>	327, 339
<u>Baca</u>	57	<u>Bilro</u>	421
		<u>Bobokashvili</u>	484

<u>Bódalo</u>	362, 398, 432	<u>Carroquino</u>	49, 205
<u>Bogo</u>	25, 333	<u>Casagrande</u>	41, 335
<u>Boni</u>	129	<u>Cassino</u>	273
<u>Bonin</u>	21, 25, 275, 333, 367	<u>Castellini</u>	225, 226, 227
<u>Borra</u>	209, 249, 454	<u>Castillo</u>	83, 349
<u>Borrego</u>	73	<u>Catita</u>	138
<u>Boso</u>	353, 379, 467, 470	<u>Çelik</u>	127, 323
<u>Bosso</u>	151, 273	<u>Celotti</u>	389, 391
<u>Botnarenco</u>	57	<u>Ceppi de Lecco</u>	378, 420
<u>Bottura</u>	390, 391	<u>Cerdeira</u>	415, 473
<u>Bouzdine-Chameeva</u>	255	<u>Cervera</u>	240, 252
<u>Brandes</u>	191, 425	<u>Chacón</u>	329, 379, 383, 401
<u>Brazdil</u>	473	<u>Chatzilazarou</u>	135, 136
<u>Brighenti</u>	25, 41, 155, 333, 335, 367, 428	<u>Chemin</u>	131, 300, 301, 302, 408
<u>Brkić</u>	478	<u>Cheviron</u>	319, 320
<u>Brossard</u>	123	<u>Chichua</u>	482
<u>Bruch</u>	174, 228, 251, 293	<u>Chiciuc</u>	395, 396
<u>Brugière</u>	236	<u>Chira</u>	393, 417
<u>Bruijn</u>	160	<u>Chirivella</u>	379
<u>Bustamante</u>	160	<u>Chivite</u>	70
<u>Cabaroglu</u>	396, 442	<u>Christmann</u>	189, 190, 191
<u>Cabaroglu</u>	127, 397, 438, 450	<u>Christofi</u>	416
<u>Cacic</u>	270	<u>Ciotta</u>	41
<u>Caillé</u>	196	<u>Čizmović</u>	342
<u>Calderón</u>	431	<u>Climent-López</u>	238
<u>Calisto</u>	138	<u>Clodoveo</u>	23, 141
<u>Callegaro de Menezes</u>	228	<u>Coello</u>	406
<u>Callejo</u>	436	<u>Cohen</u>	255
<u>Calugaru</u>	214	<u>Cojocar</u>	150
<u>Calvo-Iglesias</u>	353	<u>Colibaba</u>	115
<u>Canals</u>	112, 185	<u>Collins</u>	48, 93
<u>Canatar</u>	396, 450	<u>Colombo</u>	60, 295
<u>Candar</u>	56, 326, 377	<u>Compés</u>	240, 252
<u>Canossa</u>	428	<u>Conceição</u>	369
<u>Cantoral</u>	181, 362, 398, 432, 447	<u>Cordero-Bueso</u>	181, 362, 398, 447
<u>Cao</u>	282	<u>Cornea</u>	57
<u>Capece</u>	171, 175	<u>Correia</u>	145, 179, 267
<u>Caplan</u>	453	<u>Corsi</u>	255
<u>Caputo</u>	86	<u>Coşkun</u>	53
<u>Carbú</u>	362, 398, 432, 447	<u>Çoşkun</u>	56
<u>Cardone</u>	276	<u>Cosme</u>	121, 132, 267, 330
<u>Cardoso</u>	41, 335	<u>Cotan</u>	386
<u>Cargnello</u> ..	39, 40, 364, 366, 479, 480, 481, 482	<u>Cotea</u>	31, 115, 118, 119, 144, 338, 386, 475
<u>Carlos</u>	73, 398	<u>Coulon-Leroy</u>	182, 278
<u>Carlucci</u>	243	<u>Crupi</u>	23, 99, 141, 264
<u>Carmelo</u>	457, 458	<u>Cubillana-Aguilera</u>	110
<u>Carrasco-Quiroz</u>	148	<u>Cuerda</u>	431

<u>Cuevas</u>	406	<u>Ferreira</u>	25, 210, 211, 212, 369
<u>Cui</u>	465, 466, 485	<u>Fic</u>	473
<u>Dağlioğlu</u>	443	<u>Figueira</u>	421
<u>Dalmolin</u>	21, 221	<u>Filho</u>	155, 335, 367
<u>Dalvecchio</u>	209	<u>Filimon</u>	338
<u>Darici</u>	397, 442	<u>Fischer</u>	173, 445
<u>Darici</u>	396	<u>Flamini</u>	52, 387, 388
<u>Davlyatshin</u>	158	<u>Flores</u>	83, 169, 349
<u>De Bei</u>	48, 93	<u>Foceá</u>	119
<u>De Bem</u>	21, 25, 155, 221, 275, 333, 367, 428	<u>Fontes</u> ,	103, 138, 421
<u>Demirkeser</u>	318	<u>Forleo</u>	276
<u>Derdak</u>	30	<u>Fort</u>	112, 168, 185, 372
<u>Deveijan</u>	164	<u>Fraga</u>	97, 103, 104, 105
<u>Di Lorenzo</u>	295	<u>Franc</u>	12, 21, 22, 176, 333, 334
<u>Díaz-Varela</u>	353	<u>Franco</u>	414, 426
<u>Diego</u>	146, 147, 372, 374	<u>Fresno</u>	95, 431, 435
<u>Dienes-Nagy</u>	170	<u>Frigerio</u>	295
<u>Diesler</u>	173	<u>Froehlich</u>	157
<u>Dilli</u>	361	<u>Fuentes</u>	48
<u>Dipalmo</u>	23, 141	<u>Fukumura</u>	189
<u>Domingo</u>	319, 379	<u>Furdíková</u>	399, 464
<u>Domínguez</u>	374	<u>Gabriel</u>	21, 144, 221
<u>Dourtoglou</u>	135, 136	<u>Gago</u>	353, 379, 467, 470
<u>Drosou</u>	135, 136	<u>Gal</u>	202
<u>Dündar</u>	126, 262, 463	<u>Galan</u>	259
<u>Đurčanská</u>	399, 464	<u>Galluzzo</u>	259
<u>Đurković</u>	422	<u>Gamboá</u>	33, 148
<u>Durner</u>	173	<u>Ganin</u>	158
<u>Eder</u>	134, 137, 191, 192, 193, 425, 445	<u>García</u>	49, 205, 329, 372, 374, 383, 401, 406, 410
<u>Egorov</u>	158	<u>García-Casarejos</u>	49, 205
<u>Eiras-Dias</u>	97	<u>García-Ramos</u>	49
<u>Elekcioglu</u>	24	<u>Garde-Cerdán</u>	33, 34, 35, 148
<u>Éles</u>	327	<u>Gardiman</u>	457, 458
<u>Er</u> 346, 347, 357		<u>Gargallo</u>	49, 205
<u>Er</u>	347	<u>Garrido</u>	362, 398, 432, 447
<u>Ergönül</u>	328, 356	<u>Gasparro</u>	86
<u>Erotokritou</u>	90	<u>Gautier</u>	75
<u>Erten</u>	127	<u>Gazivoda</u>	342
<u>Escott</u>	431, 435	<u>Genghi</u>	35, 99
<u>Escudier</u>	68, 69, 70	<u>Genisheva</u>	415
<u>Esteban-Rodríguez</u>	238	<u>Gerbaud</u>	131
<u>Esteras</u>	30	<u>Gherghel</u>	475
<u>Eyzaguirre</u>	220	<u>Ghidossi</u>	116, 408
<u>Fauhl-Hassek</u>	197	<u>Gilliam</u>	48
<u>Favier</u>	259	<u>Gillino</u>	413
<u>Felgueiras</u>	473	<u>Gisem</u>	311
<u>Fernández-Morales</u>	362, 398, 432		

<u>Goginava</u>	482	<u>Ingrassia</u>	110
<u>Gök</u>	445, 446, 447	<u>Íñiguez</u>	371
<u>Golombek</u>	173	<u>Irakleous</u>	82
<u>Gombau</u>	185	<u>Irimia</u>	31
<u>Gómez</u> ...87, 220, 297, 329, 383, 401, 406, 410, 424		<u>Izquierdo</u>	329, 383, 401, 406, 410
<u>Gómez-Miguel</u>	87, 297	<u>Jaksic</u>	348
<u>Gonzalez</u>	436	<u>James</u>	48, 93
<u>González</u>33, 34, 35, 87, 112, 179, 180, 181, 297, 362, 398, 406, 424		<u>Jankura</u>	325, 449
<u>Gonzalez-Centeno</u>	437	<u>Jordão</u>	179, 180, 181, 267, 330
<u>González-Rodríguez</u>	362, 398, 432, 447	<u>Jorge</u>	132
<u>González-Royo</u>	112	<u>José M. Heras</u>	185
<u>González-Santamaría</u>	33	<u>Jourdes</u>	437
<u>Graça</u>	138	<u>Jourjon</u> ...80, 203, 242, 278, 291, 292, 314, 343	
<u>Graça</u>	103, 138	<u>Jovanovic-Cvetkovic</u>	42
<u>Graça</u>	421	<u>Jug</u>	129
<u>Green</u>	311, 312, 369	<u>Junqua</u>	116
<u>Grigorica</u>	144	<u>Kakiuchi</u>	189
<u>Grigoryan</u>	45	<u>Kallithraka</u> ...195, 196, 392, 393, 405, 412, 416, 417	
<u>Grijalba</u>	187	<u>Kamiloglu</u>	318
<u>Guaita</u>	151, 273	<u>Karabat</u>	224, 271, 361
<u>Guguchkina</u>	158	<u>Karaoglan</u> ,.....	438
<u>Guilloux-Benatier</u>	162	<u>Katsitadze</u>	482
<u>Gülcü</u>	53, 443	<u>Keichinger</u>	287
<u>Gunduz</u>	53	<u>Kelebek</u>	438
<u>Guyon</u>	165	<u>Khachidze</u>	484
<u>Hadjistylli</u>	90	<u>Kidman</u>	93
<u>Hakobyan</u>	45	<u>Kismarjai</u>	233
<u>Hanf</u>	235	<u>Kljusuric</u>	270
<u>Hann</u>	425	<u>Kneip</u>	327
<u>Hannin</u>	236	<u>Kodžulović</u> :.....	342
<u>Hausmann</u>	77	<u>Koestel</u>	170
<u>Heintz</u>	153	<u>Kohser</u>	314
<u>Hepp</u>	281	<u>Kolek</u>	449
<u>Heras</u>	112	<u>Kolesnov</u>	158
<u>Herbin</u>	75	<u>Koller</u>	359
<u>Hermosín</u>	329, 383, 401	<u>Korntheuer</u>	137
<u>Hermosín-Gutiérrez</u>	424	<u>Köse</u>	323
<u>Hernandes</u> ,	38	<u>Košmerl</u>	129
<u>Hernandez</u>	336	<u>Kotseridis</u>	392, 393, 405, 412, 416, 417
<u>Hinojo-Sánchez</u>	353	<u>Koundouras</u>	392
<u>Hodson</u>	163	<u>Kraft</u>	157
<u>Hook</u>	48	<u>Kretzschmar</u>	21
<u>Hulot</u>	153	<u>Kubáň</u>	473
<u>Iñaki</u>	70	<u>Kucherenko</u>	311
<u>İnce</u>	404	<u>Ky300, 301, 302</u>	
		<u>Kyotani</u>	189

<u>Kyraleou</u>	392, 393, 405	<u>MARCHI</u>	167
<u>La Rosa</u>	166	<u>Mardones</u>	160
<u>Lacampagne</u>	408	<u>Marković</u>	316
<u>Lakatosova</u>	449	<u>Maroto</u>	406
<u>Lakatošová</u>	325	<u>Marquina</u>	319
<u>Lanati</u>	166, 167	<u>Marsan</u>	408
<u>Larcher</u>	387	<u>Marsico</u>	99, 276
<u>Larosa</u>	167	<u>Martín</u>	372, 374
<u>Lastincová</u>	435	<u>Martinez</u>	332
<u>Lazić</u>	478	<u>Martínez</u>	103, 104, 105, 148, 160, 329, 353, 372, 374, 379, 380, 383, 401, 467, 470
<u>Lazzari</u>	454	<u>Martínez-Gil</u>	148
<u>Leder</u>	422, 423	<u>Martins</u>	473
<u>Lempereur</u>	75	<u>Massaglia</u>	209, 249, 454
<u>Lesefko</u>	93	<u>Massot</u>	176
<u>Li</u> 465, 466, 485		<u>Maul</u>	77, 78
<u>Litskas</u>	82	<u>Mauracher</u>	225
<u>Lockshin</u>	255	<u>Maurý</u>	278
<u>Loira</u>	184, 345, 346, 431, 435, 436	<u>Mazza</u>	166
<u>Lombardi</u>	171	<u>Medina</u>	65, 67, 112, 187, 332, 333
<u>Longin</u>	162	<u>Medina-Trujillo</u>	112
<u>Loose</u>	91, 234, 255	<u>Melanashvili</u>	484
<u>Lopes</u>	73, 138	<u>Meléndez</u>	371
<u>López</u>	30, 33, 34, 35, 83, 349, 371, 372, 374	<u>Melero</u>	110, 220
<u>López-Lluch</u>	30	<u>Melyan</u>	77, 164
<u>Lorenzini</u>	170	<u>Mena</u>	329, 379, 383, 401, 410
<u>Lovat</u>	52	<u>Mendez</u>	420
<u>Loyola</u>	160	<u>Mengyu</u>	463
<u>Lozano</u>	179	<u>Merlino</u>	209, 249
<u>Luca</u>	477	<u>Merot</u>	28
<u>Luchian</u>	118, 119	<u>Metafa</u>	412
<u>Lucini</u>	44	<u>Meunier</u>	176
<u>Lukajić</u>	124	<u>Mietton-Peuchot</u>	116, 176, 408
<u>Luo</u>	465, 466, 485	<u>Mihaj</u>	31, 119, 475
<u>Maghradze</u>	78, 181	<u>Mihaylov</u>	94
<u>Mahmoudzadeh</u>	102	<u>Mikeš</u>	473
<u>Malacarne</u>	387, 390	<u>Miljić</u>	124, 418
<u>Malafosse</u>	252	<u>Miranda</u>	73
<u>Malheiro</u>	97, 103, 105, 369	<u>Mirik</u>	357
<u>Malićanin</u>	194	<u>Modesto</u>	38
<u>Malli</u>	273	<u>Monteiro</u>	73, 145
<u>Malliaris</u>	416	<u>Monteserín-González</u>	353
<u>Malossini</u>	391	<u>Morata</u>	431, 435, 436
<u>Mandl</u>	134, 137	<u>Moreiro</u>	63
<u>Mandoulaki</u>	90	<u>Moreno-Simunovic</u>	148
<u>Manku</u>	227	<u>Moretti Ferreira Pinto</u>	25
<u>Maras</u>	342	<u>Moroşanu</u>	115
<u>Marchi</u>	166		

<u>Moskova</u>	366	<u>Panagou</u>	416
<u>Motta</u>	151	<u>Pandeliev</u>	94
<u>Moura</u>	38, 251	<u>Panero</u>	151, 273
<u>Moutinho-Pereira</u>	97	<u>Panighel</u>	52
<u>Mugoša</u>	342	<u>Pappas</u>	417
<u>Muljukina</u>	307	<u>Pasa</u>	41, 335
<u>Muñoz</u>	379, 447	<u>Pascual</u>	185
<u>Murdjeva Ivana</u>	284	<u>Pastor</u>	217, 218, 219, 295
<u>Muzalevski</u>	124	<u>Pati</u>	141
<u>Nakov</u>	100	<u>Patriche</u>	31
<u>Nakova</u>	100	<u>Patzl-Fischerleitner</u>	134, 137, 191, 425
<u>Nardone</u>	243	<u>Pecheyran</u>	187
<u>Nauer</u>	425	<u>Pecile</u>	457, 458
<u>Navacués,</u>	319	<u>Pére</u>	379
<u>Navarro</u>	112, 383, 401, 410	<u>Pérez</u>	179, 180, 181, 329, 378, 383, 401, 410
<u>Nebish</u>	77	<u>Perišić</u>	342
<u>Nechita</u>	144, 386	<u>Perniola</u>	23, 35, 86, 99, 258, 264, 276
<u>Nicolini</u>	387, 389, 390, 391	<u>Perovic</u>	348
<u>Niculaua</u>	115, 118, 119, 144, 338, 386	<u>Petitgonnet</u>	162
<u>Nikoli</u>	417	<u>Petric</u>	422, 423
<u>Nikolić</u>	42	<u>Petropoulos</u>	412
<u>Nistor</u>	144, 386	<u>Petrovic</u>	232
<u>Nogueira</u>	421	<u>Petrović</u>	42
<u>Ntokos</u>	405	<u>Petrozziello</u>	151
<u>Nunes</u>	121, 132, 267	<u>Philipp</u>	191, 445
<u>Nuñez</u>	169	<u>Photiadou</u>	103
<u>Ocal</u>	370	<u>Picó</u>	30
<u>Ochssner</u>	77	<u>Pietrafesa</u>	175
<u>Odageriu</u>	118	<u>Pilloni</u>	223
<u>Odăgeriu</u>	119	<u>Pinto</u>	86, 87, 121, 138, 251
<u>Ojeda</u>	68	<u>Pölös</u>	308
<u>Olga</u>	138, 185	<u>Pons-Mercadé</u>	185
<u>Oliveira</u>	138, 415, 421	<u>Popov</u>	94
<u>Orgiu</u>	295	<u>Porto</u>	73, 74, 133, 134, 138, 146, 147, 473
<u>Ortega</u>	95	<u>Portu</u>	33, 34, 35
<u>Ortiz:</u>	217	<u>Prah</u>	158
<u>Ortiz-Julien</u>	185	<u>Prinz</u>	134, 137
<u>Outemane</u>	155, 428	<u>Prior</u>	387, 388, 390, 391, 421
<u>Ouyang</u>	93	<u>Protas</u>	230
<u>Özalp</u>	328, 356	<u>Proxenia</u>	393, 405, 416
<u>Özer</u>	53, 328, 356	<u>Pržić</u>	316
<u>Ozturk</u>	24, 128, 355, 370	<u>Pszczółkowski</u>	378, 420
<u>Öztürk</u>	53, 263	<u>Puig-Pujol</u>	379
<u>Ožvold</u>	464	<u>Puras</u>	371
<u>Palacios</u>	95	<u>Puškaš</u>	124, 418
<u>Palacios-Santander</u>	110	<u>Rabadán</u>	424
<u>Palomero</u>	436	<u>Rabagliato</u>	408

<u>Rabolin-Meinrad</u>	59	<u>Roza</u>	473
<u>Rabutti</u>	167	<u>Rubinos-Román</u>	353
<u>Radojević</u>	42	<u>Rubio</u>	379
<u>Radonjić</u>	342	<u>Rüdiger</u>	235
<u>Radovanovic</u>	232, 384	<u>Rufato</u>	21, 155, 221, 275, 333, 335, 367, 428
<u>Rakić</u>	194	<u>Ruiz</u>	30, 447
<u>Ramírez</u>	426	<u>Saba</u>	223
<u>Ranca</u>	441, 445	<u>Sadoudi</u>	413
<u>Rankova</u>	366	<u>Safner</u>	422, 423
<u>Rankovic</u>	384	<u>Salagoity</u>	165
<u>Ranković-Vasić</u>	42	<u>Salmon</u>	196
<u>Rasines-Perea</u>	300	<u>Samson</u>	45, 46, 47, 48, 68, 196
<u>Razvan</u>	338, 475	<u>Sánchez-Palomo</u>	424
<u>Rebenaque</u>	278	<u>SanJosé</u>	87, 179, 180, 181, 297
<u>Regner</u>	191	<u>Santamaría</u>	33, 34, 35, 379
<u>Reinehr</u>	221, 275, 333, 428	<u>Santeramo</u>	243
<u>Reis</u>	473	<u>Santesteban</u>	379
<u>Renaud-Gentié</u>	80, 343	<u>Santiago</u>	226, 227, 353, 467, 470
<u>Resitca</u>	477	<u>Santos</u>	38, 97, 103, 104, 105, 319
<u>Restani</u>	295	<u>Sarnari</u>	243
<u>Restrepo</u>	430	<u>Savin</u>	57
<u>Revel</u>	176, 192, 193	<u>Schamel</u>	202, 203, 247
<u>Ribeiro</u>	73, 121	<u>Scharfenberger-Schmeer</u>	173
<u>Richter</u> ...	91, 134, 137, 373, 374, 457, 458, 459	<u>Schmitt</u>	146, 147, 177, 178, 189, 190, 191
<u>Riquier</u>	176	<u>Schuetz</u>	153
<u>Roberto</u>	60, 181, 389, 390, 391	<u>Schvarczova</u>	400, 449
<u>Roccotelli</u>	35, 86	<u>Schvarczová</u>	325
<u>Rocha</u>	38, 73	<u>Sculli</u>	86
<u>Rocha de Souza</u>	38	<u>Seccia</u>	243, 279, 280
<u>Rochard</u>	61, 142, 289	<u>Seckin</u>	326
<u>Rodriguez</u>	110, 225, 226	<u>Sergides</u>	90
<u>Rodríguez</u>	353, 467, 470	<u>Serpaggi</u>	413
<u>Rodríguez-Canas</u>	353	<u>Serra</u> ..	21, 22, 83, 160, 210, 211, 212, 230, 231, 349
<u>Roman</u>	289, 387, 390, 391	<u>Shahab</u>	60
<u>Román</u>	389	<u>Shapatava</u>	482, 484
<u>Romaniello</u>	171	<u>Sieczkowski</u>	112, 194, 195, 196
<u>Romano</u>	38, 171, 175	<u>Siesto</u>	175
<u>Romieu</u>	68	<u>Silva</u>	38, 228, 251, 293
<u>Rosca</u>	31	<u>Silveira</u>	73
<u>Rossmann</u>	91	<u>Silvestre</u>	97
<u>Rösti</u>	170	<u>Šimon</u>	422, 423
<u>Rotaru</u>	338	<u>Sivcev</u>	384
<u>Rotinberg</u>	475	<u>Sivčev</u>	42, 478
<u>Rousseaux</u>	162	<u>Sivri</u>	346, 347, 355, 357, 370
<u>Roussis</u>	415	<u>Sobe</u>	157
<u>Roycheva</u>	246	<u>Sochor</u>	193
<u>Royo</u>	112, 379		

<u>Soltekin</u>	98	<u>Trifunović</u>	478
<u>Sotés</u>	87, 297	<u>Troiano</u>	225
<u>Souza</u>	60, 174	<u>Tsimbalaev</u>	158
<u>Söylemezoğlu</u>	471	<u>Tsolakis</u>	273
<u>Špáňik</u>	399	<u>Tudor</u>	445
<u>Spraul</u>	153	<u>Tutulescu</u>	440
<u>Stavrinides</u>	82, 90	<u>Tyerman</u>	48
<u>Stedile</u>	387	<u>Tzortzakis</u>	82
<u>Stein-Hammer</u>	281	<u>Ueno</u>	189
<u>Stockley</u>	303	<u>Unceta</u>	187
<u>Suárez-Lepe</u>	431, 435, 436	<u>Urrestarazu</u>	379
<u>Sun</u>	465, 466, 485	<u>Urtubia</u>	426, 430
<u>Suo</u>	465, 466	<u>Uysal</u>	105, 224, 326, 328, 356, 377
<u>Symoneaux</u>	242, 278	<u>Valencia</u>	253, 254, 426
<u>Szolnoki</u>	234, 255, 281	<u>Valingot</u>	413
<u>Tahmaz</u>	471	<u>van der Schrier</u>	103
<u>Tamiris Canossa</u>	21, 221, 275	<u>Vaquero</u>	436
<u>Tangolar</u>	321, 322	<u>Vardanyan</u>	164
<u>Tarantilis</u>	417	<u>Vecchio</u>	203, 204, 205, 291
<u>Tartian</u>	115	<u>Velenosi</u>	258, 264, 276
<u>Tartian,</u>	115, 386	<u>Verdi</u>	207, 213
<u>Taseri</u>	326	<u>Vergara</u>	160
<u>Taveira</u>	170	<u>Viana</u>	215, 459
<u>Teissedre</u>	300, 392, 393, 417, 437	<u>Vibertj</u>	249
<u>Teixeira</u>	415	<u>Vicente</u>	65, 87, 297, 332
<u>Teker</u>	324	<u>Viceto</u>	73
<u>Tešević</u>	316	<u>Vidal</u>	17, 196, 217, 218, 219, 465, 466
<u>Tesfaye</u>	435, 436	<u>Vieira</u>	110, 251, 421
<u>Teychene</u>	131	<u>Vignault</u>	437
<u>Theodorou</u>	392	<u>Vilela</u>	132, 145
<u>Theres</u>	91	<u>Viñas</u>	424
<u>Thiollet-Scholtus</u>	28, 80, 287, 343	<u>Vinsonneau</u>	116
<u>Tislinscaia</u>	408	<u>Vochita</u>	475
<u>Tityanov</u>	100, 366	<u>Vogiatzakis</u>	90
<u>Todić</u>	316	<u>Vojnich</u>	308, 310
<u>Toepfer</u>	77	<u>Vujadinovic</u>	348
<u>Tomasi</u>	52, 387, 388	<u>Vujadinović</u>	316
<u>Tomášková</u>	193	<u>Vukovic</u>	348
<u>Tomková</u>	193	<u>Vuković</u>	316, 478
<u>Tonidandel,</u>	389, 391	<u>Vural</u>	404
<u>Töpfer</u>	77, 78, 91	<u>Wang</u>	93, 282, 301, 302, 303
<u>Torregrosa</u>	68, 69, 70	<u>Ward</u>	73
<u>Torun</u>	321	<u>Wendelin</u>	134
<u>Tóth</u>	327	<u>Weninger</u>	157
<u>Townley</u>	83, 349	<u>Wilkes</u>	163
<u>Trchounian</u>	45	<u>Winterhalter</u>	445, 446, 447
<u>Treton</u>	314	<u>Wolikow</u>	300

<u>Wurz</u>	21, 25, 155, 221, 275, 333, 367, 428	<u>Zamfir</u>	115, 118, 119
<u>Würz</u>	335	<u>Zamora</u>	112, 185, 437
<u>Xenophontos</u>	90	<u>Zavaglia</u>	457, 458
<u>Yago</u>	49	<u>Žembeová</u>	464
<u>Yang</u>	135, 136	<u>Zeng</u>	255, 408
<u>Yaşasin</u>	56, 377	<u>Zenina</u>	158
<u>Yaşasin</u>	341	<u>Zhang</u>	466
<u>Yıldırım</u>	126, 262, 463	<u>Zhou</u>	485
<u>Yuste</u>	65, 332	<u>Zotos</u>	90
<u>Zamboni</u>	44	<u>Zsigrai</u>	327, 339
<u>Zambuto</u>	171	<u>Zyprian</u>	91