Cartographie des acteurs Vigne & Vin (V&V) à l'aide de la bibliométrie

Dominique Fournier

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Bibliométrie

Définition

- « l'application des mathématiques et des méthodes statistiques aux livres, articles et autres moyens de communication » (Pritchard, 1969)

- « Analyse quantitative de l'activité et des réseaux scientifiques » (Source Wikipedia)
  - volet cognitif en interaction avec des disciplines qui étudient les communautés scientifiques comme objet d'étude (sociologie des sciences, histoire des sciences, épistémologie) et les sciences de l'information
  - volet opérationnel, en liaison avec l'évaluation et le positionnement des acteurs

Analyses bibliométriques

- Publications scientifiques (institutions, thématiques)
  - année, supports de publication, auteurs (+ affiliations)
  - citations (mesure de l'impact scientifique)
- Analyse quantitative (compte de présence)
- Analyse qualitative
  - qualité des supports de publications (FI, notoriété, …)
  - mesure de l'impact / autres publications (même revue ou thématique et année)
- Analyse des partenaires via les adresses des co-auteurs (réseau)
- Benchmarking = positionnement / autres structures

Outils pour la bibliométrie

- Sources d'informations (bases bibliographiques structurées)
  - Web of Science™ (index de citations)
  - Scopus (index de citations) pas d'abonnement à l'Inra
  - HAL (diversité des productions)
- Indicateurs sur les revues
  - JCR (facteurs d'impact)
  - Noria (notoriété des revues)
- Indicateurs sur l'impact
  - InCites (plateforme d'évaluation basée sur Web of Science)
  - SciVal (plateforme d'évaluation basée sur Scopus)
  - ESI Essential Science Indicators
  - Noria (enrichissement de corpus, nb de citations → tops de citations)

Sources de données

- **Web of Science™** (Clarivate Analytics)
  - base bibliographique internationale et multidisciplinaire
  - index de citations
  - + de 250 thématiques (WoS Categories)
  - adresses de tous les auteurs
  - unification partielle des noms des institutions (organization enhanced)
- **InCites** (Clarivate Analytics)
  - plateforme d'évaluation basée sur le Web of Science (décalage 1-2 mois)

Exemple de publication scientifique

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

Article

pubs.acs.org/JAFC

Effects of Vine Water Status on Dimethyl Sulfur Potential, Ammonium, and Amino Acid Contents in Grenache Noir Grapes (*Vitis vinifera*)

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ABSTRACT: We studied the effect of vine water status on the dimethyl sulfur potential (DMSP), ammonium, and amino acid contents of the berry during the maturation of Grenache Noir grapes. Water deficit increased the accumulation of amino acids in berries and favored yeast assimilable amino nitrogen. Similarly, ammonium content was higher in berries from vines subjected to moderate water deficit. DMSP content followed the same trend as yeast assimilable amino acid content, with higher concentrations observed in the berries of vines subjected to water deficit. The high DMSP and yeast assimilable nitrogen contents of musts from vines subjected to water deficit resulted in a better preservation of DMSP during winemaking. The wines produced from these musts had a higher DMSP level and would therefore probably have a higher aroma shelf life, because the DMSP determines the rate of release of dimethyl sulfur during wine storage, and this compound enhances fruity notes.

KEYWORDS: *Vitis vinifera, Grenache Noir, water deficit, dimethyl sulfur potential, yeast assimilable nitrogen, ammonium*

■ AUTHOR INFORMATION

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Notes

The authors declare no competing financial interest.

Valeur ajoutée du Web of Science

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Organization-Enhanced Name(s)

Institut National de la Recherche Agronomique (INRA)

Montpellier SupAgro

Unification des noms des institutions

Impact de l'article

Citation Network

In Web of Science Core Collection

5

Times Cited

Abstract

Keywords

Author Keywords: Vitis vinifera; Grenache Noir; water deficit; dimethyl sulfur potential; yeast assimilable nitrogen; ammonium

KeyWords Plus: WINE FERMENTATION; RED WINES; SULFIDE; AROMA; NUTRITION; QUALITY; DEFICIT; STRESS; PLANTS

Categories / Classification

Classement thématique des revues

Research Areas: Agriculture; Chemistry; Food Science & Technology

Web of Science Categories: Agriculture, Multidisciplinary; Chemistry, Applied; Food Science & Technology

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

Volume: 62 **Issue:** 13 **Pages:** 2760-2766

Qualité des supports

Impact Factor

3.412	3.791
2017	*5 year*

JCR ® Category	*Rank in Category*	*Quartile in Category*
AGRICULTURE, MULTIDISCIPLINARY	2 of 57	Q1
CHEMISTRY, APPLIED	17 of 72	Q1
FOOD SCIENCE & TECHNOLOGY	18 of 133	Q1

Méthodologie

Choix des mots-clés et expressions

- À partir des mots-clés des publications majeures sur le sujet (ou utilisés par les auteurs d'une unité « cœur »)
- Complété par les experts du domaine
- Identification de faux-amis
  - Grape fruit; grape tomato
  - Fruit wine; rice wine
  - Grape like
  - Kiwifruit vine; invasive vine
  - Vine copula; canonical vine

Principaux mots-clés UMR SPO	Nb. cit.
wine	46
Saccharomyces cerevisiae	17
Fermentation	14
wine fermentation	14
polysaccharides	13
yeast	13
Nitrogen	12
oligosaccharides	12
Polyphenols	12
Vitis vinifera	12
Alcoholic fermentation	10
Aroma	10

Principaux mots-clés UMR AGAP (équipe DAAV)	Nb. cit.
Grapevine	28
Vitis vinifera	25
Vitis vinifera L.	13
microsatellites	7
Vitis	7
Domestication	6
Genetic diversity	6
QTL	6
SSR	6
Grape	5

Méthodologie 1/2

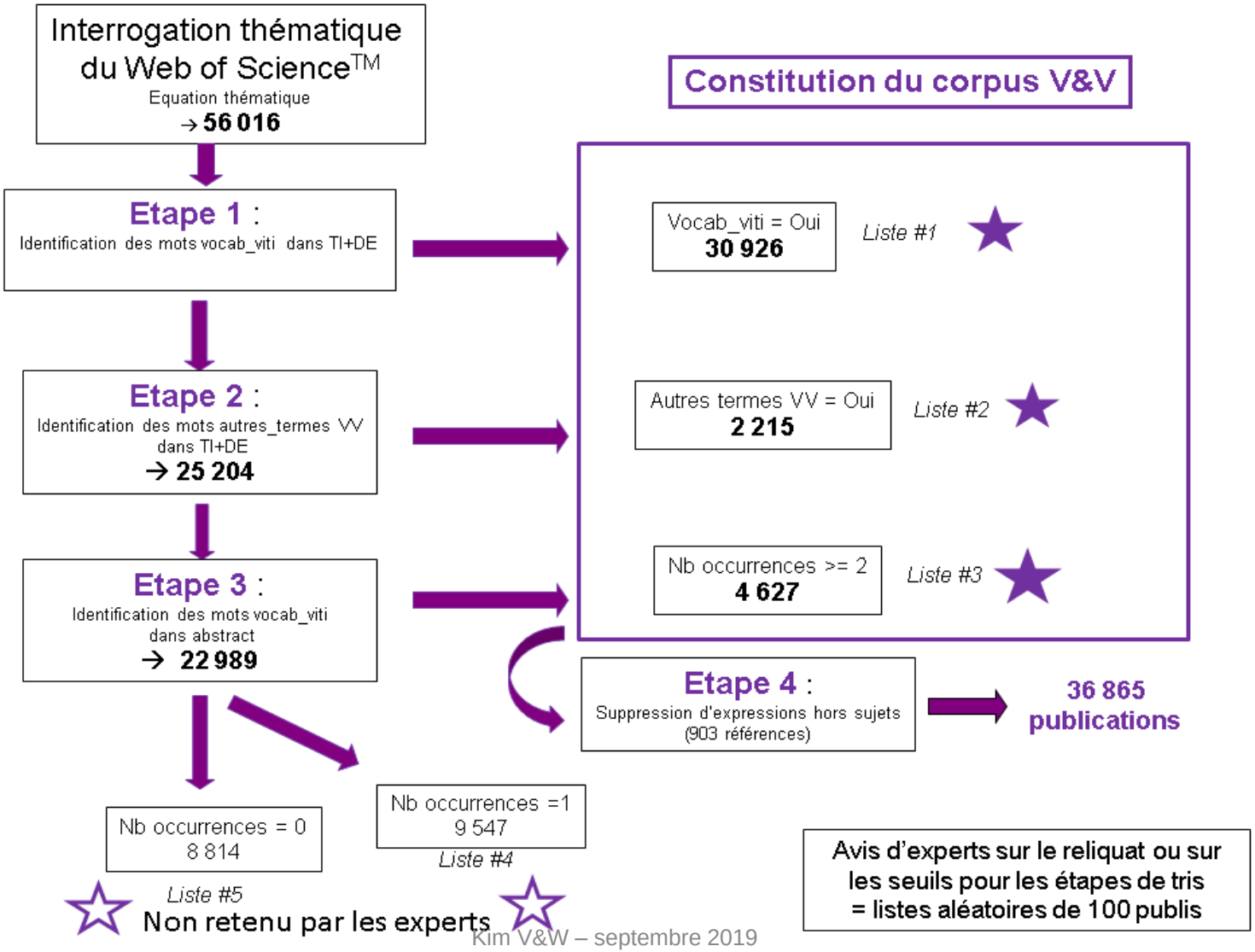
La méthodologie est identique à celle des 2 études précédentes :

- Une étude bibliométrique sur les publications mondiales « vigne et le vin » a été réalisée par MV Tatry (Inra), D Fournier (Inra) et C Moulliet (IFV) sur la période 1999-2008 http://prodinra.inra.fr/record/34572. Elle a permis d'identifier les principaux pays et institutions publiant dans le secteurs viti-vinicoles et les collaborations qui se traduisent sous forme de co-publications.
- Une étude réalisée sur la période 2008-2012 a permis d'apporter un éclairage sur le dispositif vigne et vin (V&V) de l'Inra, organisé autour des 3 centres Inra Bordeaux-Aquitaine, Colmar et Montpellier. https://prodinra.inra.fr/record/256989

Interrogation du Web of Science / Article, Review, Proceeding Papers et Letter

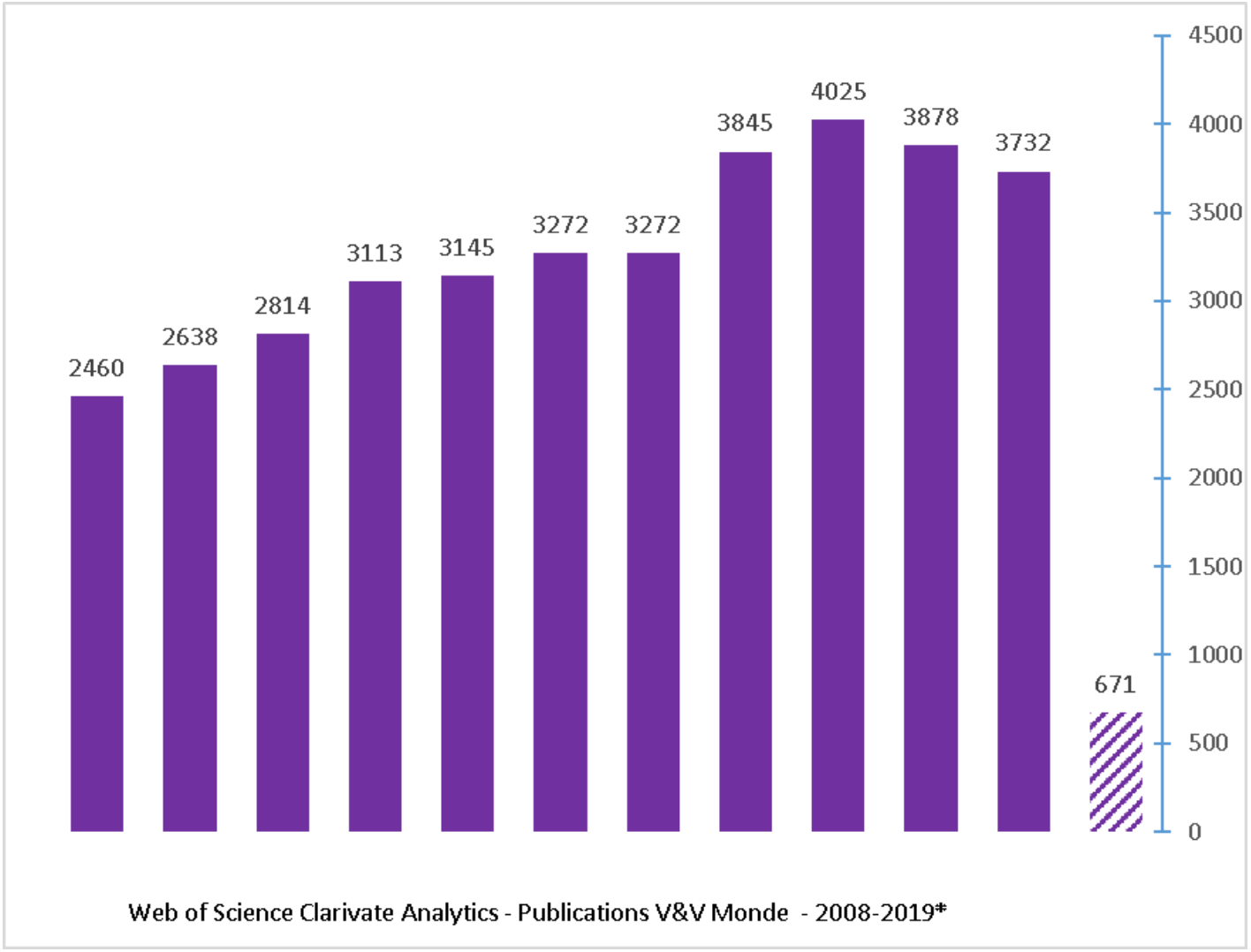
TS=((viticult* or vinicult* or vitivini* or oenolog* or enolog* or winemaking or winery or wineries or vitis or "V. vinifera" or viticol*)
OR
((wine or wines) not ("port wine stain*" or "port wine stain*" or "port wine lesion*" or "port wine birthmark*" or "palm wine*" or "wine glass mode" or "wine haven" or ("old Wine" near/3 ("new bottle*" or "new glass*" or "old glass*" or "new tube*")) or ("new wine" near/3 "old bottle*")))
OR
(((grape or grapes or grapevine*) not ("ray grape*" or "grapes 3" or "sour grape*" or "grape project")) or (vineyard* not ("martha vineyard" or "vineyard peach*")) or ((vineland or vinelands) not ((vineland adapt* behavio* scale*) or "Vineland Training Schol"))) OR ((vine or vines) not ("vine deloria"))
OR
(raisin or raisins or brandy or brandies or cooperage or ((barrel* or cask*) near/3 (oak*))))

Méthodologie 2/2

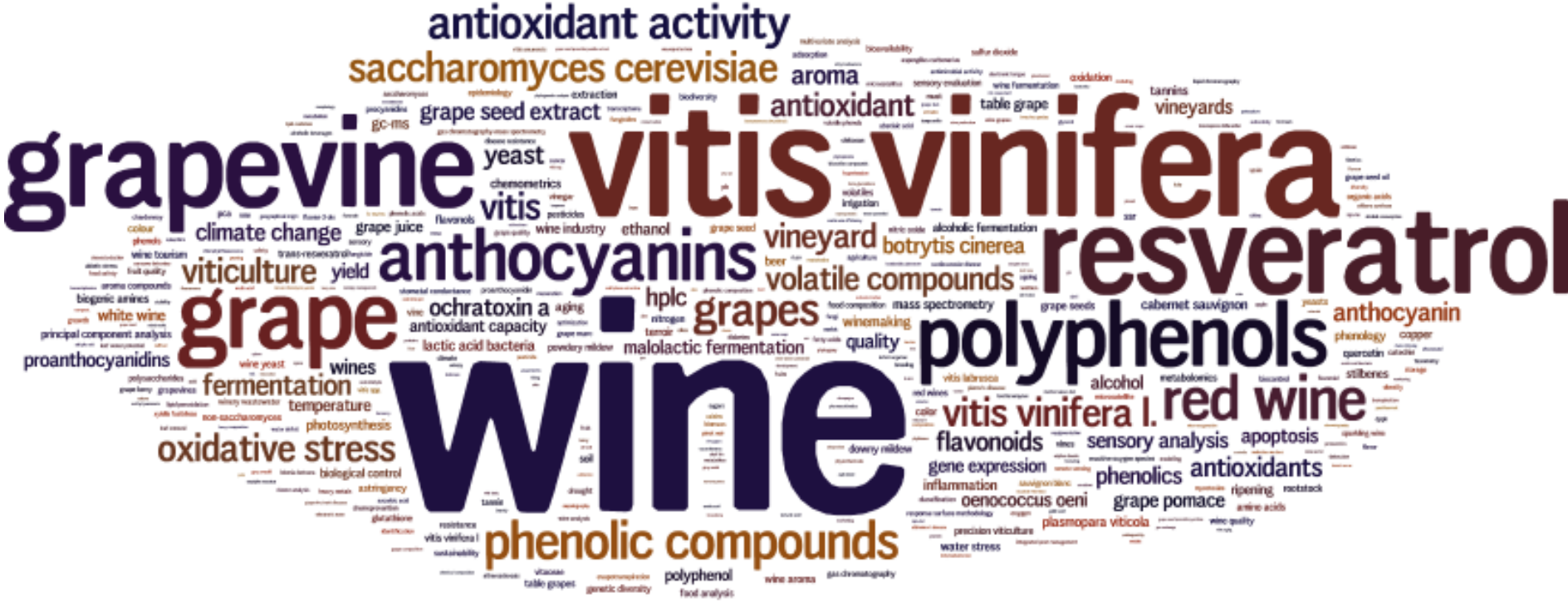


Résultats Monde

Evolution du nb de publications V&V

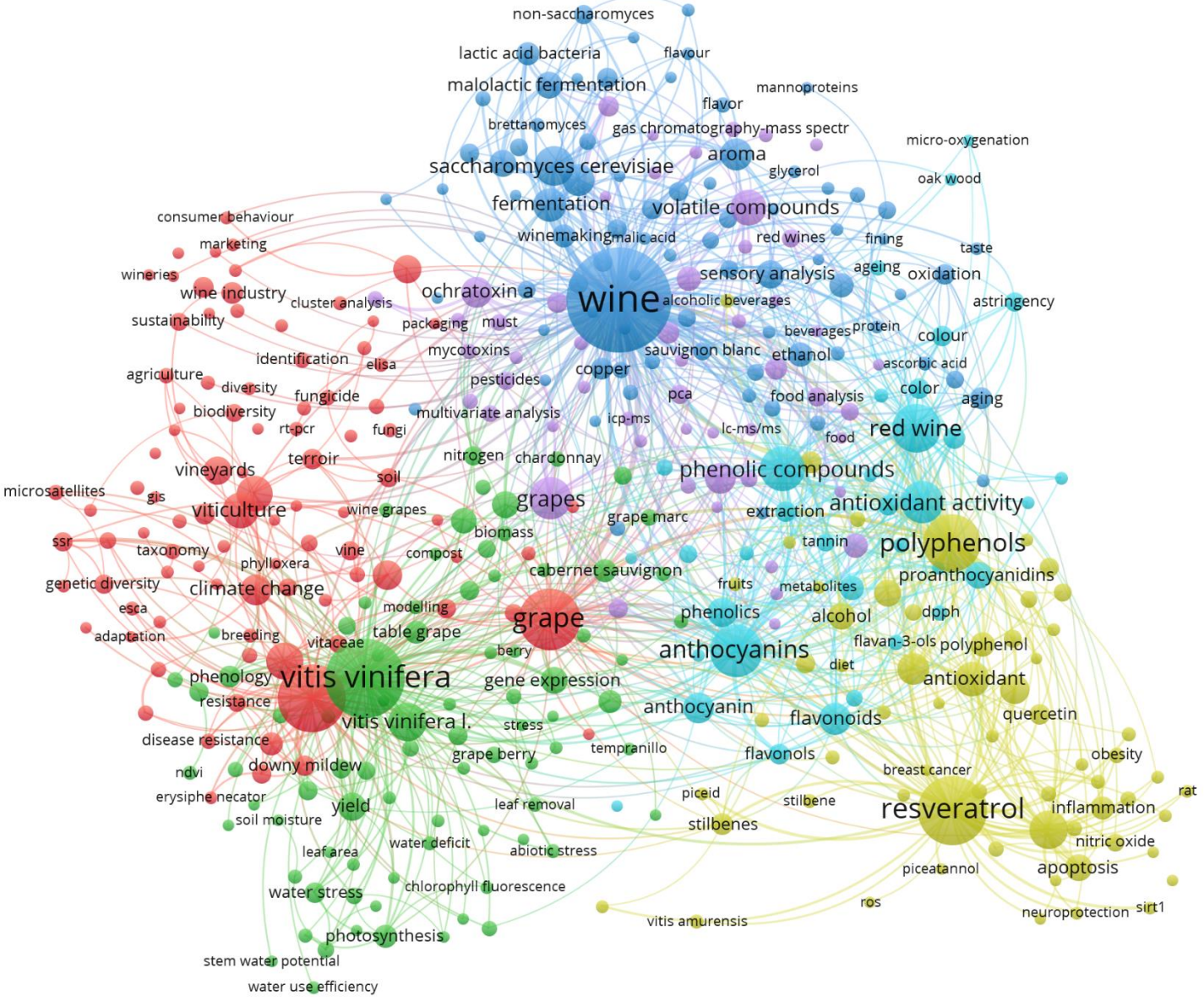


Mots-clés



Réalisé avec Wordle.com
Principaux mots-clés (seuil > 40 occurrences)

Réseau de co-occurrences de mots-clés



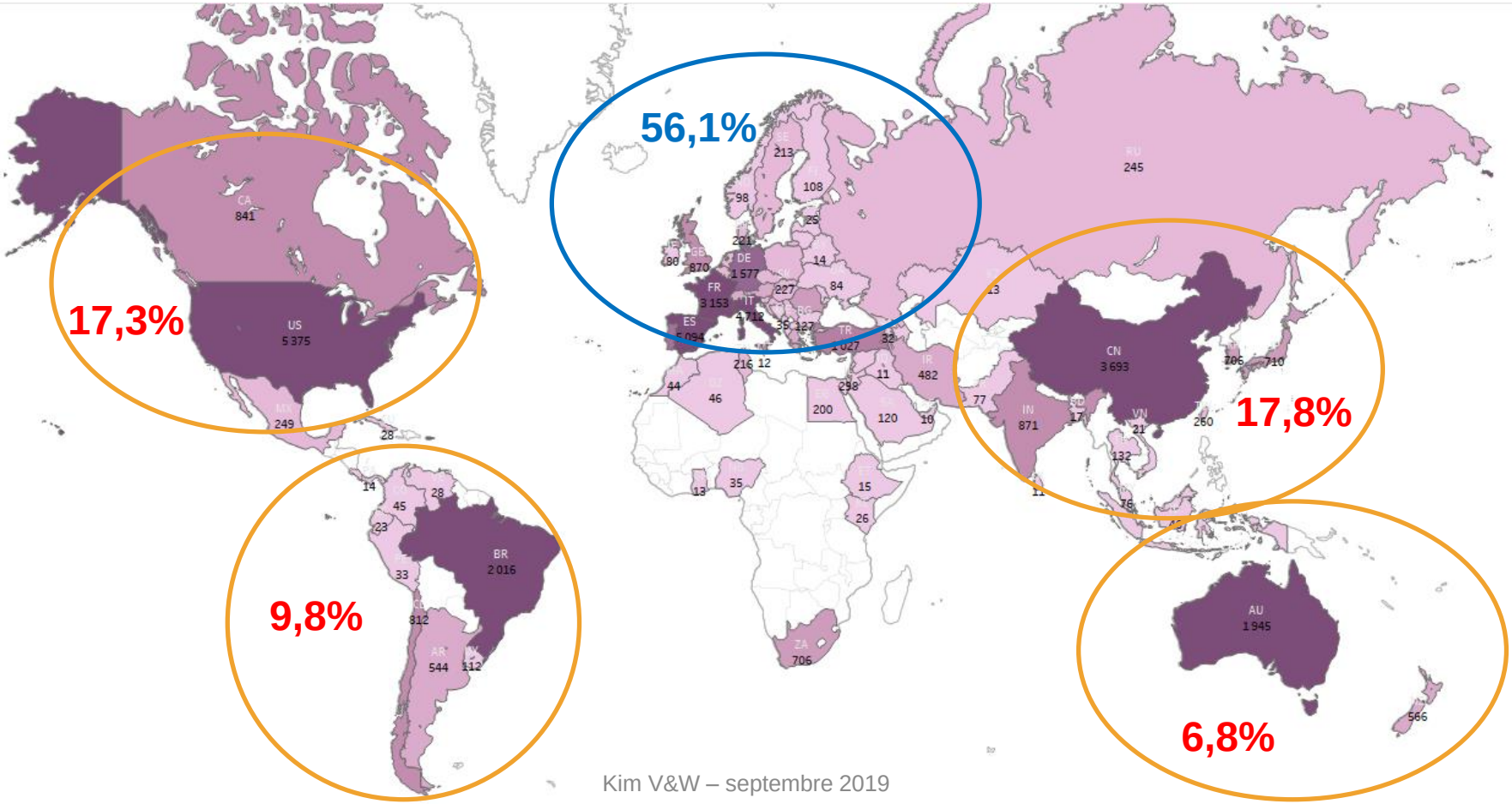
Principaux mots-clés (seuil > 40 occurrences)

Thématiques

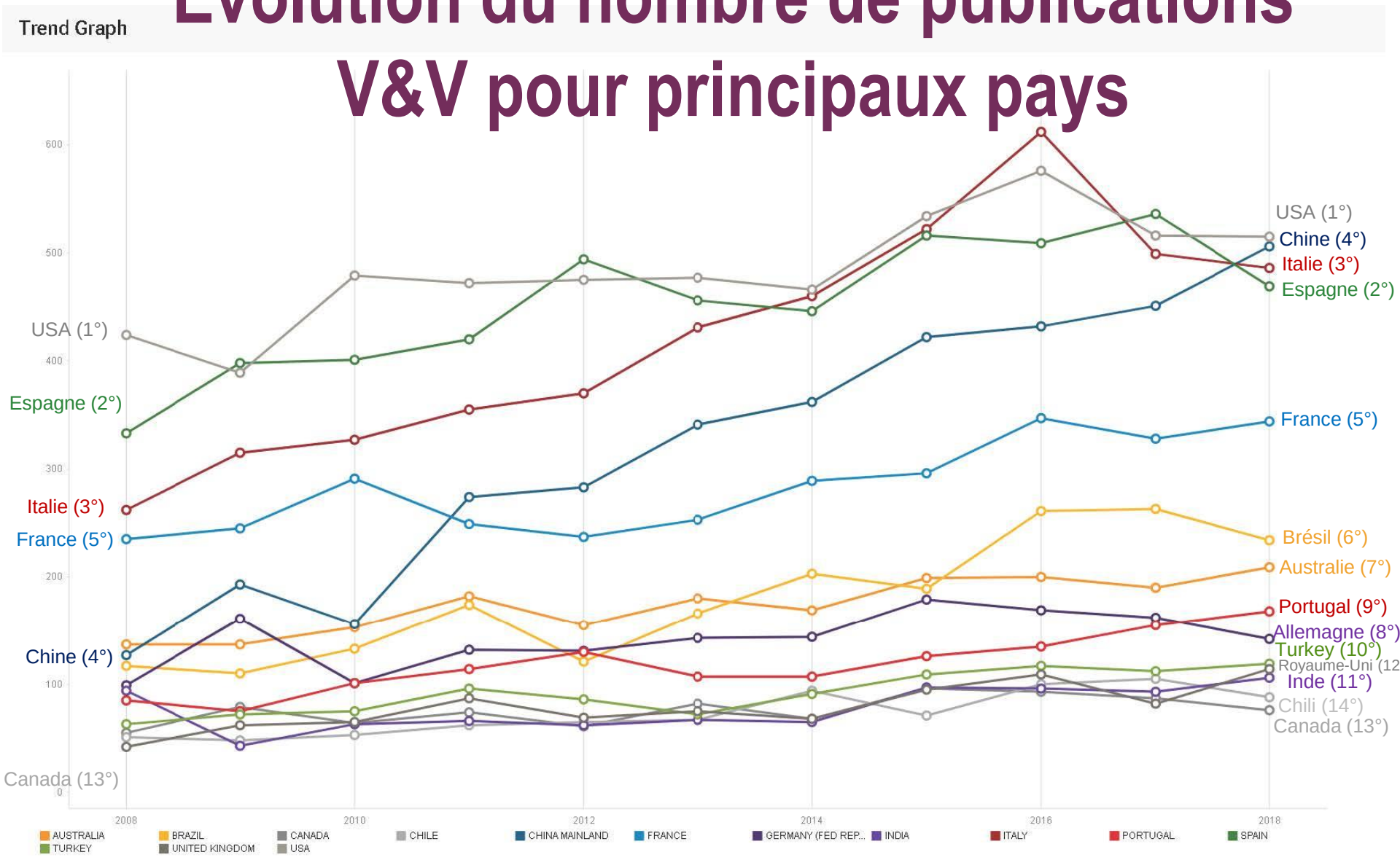
Principales WoS categories	nb publis V&V 2008-2018	% du corpus V&V
Food Science & Technology	10904	17,20%
Horticulture	5467	8,60%
Plant Sciences	4377	6,90%
Chemistry, Applied	3135	4,90%
Biotechnology & Applied Microbiology	2869	4,50%
Agriculture, Multidisciplinary	2687	4,20%
Agronomy	2195	3,50%
Nutrition & Dietetics	2040	3,20%
Chemistry, Analytical	1623	2,60%
Biochemistry & Molecular Biology	1588	2,50%
Microbiology	1484	2,30%
Environmental Sciences	1348	2,10%
Chemistry, Multidisciplinary	995	1,60%
Entomology	840	1,30%
Pharmacology & Pharmacy	802	1,30%
Multidisciplinary Sciences	766	1,20%
Biochemical Research Methods	732	1,20%
Engineering, Chemical	696	1,10%
Agricultural Economics & Policy	521	0,80%
Soil Science	498	0,80%
Ecology	485	0,80%
Economics	484	0,80%
Genetics & Heredity	481	0,80%
Agricultural Engineering	453	0,70%
Toxicology	443	0,70%
Chemistry, Medicinal	441	0,70%
Business	392	0,60%
Water Resources	383	0,60%
Engineering, Environmental	366	0,60%
Cell Biology	322	0,50%
Oncology	313	0,50%
Management	310	0,50%
Engineering, Electrical & Electronic	307	0,50%

Corpus V&V Monde

Top 10 Principaux Pays	Nb. publications V&V 2008-2018	Fréq.
USA	5375	14,8%
Espagne	5094	14,0%
Italie	4711	13,0%
Chine	3693	10,2%
France	3155	8,7%
Brésil	2016	5,6%
Australie	1945	5,4%
Allemagne	1577	4,3%
Portugal	1340	3,7%
Turquie	1027	2,8%

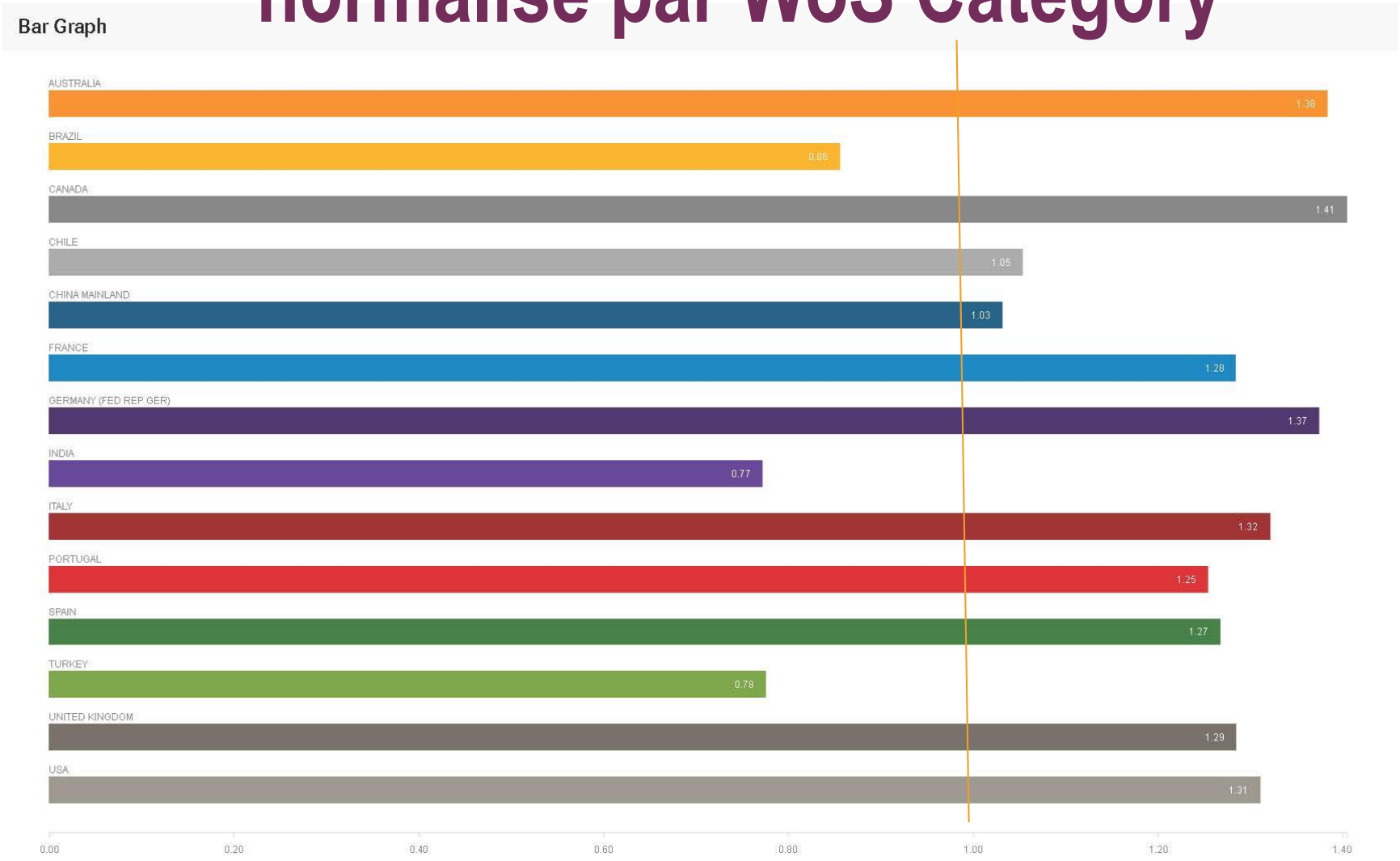


Evolution du nombre de publications V&V pour principaux pays



Indicators: Web of Science Documents. **Location Type:** Country/region. **Document Type:** Article, Review, Proceedings Paper, Letter. **Time Period:** 2008-2018. **Dataset:** Corpus_VV_Monde_2008-2019.
InCites dataset updated Aug 27, 2019. Includes Web of Science content indexed through Aug 2, 2019. Export Date: Sep 16, 2019.

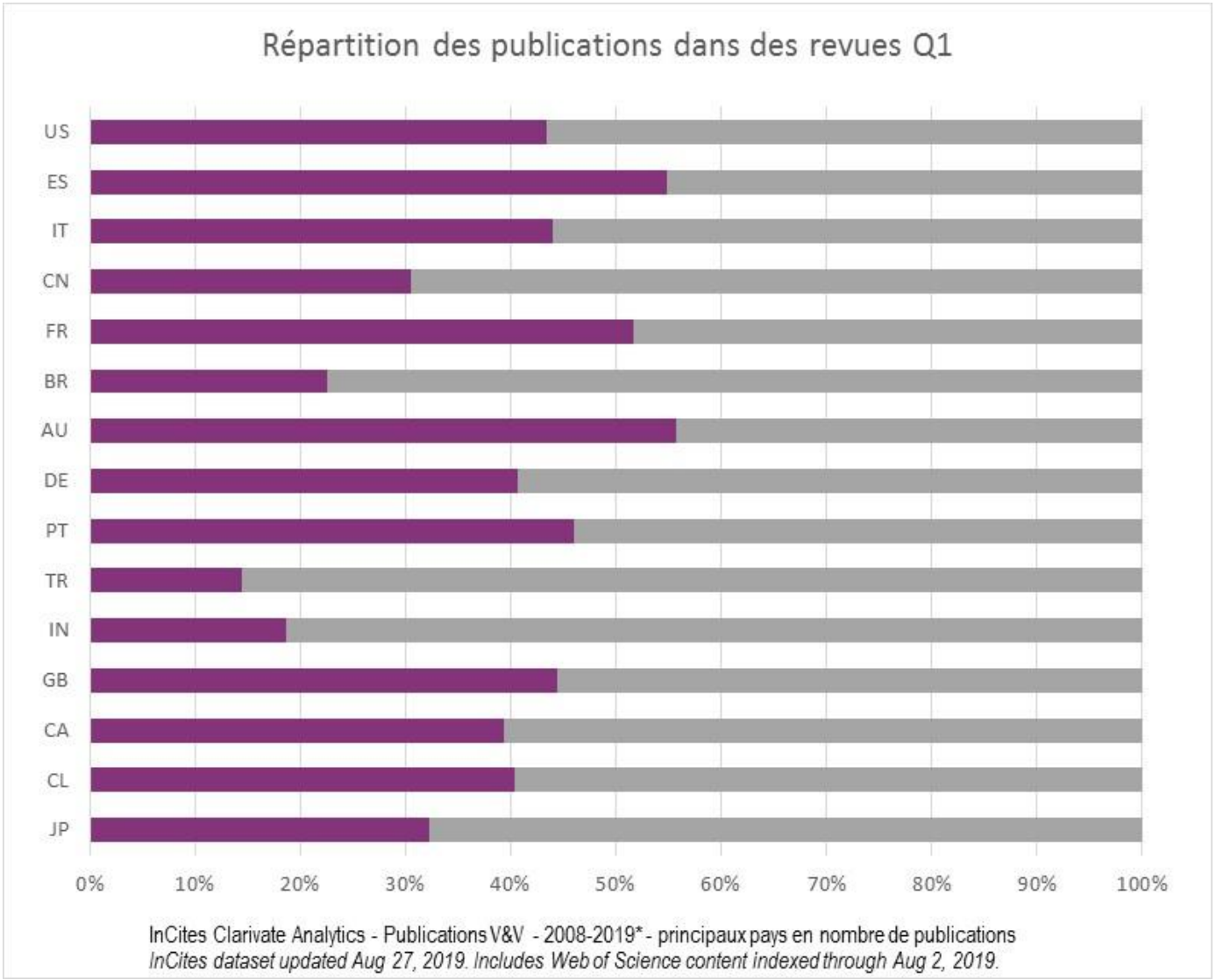
Comparaison de l'impact citationnel normalisé par WoS Category



Indicators: Category Normalized Citation Impact. **Location Type:** Country/region. **Document Type:** Article, Review, Proceedings Paper, Letter. **Time Period:** 2008-2018. **Dataset:** Corpus_VV_Monde_2008-2019.

InCites dataset updated Aug 27, 2019. Includes Web of Science content indexed through Aug 2, 2019. Export Date: Sep 16, 2019.

Classement des pays par nombre de publications V&V 1er Quartile (revues)



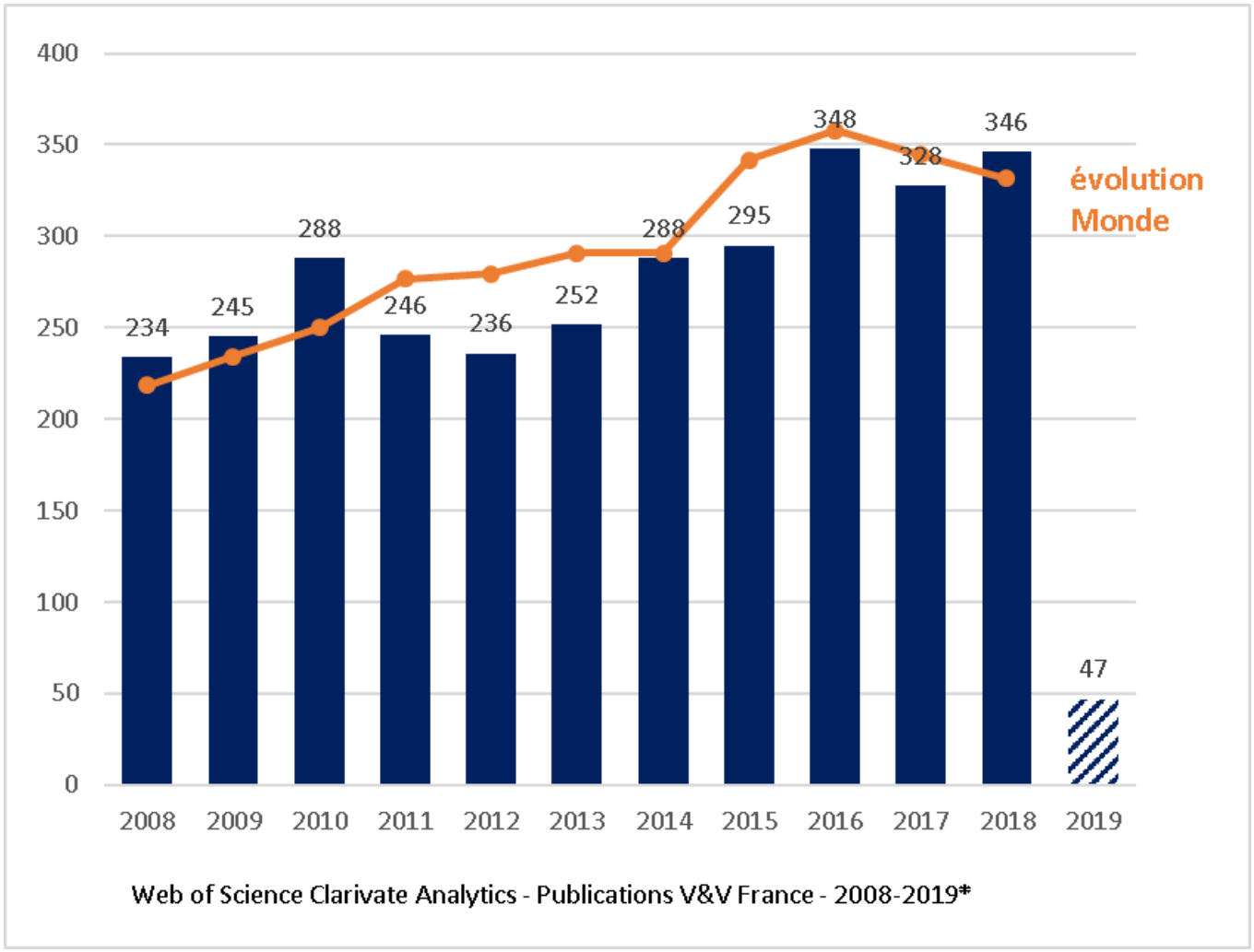
Principales institutions V&V

Name	Rank	Country/Region	Web of Science Documents	Category Normalized Citation Impact	Times Cited	% Documents in Q1 Journals	Documents in Journals
Institut National de la Recherche Agronomique (INRA)	1	FRANCE	1,553	1.45	29,883	69.01%	944
Consejo Superior de Investigaciones Cientificas (CSIC)	2	SPAIN	1,306	1.46	24,251	72.6%	853
University of California Davis	3	USA	753	1.5	15,128	67.89%	427
United States Department of Agriculture (USDA)	4	USA	752	1.35	12,058	56.73%	371
Centre National de la Recherche Scientifique (CNRS)	5	FRANCE	751	1.29	13,617	64%	416
Communaute d'Universites et Etablissements d'Aquitaine (ComUE)	6	FRANCE	652	1.47	10,600	66.43%	374
Consiglio Nazionale delle Ricerche (CNR)	7	ITALY	619	1.49	11,208	59.93%	320
Northwest A&F University - China	8	CHINA MAINLAND	526	1.11	5,294	46.65%	181
China Agricultural University	9	CHINA MAINLAND	482	1.08	6,402	47.13%	197
Universite de Bordeaux	10	FRANCE	480	1.36	9,021	65.87%	276
Stellenbosch University	11	SOUTH AFRICA	458	1.02	6,480	43.55%	179
University of Adelaide	12	AUSTRALIA	453	1.31	7,387	77.63%	302
Universidad de La Rioja	13	SPAIN	447	1.38	6,139	69.77%	277
Empresa Brasileira de Pesquisa Agropecuaria (Embrapa)	14	BRAZIL	412	0.83	2,885	23.33%	77
Cornell University	15	USA	406	1.24	6,502	59.52%	200

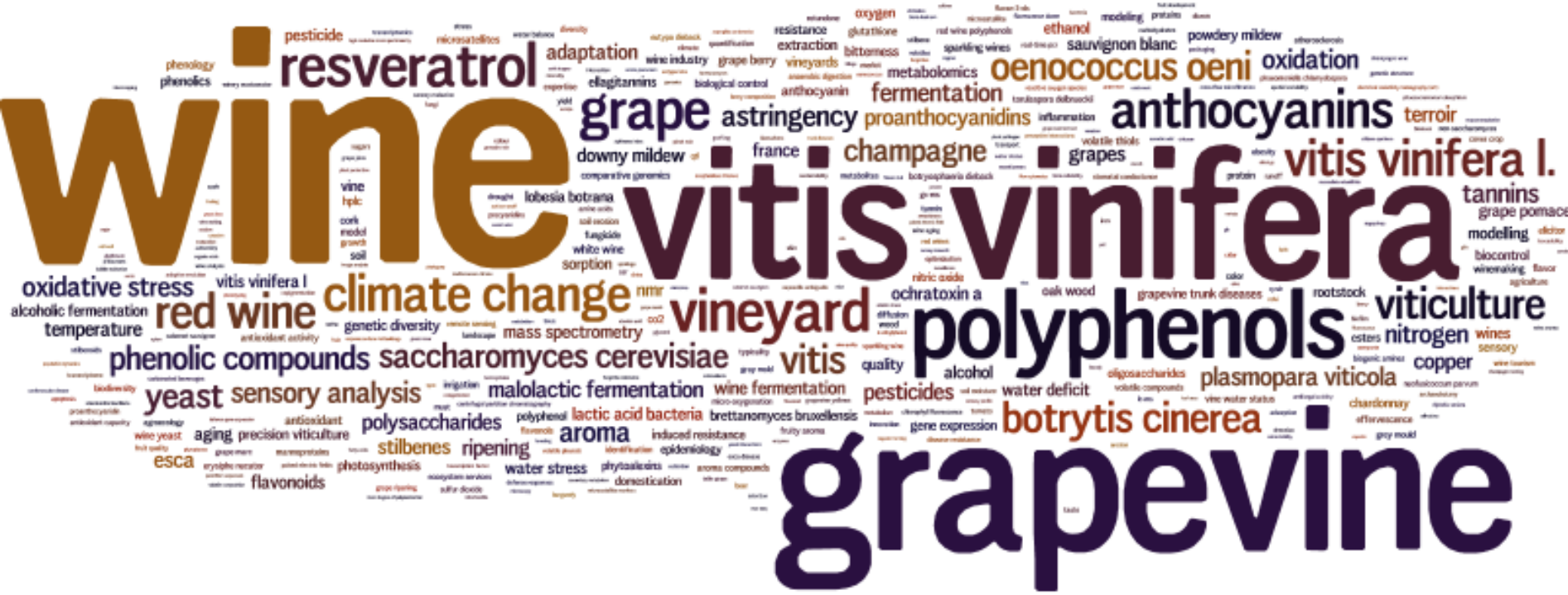
InCites dataset updated Aug 27, 2019. Includes Web of Science content indexed through Aug 2, 2019.

Résultats France

Evolution du nombre de publications

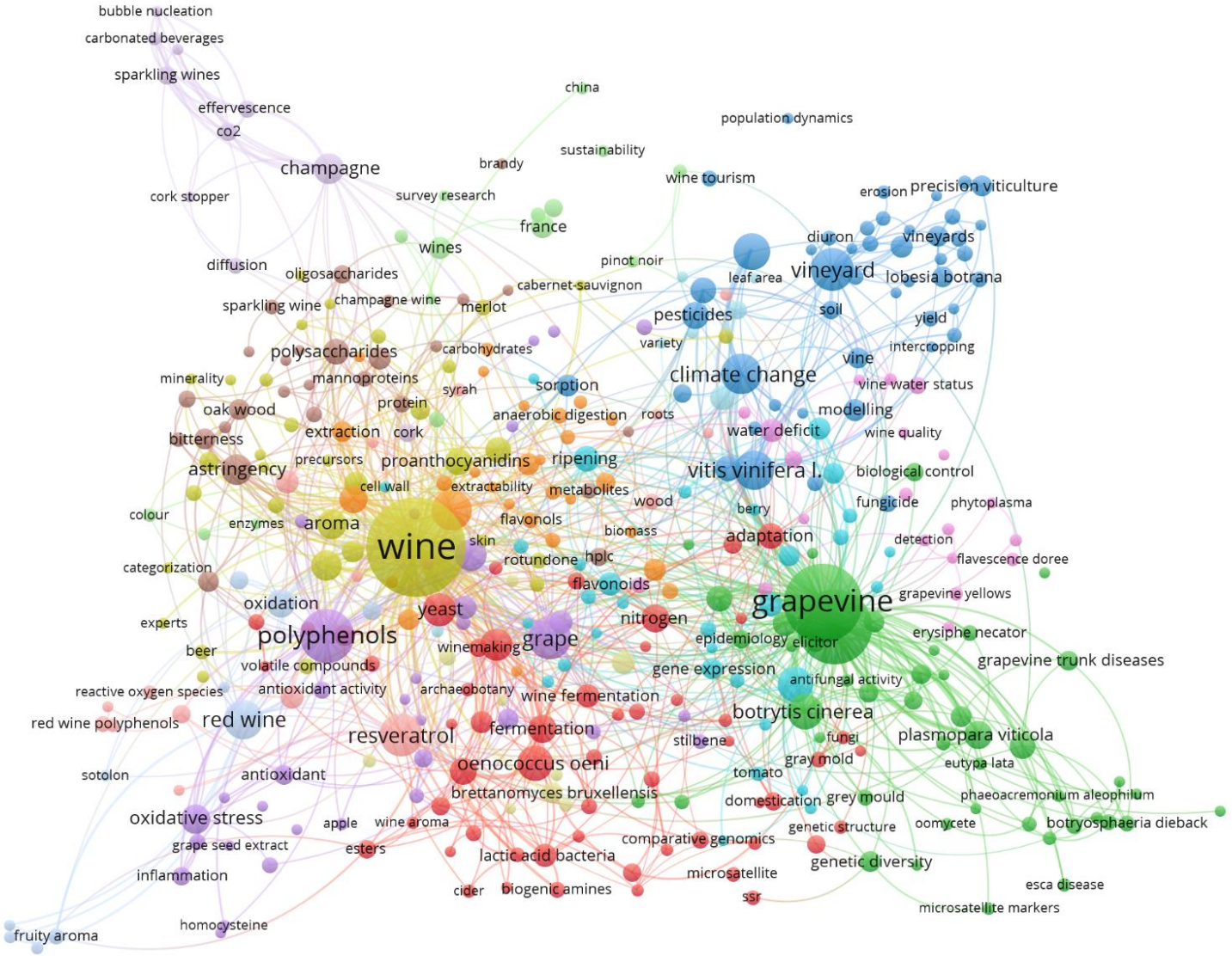


Mots-clés



Réalisé avec Wordle.com
Principaux mots-clés (seuil > 4 occurrences)

Réseau de co-occurrences de mots-clés

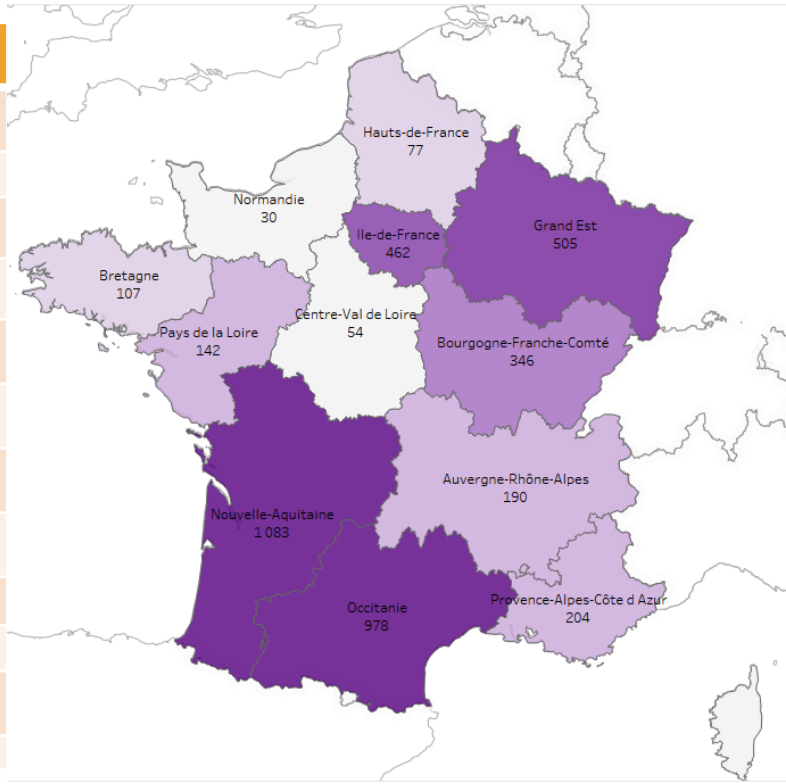


VOSviewer

Principaux mots-clés (seuil > 5 occurrences)

Corpus V&V France

Grandes-Régions-Françaises	Nb publis WoS 2008-2018	% France
Région Nouvelle-Aquitaine	1083	34,3%
Région Occitanie	978	31,0%
Région Grand Est	505	16,0%
Région Ile-de-France	462	14,7%
Région Bourgogne-Franche-Comté	346	11,0%
Région Provence-Alpes-Côte d Azur	204	6,5%
Région Auvergne-Rhône-Alpes	190	6,0%
Région Pays de la Loire	142	4,5%
Région Bretagne	107	3,4%
Région Hauts-de-France	77	2,4%
Région Centre-Val de Loire	54	1,7%
Région Normandie	30	1,0%



Analytics – Vigne & Vin 2008-2018 , traitement Inra SDAR Montpellier Occitanie mai 2019

Anciennes-Régions-Françaises	Nb. publications V&V 2008-2018	% publications V&V France
Aquitaine	1020	32,4%
Languedoc-Roussillon	809	25,7%
Ile de France	462	14,7%
Bourgogne	337	10,7%
Alsace	258	8,2%
Midi Pyrénées	225	7,1%

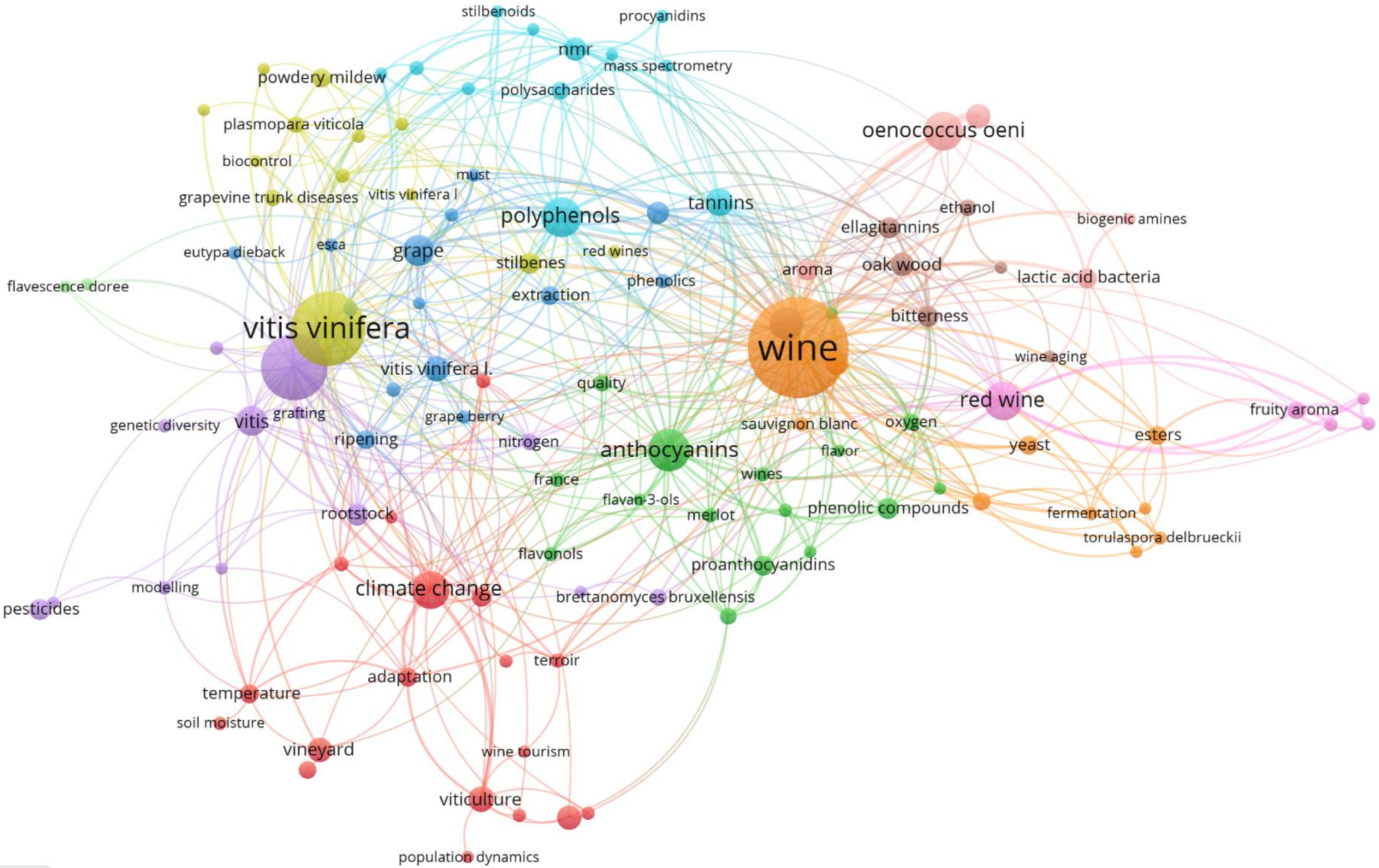
Régions françaises et mots-clés 1/2

---	Principaux mots-clés (fréquence)	Principaux mots-clés spécifiques
Aquitaine (1020)	wine (126) Vitis vinifera (79) Grapevine (67) Anthocyanins (33) Polyphenols (31) Oenococcus oeni (30) red wine (29) climate change (28) astringency (23) Grape (21)	fruity aroma + (9) stilbene + (7) Antioxidant capacity + (6) Procyanidins + (6) oak wood + (14) Esters + (10) proanthocyanidin + (6) Red wines + (6) astringency + (23) Merlot + (7)
Languedoc Roussillon (809)	wine (79) Vitis vinifera (57) Grapevine (55) Vitis vinifera L. (32) vineyard (25) Polyphenols (22) Grape (19) Saccharomyces cerevisiae (18) yeast (15) Nitrogen (15)	oligosaccharides + (12) QTL + (9) innovation + (5) Genetic structure + (5) Domestication + (11) Winemaking + (9) Cover crop + (9) Syrah + (6) Wine fermentation + (15) precision viticulture + (10)
Ile de France (461)	wine (44) Vitis vinifera (21) Resveratrol (19) Grapevine (15) Alcohol (11) Polyphenols (10) Botrytis cinerea (9) climate change (7) viticulture (7) Downy mildew (7)	Alcohol + (11) Chlorophyll fluorescence + (3) fungi + (4) Wine industry + (4) grey mould + (4) Archaeobotany + (3) Metabolites + (3) Expertise + (4) Beer + (4) resistance + (5)
Bourgogne (336)	wine (69) Resveratrol (17) Grapevine (12) Polyphenols (12) Lobesia botrana (12) Vitis vinifera (11) Botrytis cinerea (9) cork (9) Plasmopara viticola (8) vineyard (7)	cork + (9) Burgundy + (5) agroecology + (5) Expertise + (6) sparkling wine + (4) Sensory + (7) Lobesia botrana + (12) diffusion + (4) Sulfur dioxide + (4) Inflammation + (5)
Alsace (258)	Grapevine (45) Vitis vinifera (24) Plasmopara viticola (14) Polyphenols (10) wine (9) Downy mildew (8) Esca (7) Resveratrol (6) Botrytis cinerea (6) resistance (6)	Disease resistance + (6) Red wine polyphenols + (6) nitric oxide + (6) Plasmopara viticola + (14) resistance + (6) Grape marc + (3) botryosphaeria dieback + (5) Downy mildew + (8) Erysiphe necator + (4) Neofusicoccum parvum + (5)
Midi Pyrénées (225)	wine (24) Grapevine (13) Saccharomyces cerevisiae (10) yeast (8) Resveratrol (6) Oenococcus oeni (6) Fermentation (6) Wine fermentation (6) rotundone (6) Polyphenols (5)	rotundone + (6) Mannoproteins + (4) Wine yeast + (5) Soil moisture + (4) Wine fermentation + (6) Saccharomyces cerevisiae + (10) Ochratoxin A + (5) aroma compounds + (3) Grape marc + (2) Non-Saccharomyces + (2)

Régions françaises et mots-clés 2/2

---	Principaux mots-clés (fréquence)	Principaux mots-clés spécifiques
Champagne Ardenne (224)	Champagne (30) Grapevine (27) Vitis vinifera (18) wine (16) Resveratrol (15) Botrytis cinerea (13) Sparkling wines (11) CO2 (10) Effervescence (10) Phytoalexins (8)	Sparkling wines + (11) CO2 + (10) carbonated beverages + (7) Effervescence + (10) Champagne + (30) Protein + (8) Phytoalexins + (8) Defense responses + (4) Photosynthesis + (7) Chlorophyll fluorescence + (3)
Provence Alpes Cotes d Azur (204)	Vitis vinifera (14) wine (13) climate change (13) Grapevine (11) vineyard (9) Vitis (9) oxidative stress (7) Phenology (6) Vitis vinifera L. (5) red wine (5)	iron + (3) Biogenic amines + (4) Real-time PCR + (3) Tomato + (4) antioxidant + (4) Epidemiology + (5) irrigation + (3) Syrah + (2) oxidative stress + (7) Phenology + (6)
Rhone Alpes (150)	wine (13) Grapevine (7) Pesticide (6) Resveratrol (5) vineyard (5) Vitis vinifera L. (5) Diuron (5) Botrytis cinerea (4) pesticides (4) Alcohol (4)	Diuron + (5) Erosion + (4) Pesticide + (6) Water balance + (3) Cover crop + (3) agriculture + (3) agroecology + (2) Epidemiology + (4) Alcohol + (4) biological control + (2)
Pays de la Loire (142)	wine (12) Grapevine (8) Polyphenols (8) ripening (8) climate change (7) Sensory analysis (6) viticulture (5) Typicality (5) Vitis vinifera (4) vineyard (4)	Typicality + (5) ripening + (8) antioxidant activity + (3) Soil + (4) nitric oxide + (3) Phaeomoniella chlamydospora + (3) phenolics + (4) climate + (2) Landscape + (2) Optimization + (2)
Bretagne (107)	climate change (11) Grapevine (8) wine (6) Vitis vinifera (5) vineyard (5) Polyphenols (4) viticulture (4) Grape pomace (4) Anaerobic digestion (4) proanthocyanidins (3)	Anaerobic digestion + (4) Cider + (2) Grape pomace + (4) Landscape + (2) Ecosystem services + (2) berry composition + (1) Winery wastewater + (1) Elicitor + (2) climate change + (11) proanthocyanidins + (3)
Poitou Charente (80)	Grapevine (12) Vitis vinifera (10) wine (8) Aroma (6) Esca (6) aging (5) red wine (4) Sensory analysis (4) oak wood (4) flavor (4)	Eutypa dieback + (4) flavor + (4) Esca disease + (2) Phaeomoniella chlamydospora + (3) oak wood + (4) aging + (5) wine aging + (2) bitterness + (3) ellagitannins + (3) Esca + (6)

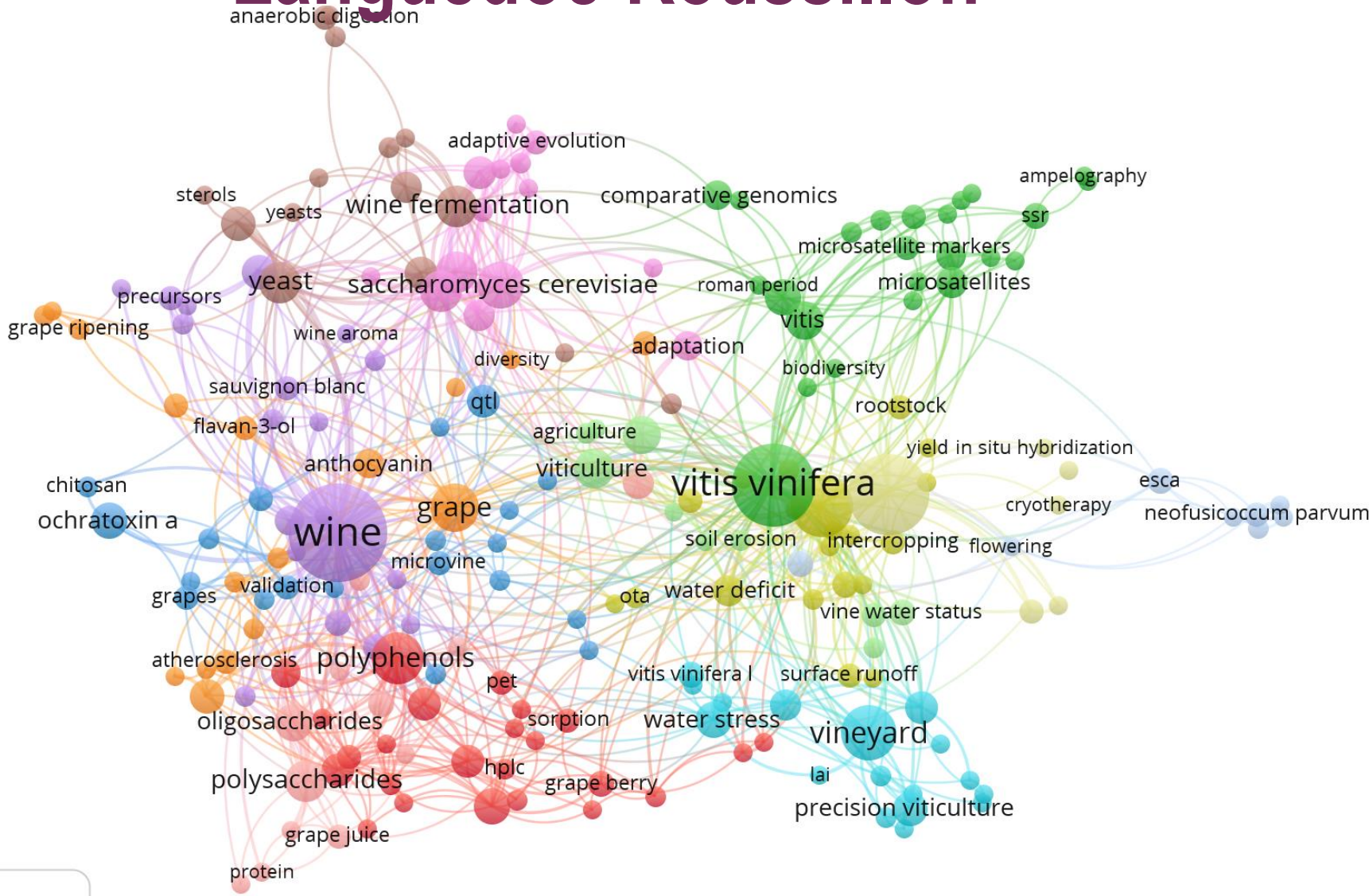
Réseaux de co-occurrence de mots-clés Aquitaine



VOSviewer

Principaux mots-clés (seuil > 5 occurrences)

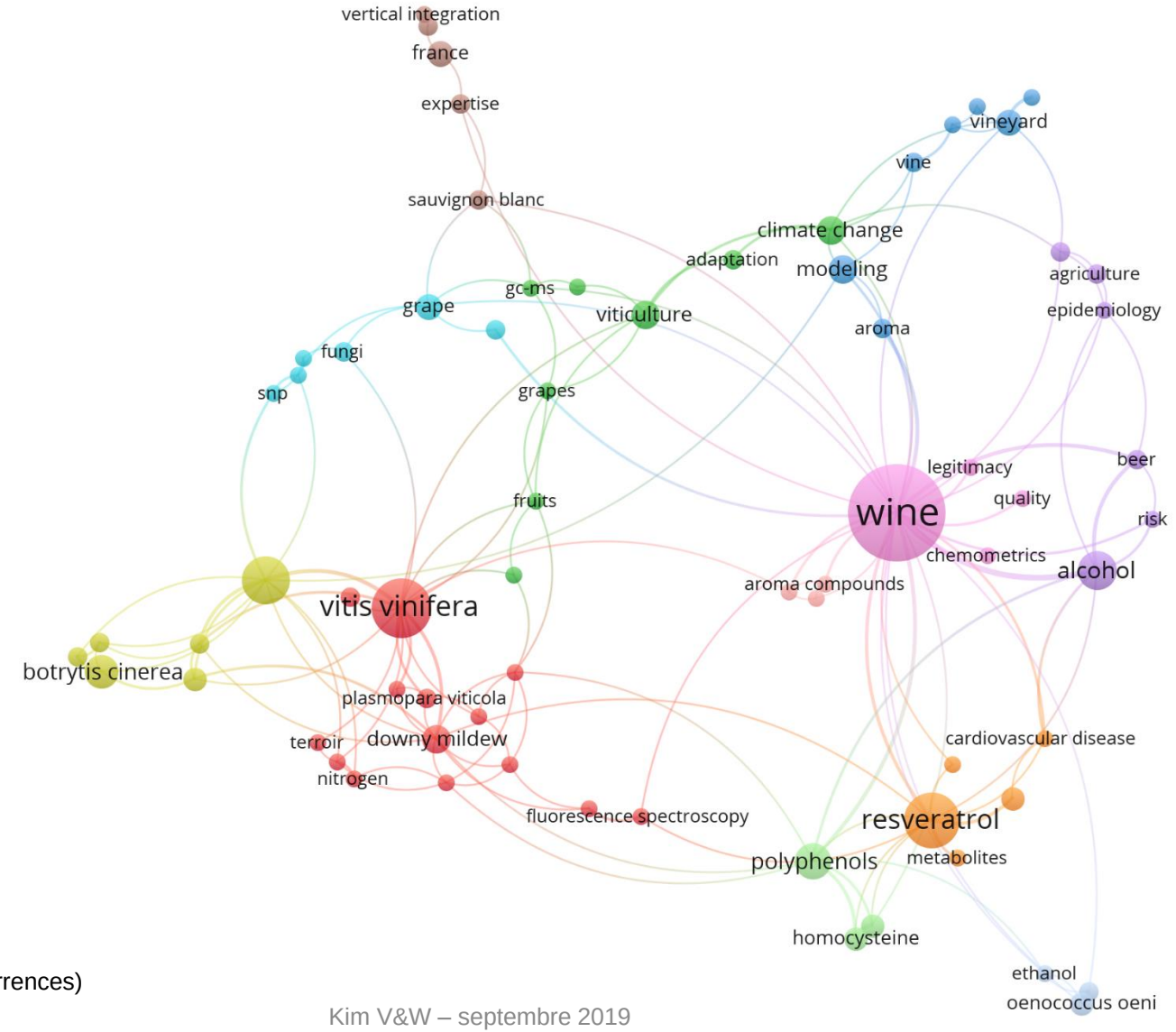
Réseaux de co-occurrence de mots-clés Languedoc-Roussillon



VOSviewer

Principaux mots-clés (seuil > 3 occurrences)

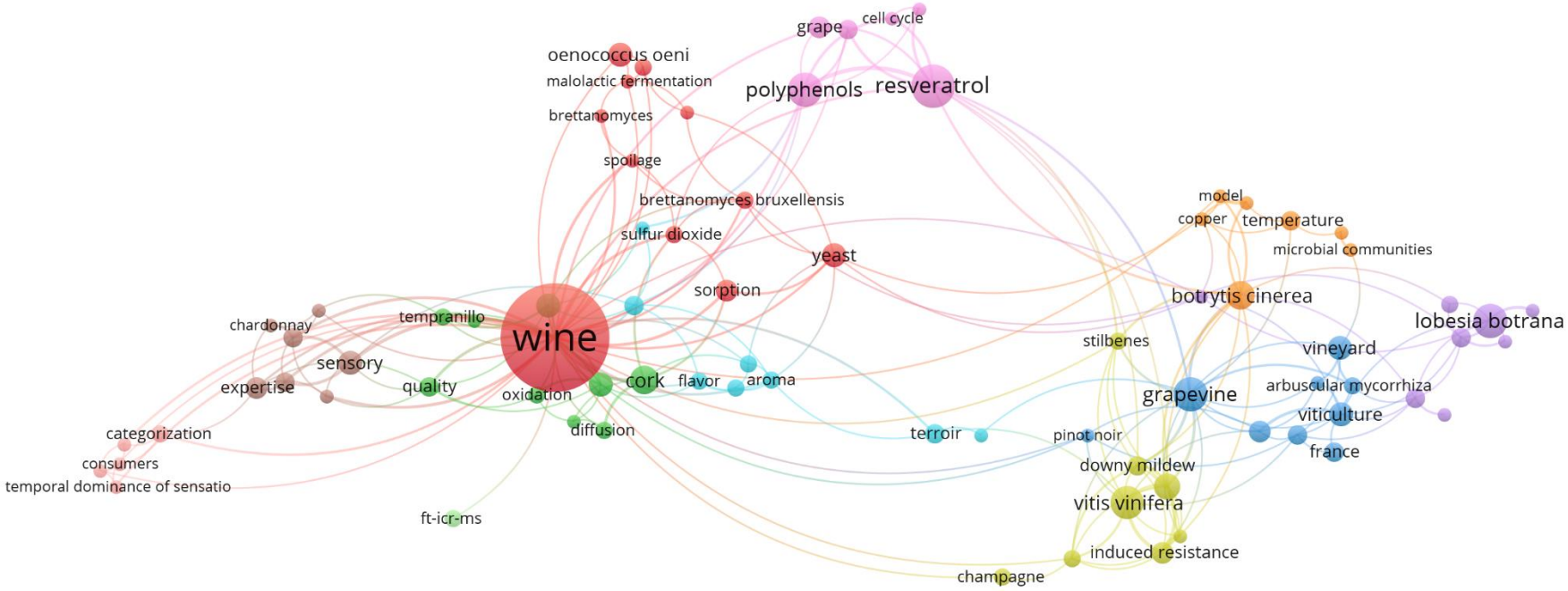
Réseaux de co-occurrence de mots-clés Ile de France



Principaux mots-clés (seuil > 3 occurrences)

VOSviewer

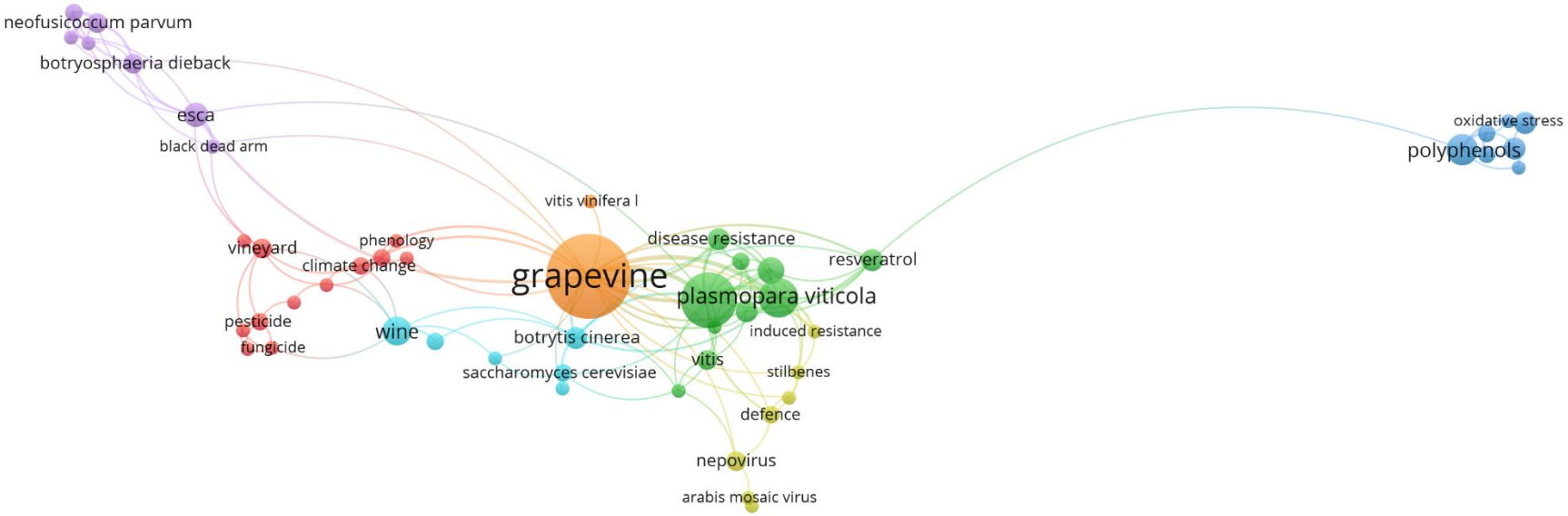
Réseaux de co-occurrence de mots-clés Bourgogne



Principaux mots-clés (seuil > 3 occurrences)

VOSviewer

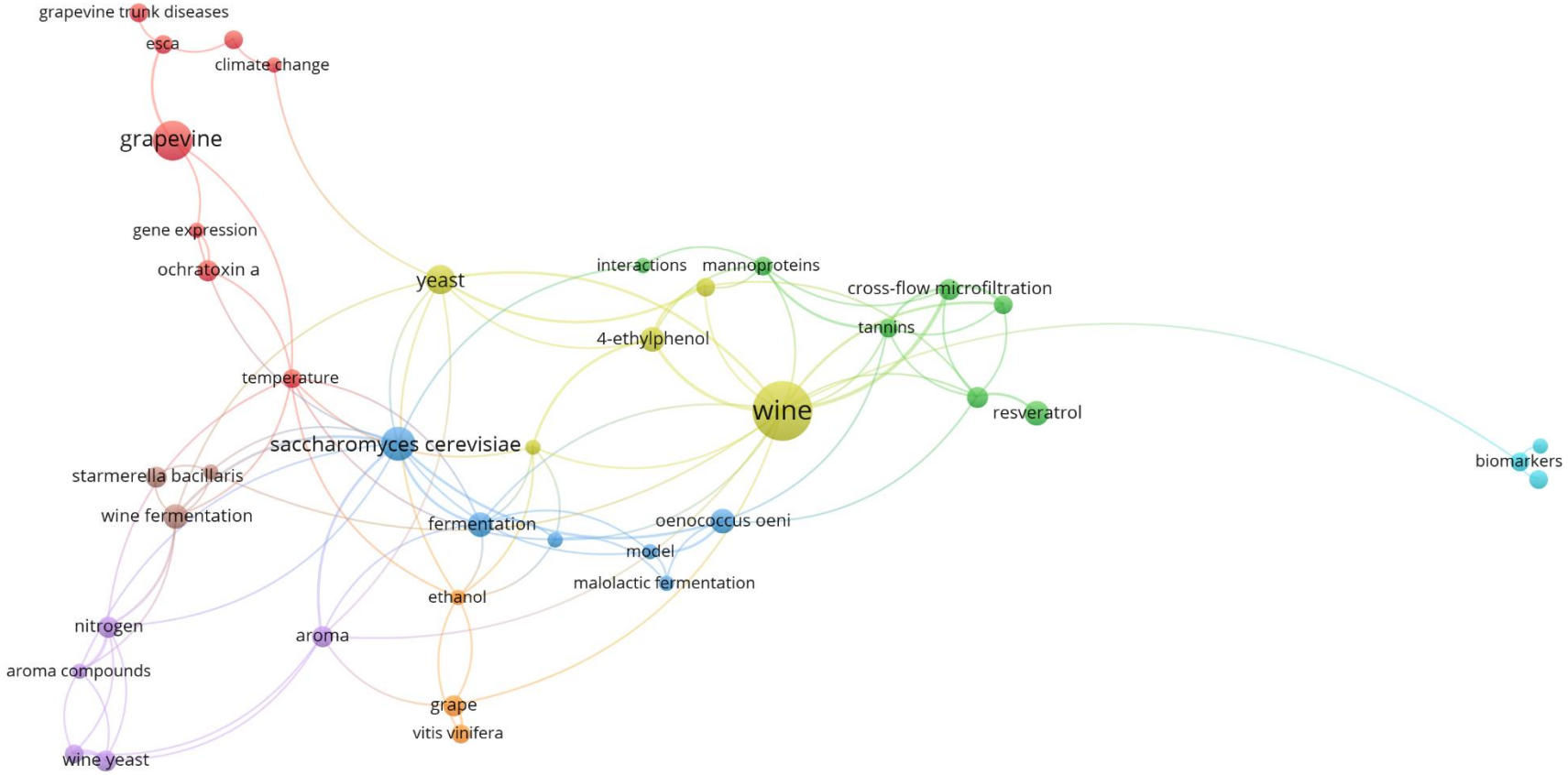
Réseaux de co-occurrence de mots-clés Alsace



VOSviewer

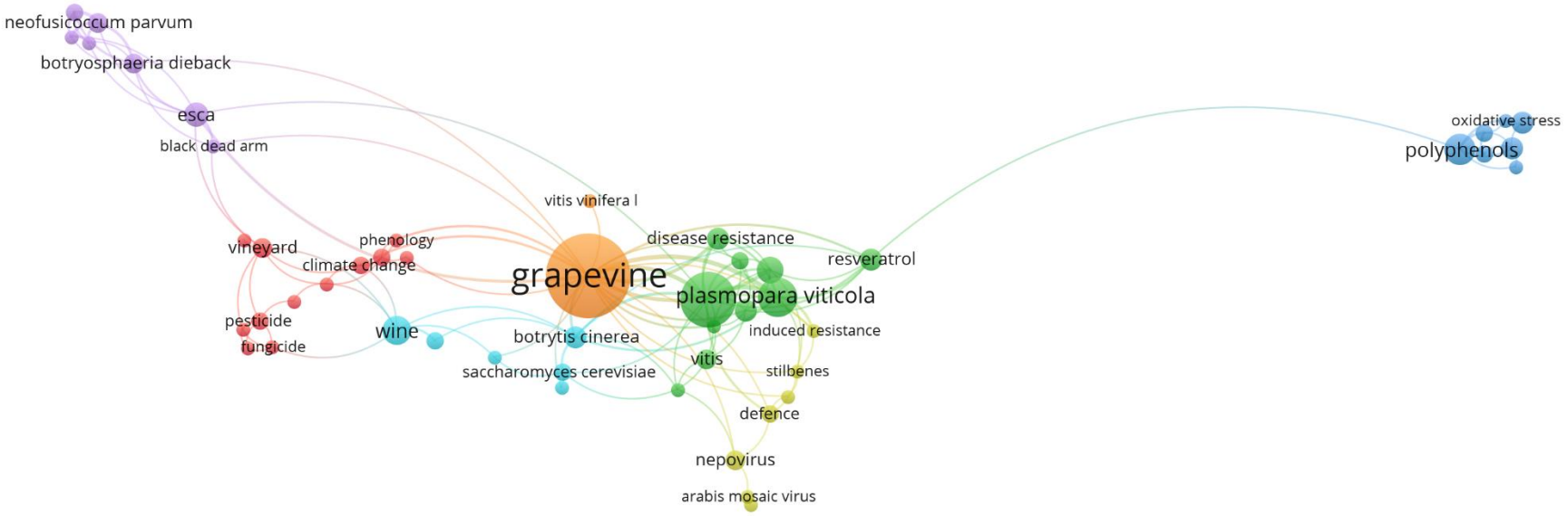
Principaux mots-clés (seuil > 3 occurrences)

Réseaux de co-occurrence de mots-clés Midi-Pyrénées



Principaux mots-clés (seuil > 3 occurrences)

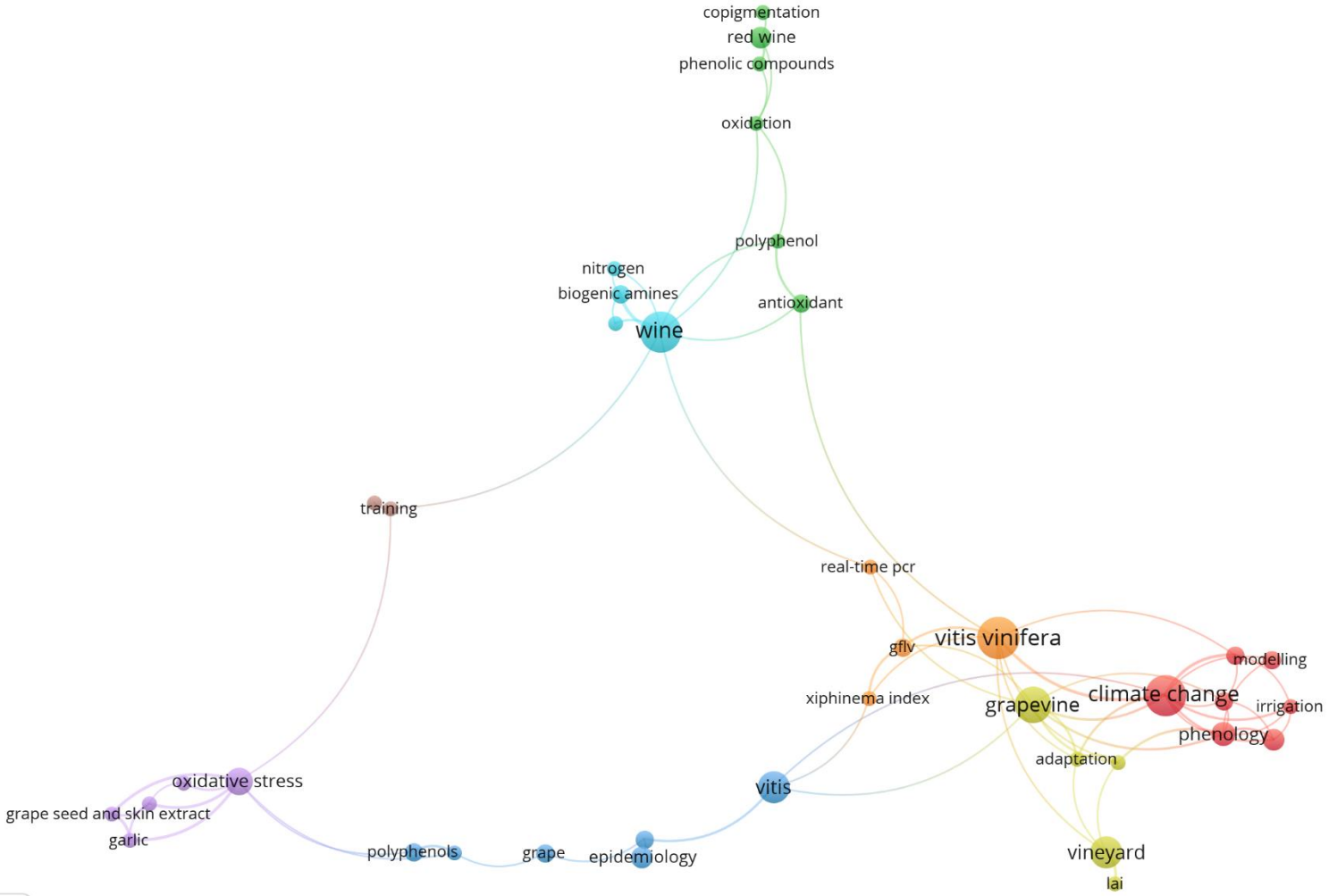
Réseaux de co-occurrence de mots-clés Champagne-Ardennes



VOSviewer

Principaux mots-clés (seuil > 3 occurrences)

Réseaux de co-occurrence de mots-clés Provence Alpes Côte d'Azur



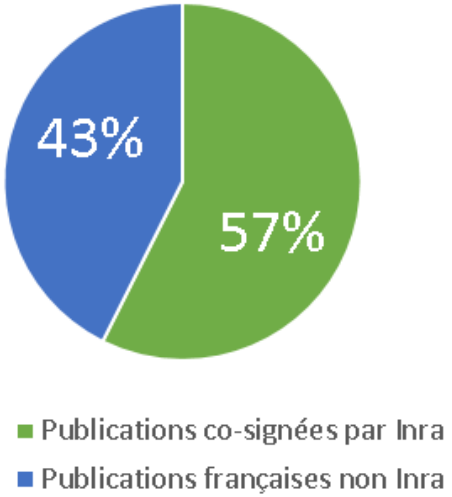
VOSviewer

Principaux mots-clés (seuil > 3 occurrences)

Unités V&V en France

Principales unités de recherche	Nb. publications V&V 2008-2018	% publications V&V France
Oenologie EA 4577 - USC 1366 - Bordeaux	375	11,9%
SPO UMR 1083 - Montpellier	266	8,4%
EGFV UMR 1287 - Bordeaux	178	5,6%
SAVE UMR 1065 - Bordeaux	166	5,3%
AGAP UMR 1334 - Montpellier	151	4,8%
URVVC EA 4707 - Reims	130	4,1%
SVQV UMR 1131 - Colmar	124	3,9%
Agroécologie UMR 1347 - Dijon	85	2,7%
CSGA UMR 1324 - Dijon	75	2,4%
PAM UMR - Dijon	65	2,1%
GRAPPE USC 1422 - Angers Nantes	62	2,0%
Pech Rouge UE 999 - Gruissan	60	1,9%
ITAP UMR - Montpellier	54	1,7%
LVBE EA 3991 - Colmar	52	1,7%
ISM UMR 5255 - Bordeaux	50	1,6%
BFP UMR 1332 - Bordeaux	48	1,5%
GESVAB EA 3675 - Bordeaux	47	1,5%
LISAH UMR 1221 - Montpellier	40	1,3%
Biogeosciences UMR 6282 - Dijon	39	1,2%
GSMA UMR 7331 - Reims	38	1,2%
SYSTEM UMR 1230 - Montpellier	35	1,1%
TIMR EA 4297 - Compiegne	33	1,1%
LEPSE UMR 759 - Montpellier	30	1,0%

Les publications Inra V&V

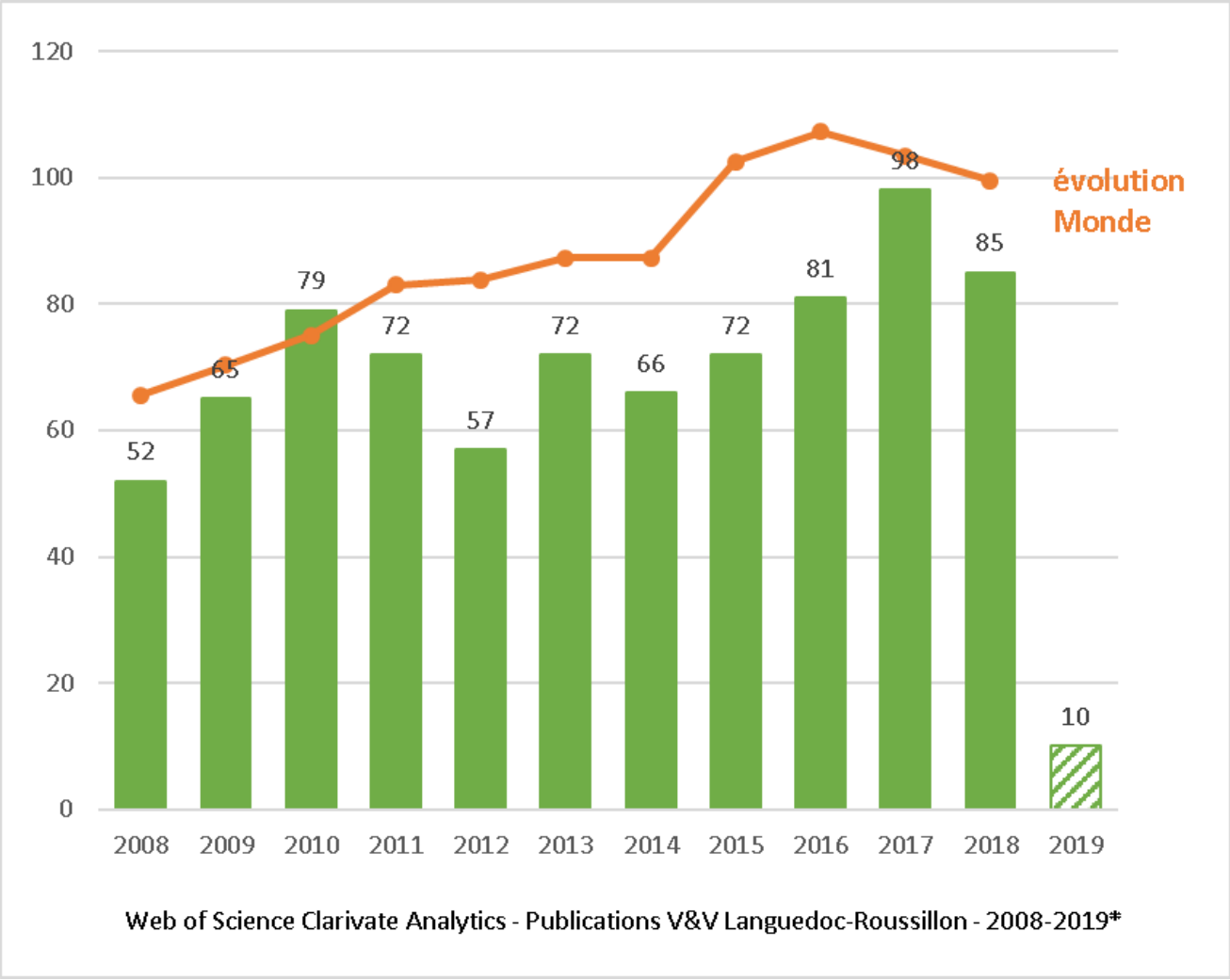


Centres Inra	Nb. publications V&V 2008-2018	% publications Inra V&V
Inra Nouvelle Aquitaine Bordeaux	749	41,4%
Inra Occitanie Montpellier	577	31,9%
Inra Bourgogne Franche Comté	167	9,2%
Inra Grand Est Colmar	128	7,1%
Inra Ile de France Versailles Grignon	110	6,1%
Inra PACA	99	5,5%
Inra Occitanie Toulouse	82	4,5%
Inra Pays de La Loire	81	4,5%
Inra Auvergne Rhône Alpes	42	2,3%
Inra Ile de France Jouy en Josas	35	1,9%
Inra Grand Est Nancy	28	1,6%
Inra Bretagne Normandie	20	1,1%
Inra Val de Loire	8	0,4%
Inra Hauts de France	7	0,4%
Inra Nouvelle Aquitaine Poitiers	3	0,2%
Inra Antilles Guyane	2	0,1%
Inra Centre Siège	1	0,1%

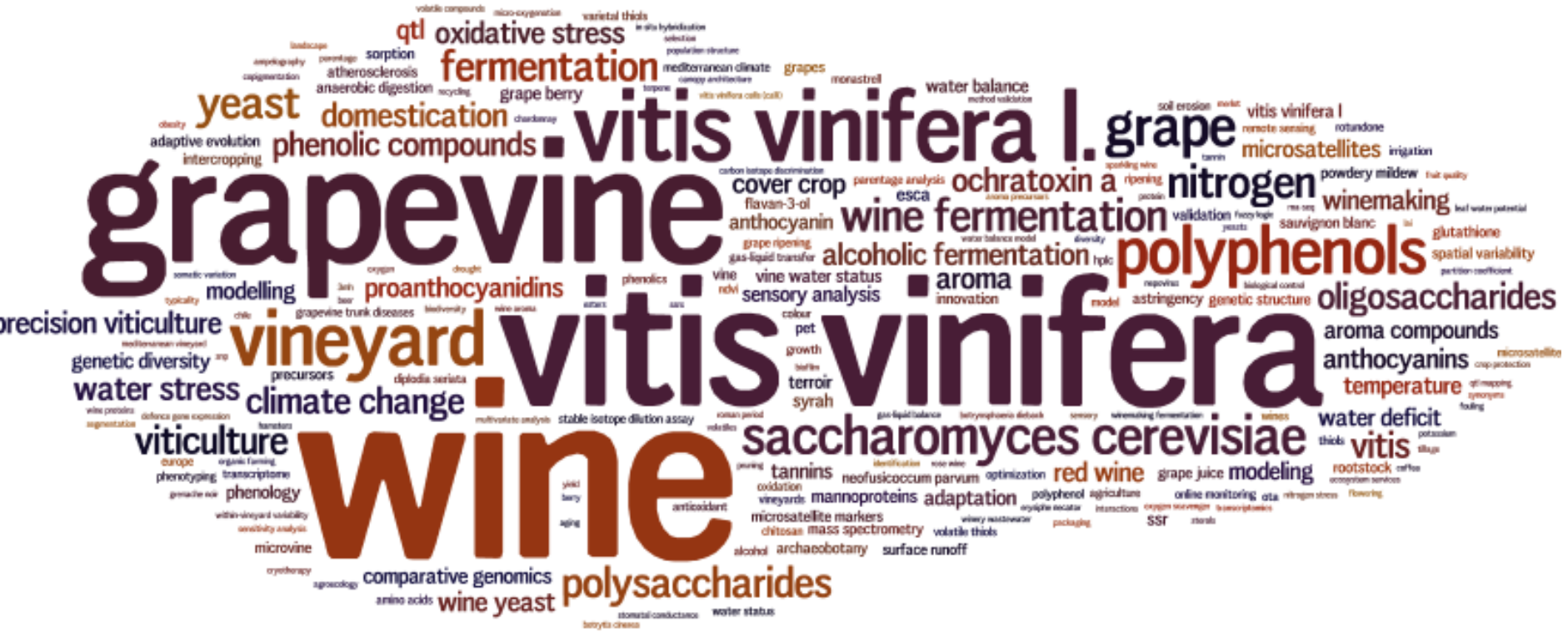
Source Web of Science™ Clarivate Analytics – Vigne & Vin 2008-2018 , traitement Inra SDAR Montpellier Occitanie mai 2019

Résultats Languedoc Roussillon

Evolution du nombre de publications

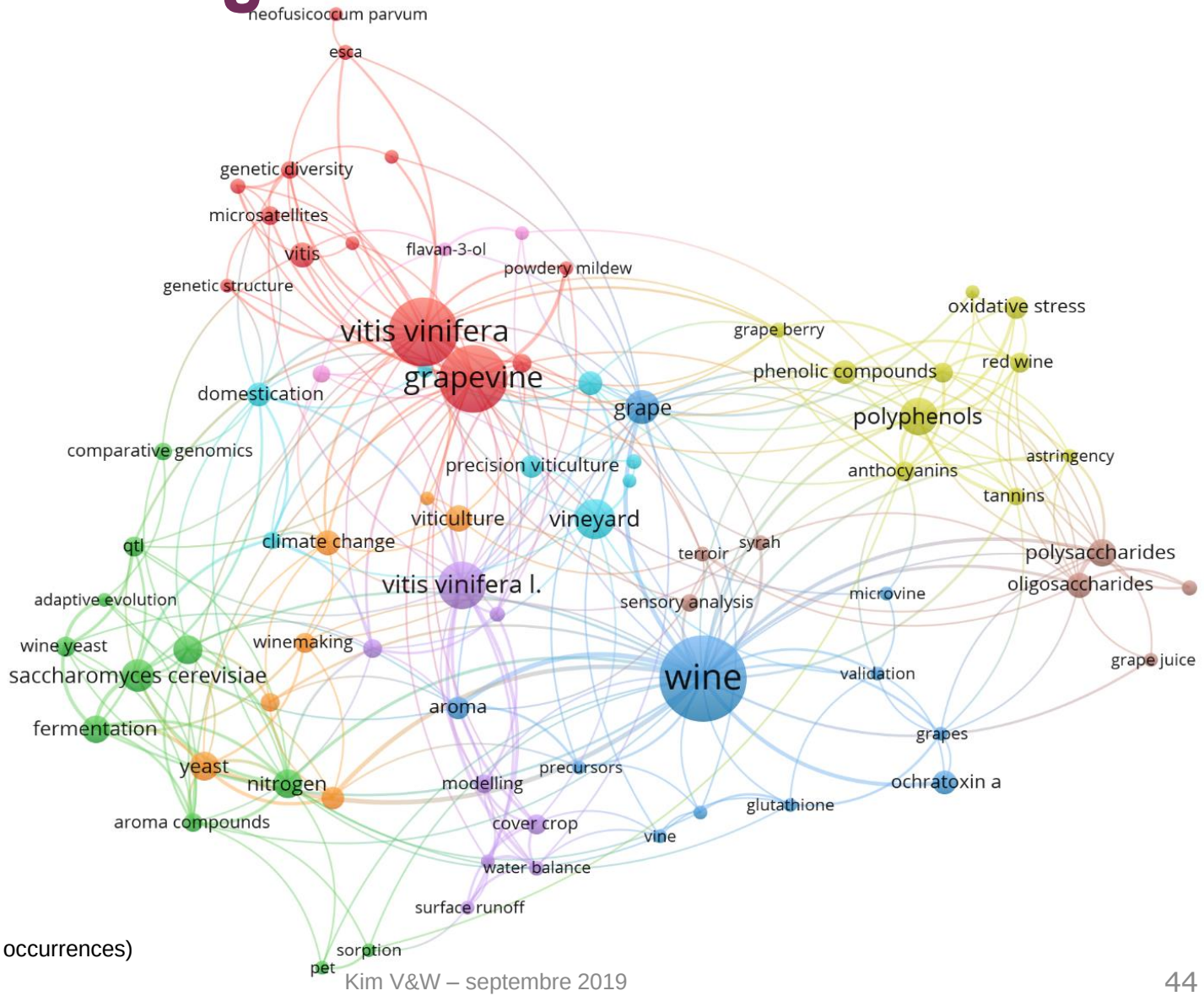


Mots-clés



Réalisé avec Wordle.com
Principaux mots-clés (seuil > 2 occurrences)

Réseau de co-occurrence de mots-clés Languedoc-Roussillon



Principaux mots-clés (seuil > 5 occurrences)

VOSviewer

WoS Categories (classement revues)

Principales WoS Categories	nb publications	
Food Science & Technology	241	16,0%
Plant Sciences	131	8,7%
Horticulture	120	8,0%
Agriculture, Multidisciplinary	90	6,0%
Chemistry, Applied	89	5,9%
Biotechnology & Applied Microbiology	76	5,0%
Agronomy	66	4,4%
Microbiology	45	3,0%
Nutrition & Dietetics	44	2,9%
Biochemistry & Molecular Biology	36	2,4%
Multidisciplinary Sciences	35	2,3%
Genetics & Heredity	32	2,1%
Chemistry, Analytical	29	1,9%
Environmental Sciences	29	1,9%
Ecology	20	1,3%
Soil Science	20	1,3%
Agricultural Economics & Policy	19	1,3%
Entomology	19	1,3%
Water Resources	16	1,1%
Geosciences, Multidisciplinary	15	1,0%
Economics	14	0,9%
Evolutionary Biology	14	0,9%
Chemistry, Multidisciplinary	13	0,9%
Mycology	13	0,9%
Agricultural Engineering	12	0,8%
Biochemical Research Methods	11	0,7%
Computer Science, Interdisciplinary Applications	11	0,70%
Engineering, Chemical	11	0,70%
Remote Sensing	11	0,70%

Les forces V&V en région « ex-LR »

Principales unités	Nb. publications V&V 2008-2018	% LR
SPO UMR 1083 - Montpellier	266	32,9%
AGAP UMR 1334 - Montpellier	150	18,5%
Pech Rouge UE 999 - Gruissan	60	7,4%
ITAP UMR - Montpellier	54	6,7%
LISAH UMR 1221 - Montpellier	40	4,9%
SYSTEM UMR 1230 - Montpellier	35	4,3%
LEPSE UMR 759 - Montpellier	30	3,7%
Genovigne UMT - Montpellier	16	2,0%
CBGP UMR 1062 - Montpellier	16	2,0%
IATE UMR 1208 - Montpellier	15	1,9%
MISTEA UMR 729 - Montpellier	15	1,9%
Nutripass UMR 204 - Montpellier	14	1,7%
IBMM UMR 5247 - Montpellier	14	1,7%
ISEM UMR 5554 - Montpellier	14	1,7%
MRM EA - Montpellier	12	1,5%
INNOVATION UMR 951 - Montpellier	11	1,4%
BGPI UMR 385 - Montpellier	11	1,4%
Qualisud UMR 95 - Montpellier	11	1,4%
VASSAL UE 1057 - Montpellier	11	1,4%
IPME UMR 186 - Montpellier	10	1,2%
LBE UR 50 - Narbonne	10	1,2%

Source Web of Science™ Clarivate Analytics – Vigne & Vin 2008-2018, traitement Inra SDAR Montpellier Occitanie mai 2019

Principales entreprises et organisations région Languedoc Roussillon	Nb. publications V&V 2008-2018
IFV Inst Français Vigne & Vin - FR	56
Nyséos - FR	9
Nomacorc SA - FR	8
ICV Inst Coop Vin - FR	7
ITK - FR	5
Anses - FR	4
USDA ARS Agr Res Serv - FR	4
Chambres Agr - FR	3
Elisol Env - FR	3
Fruition Sci - FR	3
Oenobrands SAS - FR	3
AdVini - FR	1
Akinao - FR	1
Caudalie - FR	1
Chr Hansen AS - FR	1
Domaine Cazes - FR	1
Fytexia SAS - FR	1
Grp GrapSud - FR	1
ICB OEnol - FR	1
INOZY - FR	1
Lab Dubernet Oenol - FR	1
Ondalys - FR	1
OPIE Off Insectes & Env - FR	1
Pellenc Pera SA - FR	1
Viti Oeno Conseil - FR	1
VIVELYS - FR	1

Source Web of Science™ Clarivate Analytics – Vigne & Vin 2008-2018, traitement Inra SDAR Montpellier Occitanie mai 2019

Les forces V&V en région Occitanie

unités de recherche

Région Occitanie	Principales unités	Nb. publications V&V 2008-2018
Languedoc-Roussillon	SPO UMR 1083 - Montpellier	266
Languedoc-Roussillon	AGAP UMR 1334 - Montpellier	150
Languedoc-Roussillon	Pech Rouge UE 999 - Gruissan	60
Languedoc-Roussillon	ITAP UMR - Montpellier	54
Languedoc-Roussillon	LISAH UMR 1221 - Montpellier	40
Midi Pyrénées	LGC UMR 5503 - Toulouse	39
Languedoc-Roussillon	SYSTEM UMR 1230 - Montpellier	35
Languedoc-Roussillon	LEPSE UMR 759 - Montpellier	30
Languedoc-Roussillon	Genovigne UMT - Montpellier	16
Languedoc-Roussillon	CBGP UMR 1062 - Montpellier	16
Languedoc-Roussillon	IATE UMR 1208 - Montpellier	15
Languedoc-Roussillon	MISTEA UMR 729 - Montpellier	15
Languedoc-Roussillon	Nutripass UMR 204 - Montpellier	14
Languedoc-Roussillon	IBMM UMR 5247 - Montpellier	14
Languedoc-Roussillon	ISEM UMR 5554 - Montpellier	14
Languedoc-Roussillon	MRM EA - Montpellier	12
Midi Pyrénées	CESBIO USC 1439 - Toulouse	11
Languedoc-Roussillon	INNOVATION UMR 951 - Montpellier	11
Languedoc-Roussillon	BGPI UMR 385 - Montpellier	11
Languedoc-Roussillon	Qualisud UMR 95 - Montpellier	11
Languedoc-Roussillon	VASSAL UE 1057 - Montpellier	11
Midi Pyrénées	GBF UMR 990 - Toulouse	10
Languedoc-Roussillon	IPME UMR 186 - Montpellier	10
Languedoc-Roussillon	LBE UR 50 - Narbonne	10

Source Web of Science™ Clarivate Analytics – Vigne & Vin 2008-2018, traitement Inra SDAR Montpellier Occitanie mai 2019

Les forces V&V en région Occitanie
entreprises et acteurs techniques

Région Occitanie	Principales entreprises et organisations région Occitanie	Nb. publications V&V 2008-2018
Languedoc-Roussillon / Midi-Pyrénées	IFV Inst Français Vigne & Vin - FR	73
Midi-Pyrénées	Lallemand Inc - FR	46
Languedoc-Roussillon	Nyséos - FR	9
Languedoc-Roussillon	Nomacorc SA - FR	8
Languedoc-Roussillon	ICV Inst Coop Vin - FR	7
Midi-Pyrénées	ACTIchem - FR	5
Languedoc-Roussillon	ITK - FR	5
Midi-Pyrénées	Airbus Grp - FR	4
Languedoc-Roussillon	Chambres Agr - FR	3
Midi-Pyrénées	Ctr Viticulture & OEnol Midi Pyrénées - FR	3
Languedoc-Roussillon	Elisol Env - FR	3
Languedoc-Roussillon	Fruition Sci - FR	3
Languedoc-Roussillon	Oenobrands SAS - FR	3
Midi-Pyrénées	TerraNIS - FR	2

Source Web of Science™ Clarivate Analytics – Vigne & Vin 2008-2018, traitement Inra SDAR Montpellier Occitanie mai 2019

Mots-clés des Unités de la KIM V&W

Unités LR	nb publications	Principaux mots-clés (nb occurrences)	Mots-clés spécifiques
SPO UMR 1083	266	wine (46) Saccharomyces cerevisiae (17) wine fermentation (14) Fermentation (14) yeast (13) polysaccharides (13) Vitis vinifera (12) Polyphenols (12) Nitrogen (12) oligosaccharides (12)	oligosaccharides + (12) Fermentation + (14) polysaccharides + (13) mannoproteins + (5) Wine yeast + (9) Saccharomyces cerevisiae + (17) wine fermentation + (14) Proanthocyanidins + (8) Alcoholic fermentation + (10) Adaptive evolution + (5)
AGAP UMR 1334	150	Grapevine (28) Vitis vinifera (25) Vitis vinifera L. (13) Vitis (7) microsatellites (7) Domestication (6) QTL (6) Genetic diversity (6) SSR (6) Grape (5)	microsatellites + (7) Genetic diversity + (6) SSR + (6) Genetic structure + (4) microsatellite markers + (4) powdery mildew + (4) QTL + (6) microvine + (4) Vitis + (7) Vitis vinifera L + (4)
ITAP UMR	54	Precision viticulture (8) Vitis vinifera (6) vine water status (6) viticulture (5) vineyard (4) Water stress (3) spatial variability (3) Vitis vinifera L. (2) Grapevine (1) Grape (1)	Precision viticulture + (8) vine water status + (6) spatial variability + (3) viticulture + (5) Water stress + (3) surface runoff + (1) vine + (1) vineyard + (4) Vitis vinifera L + (1) water deficit + (1)
Pech Rouge UE 999	60	wine (9) Grapevine (7) Vitis vinifera (5) yeast (4) Winemaking (4) vine water status (4) wine fermentation (3) Alcoholic fermentation (3) Aroma (3) Modeling (3)	Sensory analysis + (3) vine water status + (4) Adaptive evolution + (2) Winemaking + (4) Syrah + (2) terroir + (2) Alcoholic fermentation + (3) Aroma + (3) Modeling + (3) Temperature + (3)
LISAH UMR 1221	40	vineyard (10) viticulture (3) spatial variability (3) Climate change (2) vine water status (2) surface runoff (2) Vitis vinifera (1) Grapevine (1) Precision viticulture (1) Cover crop (1)	spatial variability + (3) surface runoff + (2) vineyard + (10) vine water status + (2) Validation + (1) viticulture + (3) sorption + (1) Climate change + (2) Modelling + (1) Precision viticulture + (1)
SYSTEM UMR 1230	35	Vitis vinifera L. (13) Cover crop (9) Water balance (4) Intercropping (4) Grapevine (3) vineyard (3) Water stress (3) Modelling (3) surface runoff (3) water deficit (2)	Water balance + (4) Intercropping + (4) Cover crop + (9) surface runoff + (3) Modelling + (3) Vitis vinifera L. + (13) Water stress + (3) water deficit + (2) powdery mildew + (1) vine + (1)
LEPSE UMR 759	30	Grapevine (8) Vitis vinifera (7) Vitis vinifera L. (4) vineyard (4) Water stress (3) adaptation (3) QTL (2) Modelling (2) Temperature (2) water deficit (2)	adaptation + (3) Water stress + (3) Modelling + (2) rootstock + (1) water deficit + (2) powdery mildew + (1) QTL + (2) Temperature + (2) vineyard + (4) Syrah + (1)

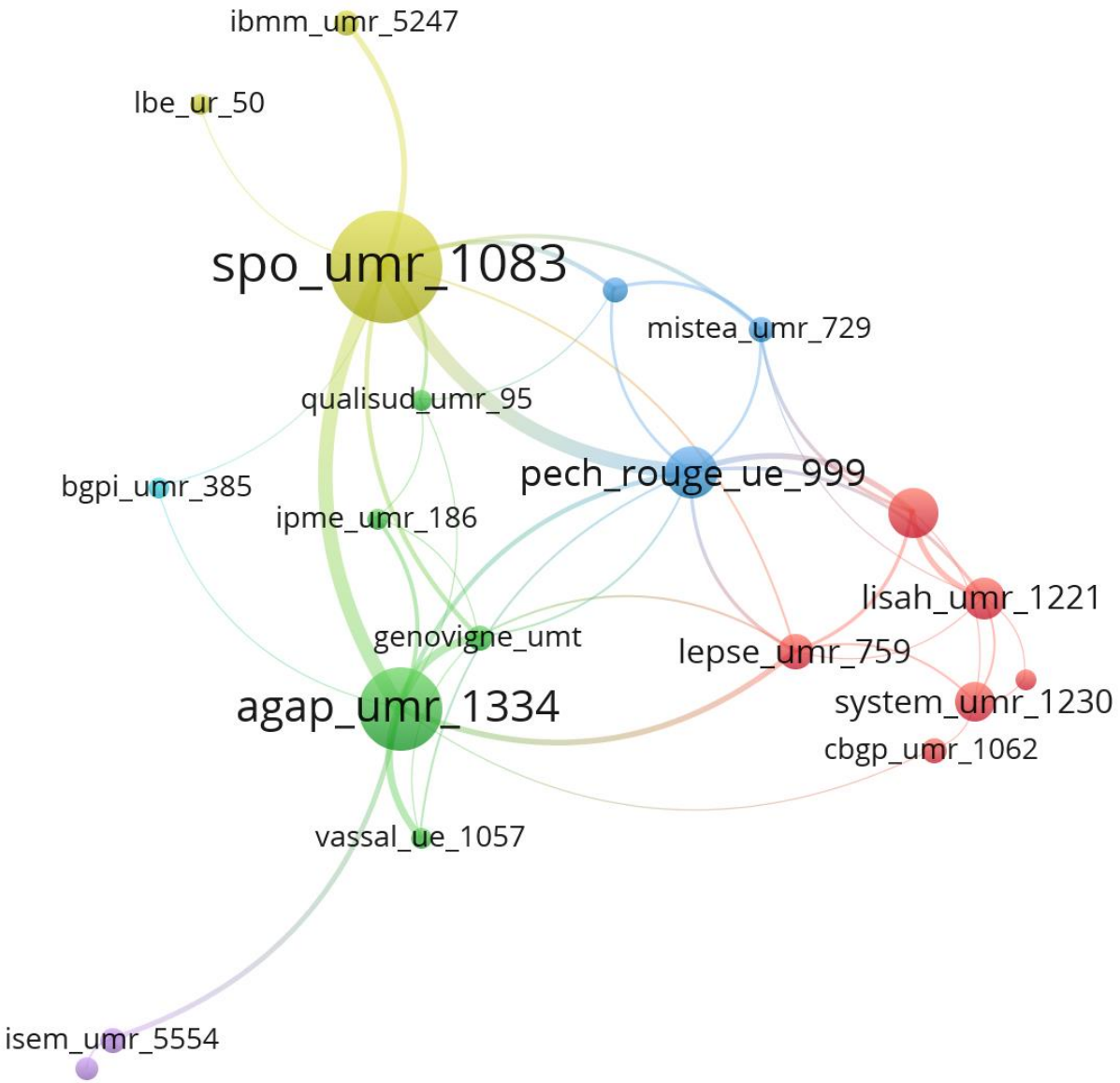
Mots-clés des Unités de la KIM V&W

Unités LR	nb publications	Principaux mots-clés (nb occurrences)
MISTEA UMR 729	15	winemaking (3) Saccharomyces_cerevisiae (2) Aroma_compounds (2) Data_integration (2) optimization (2) Viticulture (2)
MRM EA	12	wine (2) innovation (2) ROC_curve (2)
Vassal UE 1057	11	Grapevine (3) Berry_size (1) berry_weight (1) carpel_number (1) cell_number_and_volume (1) climate_warming (1) Flowering (1) Flowering_time (1) fruit_growth (1) fruit_size (1)
INNOVATION UMR 951	11	innovation (2) Languedoc (2)
BPMP UMR 386	**9**	in_situ_hybridization (3) Grapevine (2) expression_pattern (2) grape (2) Precursors (2)
Phymedexp U1046	7	Botrytis_cinerea (1) Cardioprotection (1) Cardiovascular_disease (1) Caspases (1) laccase (1) Laccase-2-BcLCC2 (1) Laccase-3-BcLCC7 (1) Mitochondria (1)
MOISA UMR 1110	3	Farm_diversification (1) French_wine_producers (1) Resource-Based_Perspective (1) Transaction_Costs_Economics (1) Vertical_integration (1))

Mots-clés des autres unités LR (hors KIM V&W)

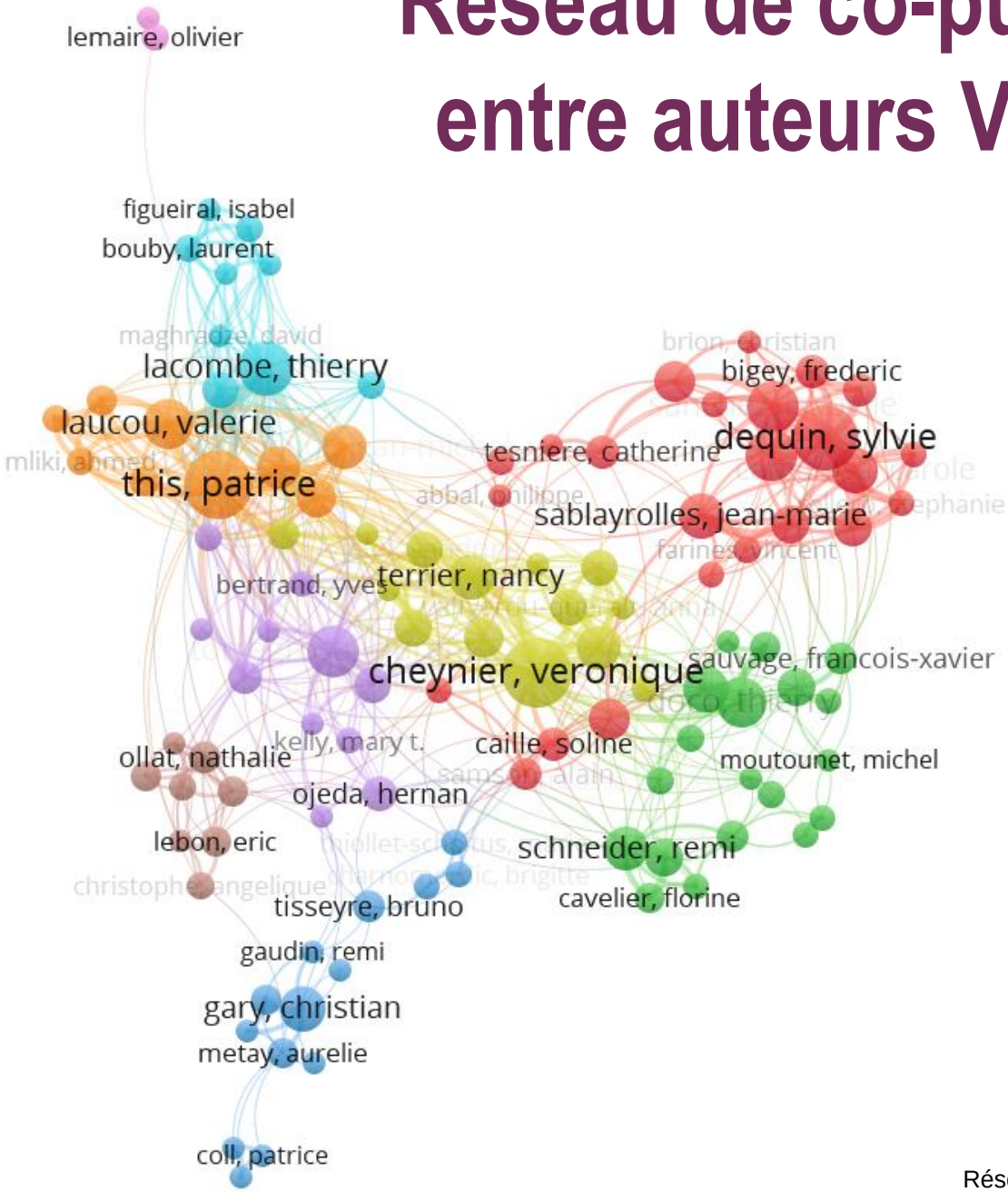
Unités LR	nb publications	Principaux mots-clés (nb occurrences)
Genovigne UMT	16	Vitis vinifera (2) Grapevine (2) anthocyanin (2) Vitis (1) Phenolic compounds (1) QTL (1) Temperature (1) water deficit (1) adaptation (1) Tannins (1)
CBGP UMR 1082	16	Vitis_vinifera (3) Climate_change (2) Pinus_pinea (2) Sorbus_domestica (2) viticulture (1) vineyard (1) biological_control (1) Cover_crop (1) tillage (1) Vitis (1)
IATE UMR 1208	15	PET (4) Oxygen_scavenger (3) Recycling (3) sorption (3) wine (2) vineyard (2) Data_integration (2) packaging (2) Winemaking (2) Polyphenols (1)
Nutripass UMR 204	14	oxidative_stress (7) Polyphenols (5) atherosclerosis (4) obesity (3) grape_seed_proanthocyanidins (2) hamster (2) hamsters (2) liver_inflammation (2) Rat (2) Antioxidant (1)
IBMM UMR 5247	14	wine (4) Precursors (3) Varietal_thiols (3) 3MH (2) diglycoside (2) flavan-3-ol (2) glycoside (2) mass_spectrometry (2) oxidative_stress (1) Vitis_vinifera (1)
ISEM UMR 5554	12	Archaeobotany (4) Vitis_vinifera (3) Roman_period (3) viticulture (2) Domestication (2) Southern_France (2) wine (1) diversity (1) Vitis (1)
BGPI UMR 385	11	gray_mold (2) Domestication (1) diversity (1)
Qualisud UMR 95	11	Aspergillus_carbonarius (2) Grape_juice (2) Phenolic_compounds (2) Vitis_vinifera (1) wine (1) biological_control (1) grapes (1) Ochratoxin_A (1) volatile_compounds (1)

Réseau de co-publications entre unités LR



Unités Languedoc-Roussillon : occurrences > 9

Réseau de co-publications entre auteurs V&V en LR



Réseau de co-occurrences réalisé avec VosViewer
Mots-clés auteur : occurrences > 4

Qualité des publications V&V LR
Revues de publications

Name	Rank	Web of Science Documents	Times Cited	% Docs Cited	Quartile	Journal Normalized Citation Impact	Impact Factor w/o Self Cites	Category Normalized Citation Impact
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	1	40	769	92.5%	Q1	0.83	3	1.35
FOOD CHEMISTRY	2	35	584	88.57%	Q1	0.91	4.45	1.77
JOURNAL INTERNATIONAL DES SCIENCES DE LA VIGNE ET DU VIN	3	24	461	95.83%	Q2	1.66	0.85	1.24
AUSTRALIAN JOURNAL OF GRAPE AND WINE RESEARCH	4	20	320	85%	Q1	0.85	1.77	1.38
BMC PLANT BIOLOGY	5	19	655	100%	Q1	1.51	3.79	2.46
VITIS	6	18	129	66.67%	Q2	1.3	0.74	0.8
PLOS ONE	7	17	259	88.24%	Q1	1.93	2.6	1.4
OENO ONE	8	11	18	45.45%	Q4	0.81	0.54	0.49
AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE	8	11	95	100%	Q1	0.78	1.58	0.74
EUROPEAN JOURNAL OF AGRONOMY	10	10	276	90%	Q1	1.09	2.96	2.55
PRECISION AGRICULTURE	11	9	165	77.78%	Q1	1.08	2.24	1.59
APPLIED AND ENVIRONMENTAL MICROBIOLOGY	11	9	241	100%	Q2	1.22	3.44	1.58

Qualité des publications LR V&V
Indicateurs d'impact de citations (InCites)

▼ Web of Science Documents	Category Normalized Citation Impact	Times Cited	% Docs Cited	% Documents in Q1 Journals	% Documents in Top 1%	% Documents in Top 10%	% International Collaborations
798	1.46	13,726	87.47%	66.89%	2.38%	17.67%	47.74%

A titre de comparaison – V&V région Aquitaine

Web of Science Documents	Category Normalized Citation Impact	▼ Times Cited	% Docs Cited	% Documents in Q1 Journals	% Documents in Top 1%	% Documents in Top 10%	% International Collaborations
996	1.35	15,238	88.35%	63.14%	1.41%	17.07%	39.66%

Publications V&V LR - Top 1% (12 Highly Cited Papers)

Francisco, RM et al. 2013, ABCC1, an ATP Binding Cassette Protein from Grape Berry, Transports Anthocyanidin 3-O-Glucosides PLANT CELL doi: 10.1105/tpc.112.102152, WOS:000321035800027, Wos Categories : Biochemistry & Molecular Biology; Plant Sciences; Cell Biology, **SPO UMR 1083** – 82 citations au 08/03/19

Carrascon, V et al., 2018, The kinetics of oxygen and SO2 consumption by red wines. What do they tell about oxidation mechanisms and about changes in wine composition? FOOD CHEMISTRY, doi: 10.1016/j.foodchem.2017.08.090, WOS:000411624400026, Wos Categories : Chemistry, Applied; Food Science & Technology; Nutrition & Dietetics, **SPO UMR 1083** - 10 citations au 08/03/19

Cavallini, E et al. 2015 The Phenylpropanoid Pathway Is Controlled at Different Branches by a Set of R2R3-MYB C2 Repressors in Grapevine PLANT PHYSIOLOGY, doi:10.1104/pp.114.256172, WOS:000354438500021, Wos Categories : Plant Sciences, **SPO UMR 1083** - 66 citations au 08/03/19

Terrier, N et al. 2009, Ectopic Expression of VvMybPA2 Promotes Proanthocyanidin Biosynthesis in Grapevine and Suggests Additional Targets in the Pathway, PLANT PHYSIOLOGY, doi: 10.1104/pp.108.131862, WOS:000263129400037, Wos Categories : Plant Sciences, **SPO UMR 1083 + AGAP UMR 1334** - 175 citations au 08/03/19

Lacombe, T et al. 2013, Large-scale parentage analysis in an extended set of grapevine cultivars (Vitis vinifera L.), THEORETICAL AND APPLIED GENETICS, doi : 10.1007/s00122-012-1988-2, WOS:000314055100010, Wos Categories : Agronomy; Plant Sciences; Genetics & Heredity; Horticulture: **AGAP UMR 1334** - 85 citations au 08/03/19

Laucou, V et al. 2011, High throughput analysis of grape genetic diversity as a tool for germplasm collection management, THEORETICAL AND APPLIED GENETICS, doi: 10.1007/s00122-010-1527-y, WOS:000288394200017, Wos Categories : Agronomy; Plant Sciences; Genetics & Heredity; Horticulture, **AGAP UMR 1334 + VASSAL UE 1057** - 117 citations au 08/03/19

Sadoudi, M et al. 2012, Yeast-yeast interactions revealed by aromatic profile analysis of Sauvignon Blanc wine fermented by single or co-culture of non-Saccharomyces and Saccharomyces yeasts, FOOD MICROBIOLOGY, doi: 10.1016/j.fm.2012.06.006, WOS:000309897200004, Wos Categories : Biotechnology & Applied Microbiology; Food Science & Technology; Microbiology, **Qualinnov UMT** - 133 citations au 08/03/19

Cerdan, O et al. 2010, Rates and spatial variations of soil erosion in Europe: A study based on erosion plot data, GEOMORPHOLOGY, doi:10.1016/j.geomorph.2010.06.011, WOS:000281181800013, Wos Categories : Geography, Physical; Geosciences, Multidisciplinary, **LISAH UMR 1221** - 287 citations au 08/03/19

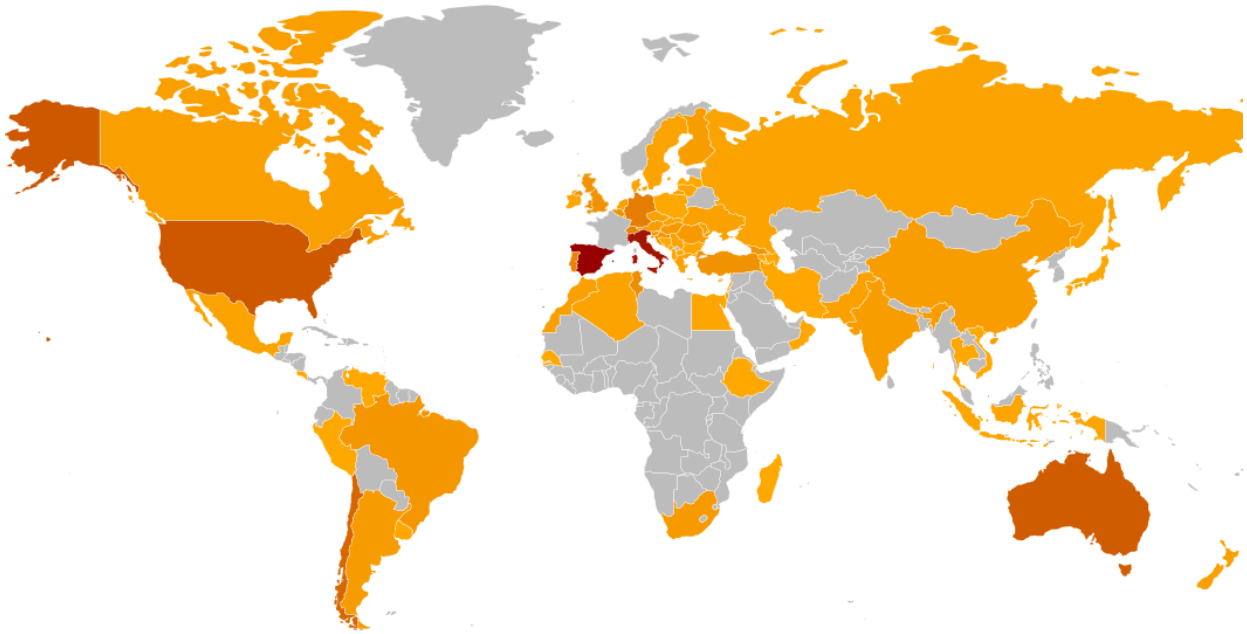
Pertot, I et al. 2017 A critical review of plant protection tools for reducing pesticide use on grapevine and new perspectives for the implementation of IPM in viticulture, CROP PROTECTION, doi: 10.1016/j.cropro.2016.11.025, WOS:000401677900009, Wos Categories : Agronomy, **SYSTEM UMR 1230** - 19 citations au 08/03/19

Varsani, A et al. 2017 Capulavirus and Grablovirus: two new genera in the family Geminiviridae ARCHIVES OF VIROLOGY doi:10.1007/s00705-017-3268-6, WOS:000401119300047, Wos Categories : Virology, **BGPI UMR 385** - 51 citations au 08/03/19

Bertsch, C et al. 2013, Grapevine trunk diseases: complex and still poorly understood, PLANT PATHOLOGY, doi: 10.1111/j.1365-3059.2012.02674.x, WOS:000316002900001, Wos Categories : Agronomy; Plant Sciences **– IFV** - 116 citations au 08/03/19

Van Leeuwen, C et al. 2009, Vine water status is a key factor in grape ripening and vintage quality for red Bordeaux wine. how can it be assessed for vineyard management purposes? JOURNAL INTERNATIONAL DES SCIENCES DE LA VIGNE ET DU VIN, WOS:000270327600001, Wos Categories : Food Science & Technology; Horticulture – **Consultant Viticulture** - 179 citations au 08/03/19

Pays partenaires de V&V LR



Name	Rank	Web of Science Documents	Category Normalized Citation Impact	Times Cited
FRANCE	1	798	1.46	13,726
SPAIN	2	89	2.08	1,366
ITALY	3	78	2.59	1,711
USA	4	43	2.24	898
AUSTRALIA	5	41	1.74	606
CHILE	6	36	1.7	518
GERMANY (FED REP GER)	7	24	4.3	603
SWITZERLAND	8	21	2.21	679
PORTUGAL	8	21	4.1	749
TUNISIA	10	15	1.05	231
UNITED KINGDOM	11	13	2.59	423
BELGIUM	11	13	2.5	564

Partenaires étrangers de V&V LR

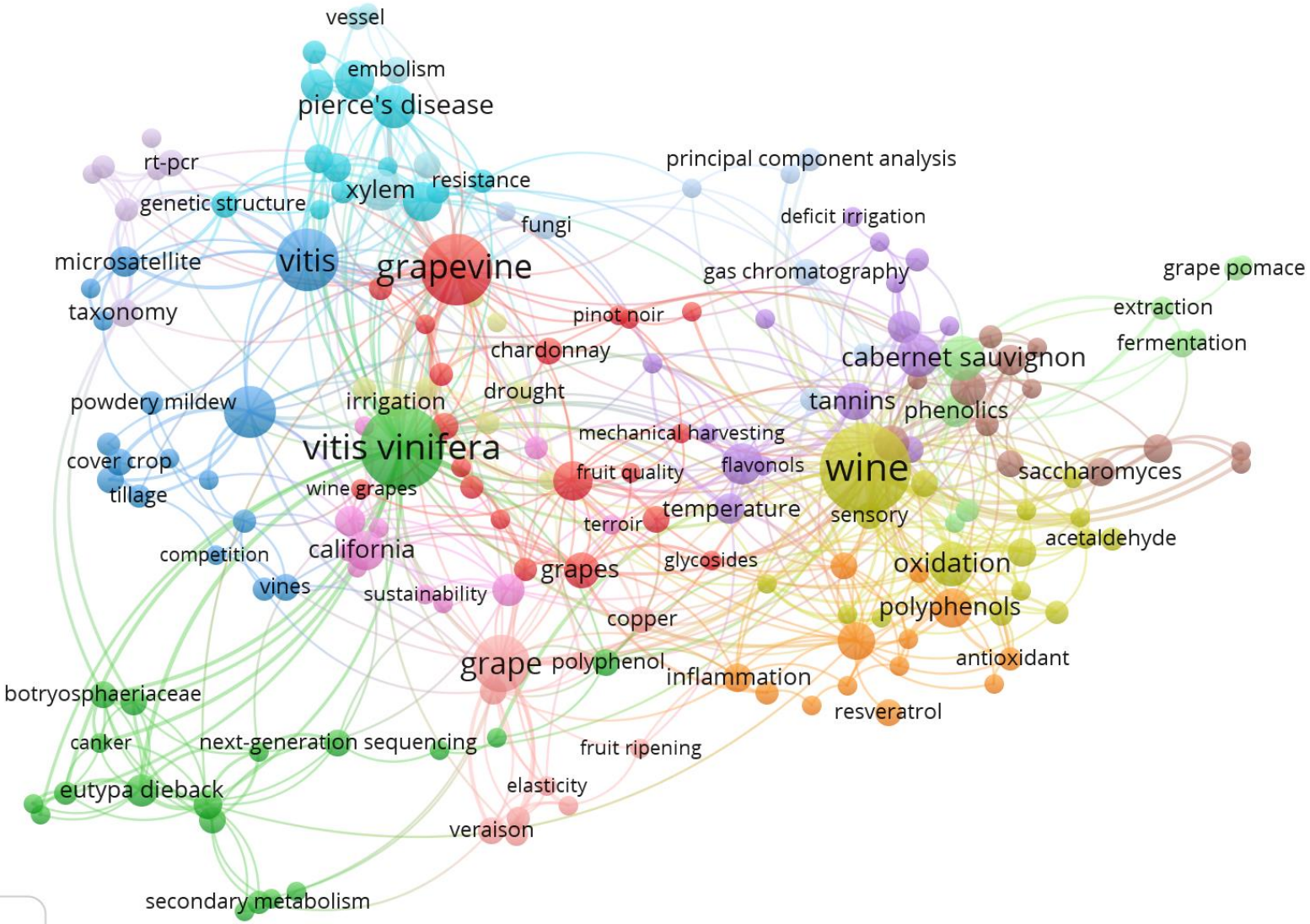
Consejo Superior de Investigaciones Cientificas (CSIC)	1	28	2.57	476
Universidad de Talca	2	19	1.33	295
CSIC-CAR-UR - Instituto de Ciencias de la Vid y del Vino (ICVV)	3	16	2.45	166
Commonwealth Scientific & Industrial Research Organisation (CSIRO)	3	16	1.35	350
Universidad de La Rioja	5	15	2.58	169
Fondazione Edmund Mach	6	14	2.06	446
University of California System	6	14	1.38	348
University of Zagreb	8	11	1.97	117
University of California Davis	8	11	1.38	297
Consiglio Nazionale delle Ricerche (CNR)	8	11	1.77	201
Pontificia Universidad Catolica de Chile	11	10	2.59	145
Centre de Biotechnologie de Borj Cedria	11	10	0.78	100
University of Milan	13	9	1.49	87
University of Melbourne	13	9	1.68	56
Consiglio per la Ricerca in Agricoltura e L'analisi Dell'economia Agraria (CREA)	13	9	5.55	148
University of Florence	16	8	3.18	158
Charles Sturt University	16	8	1.19	31
University of Padua	16	8	1.62	98
CIBER - Centro de Investigacion Biomedica en Red	16	8	1.32	79
CIBEROBN	16	8	1.32	79
University of Barcelona	21	7	3.07	210
Instituto de Salud Carlos III	21	7	1.29	67
United States Department of Agriculture (USDA)	21	7	1.73	105

Benchmarking

Principales institutions étrangères

	Nb. publications V&V 2008-2019*	% publications V&V Monde
Univ Calif Davis - US	756	2,1%
Stellenbosch Univ - ZA	472	1,3%
Univ La Rioja UR - ES	468	1,3%
Univ Adelaide - AU	457	1,2%
Cornell Univ - US	414	1,1%
AWRI Australian Wine Res Inst - AU	364	1,0%
Univ Castilla La Mancha UCLM - ES	330	0,9%
Charles Sturt Univ - AU	264	0,7%
Univ Zaragoza UNIZAR - ES	193	0,5%
[Languedoc Roussillon V&V]	[809]	

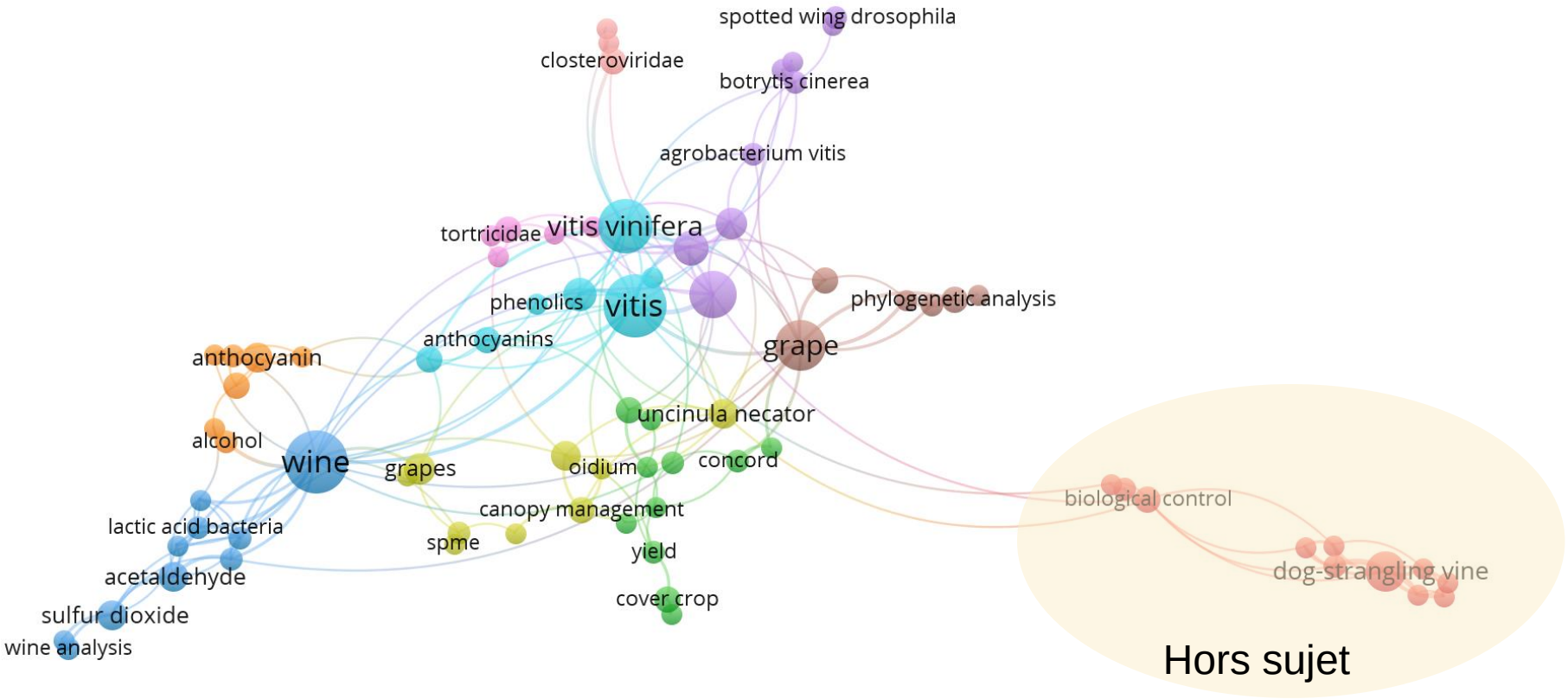
Univ Calif Davis - US



VOSviewer

Principaux mots-clés (seuil > 3 occurrences)

Cornell Univ - US



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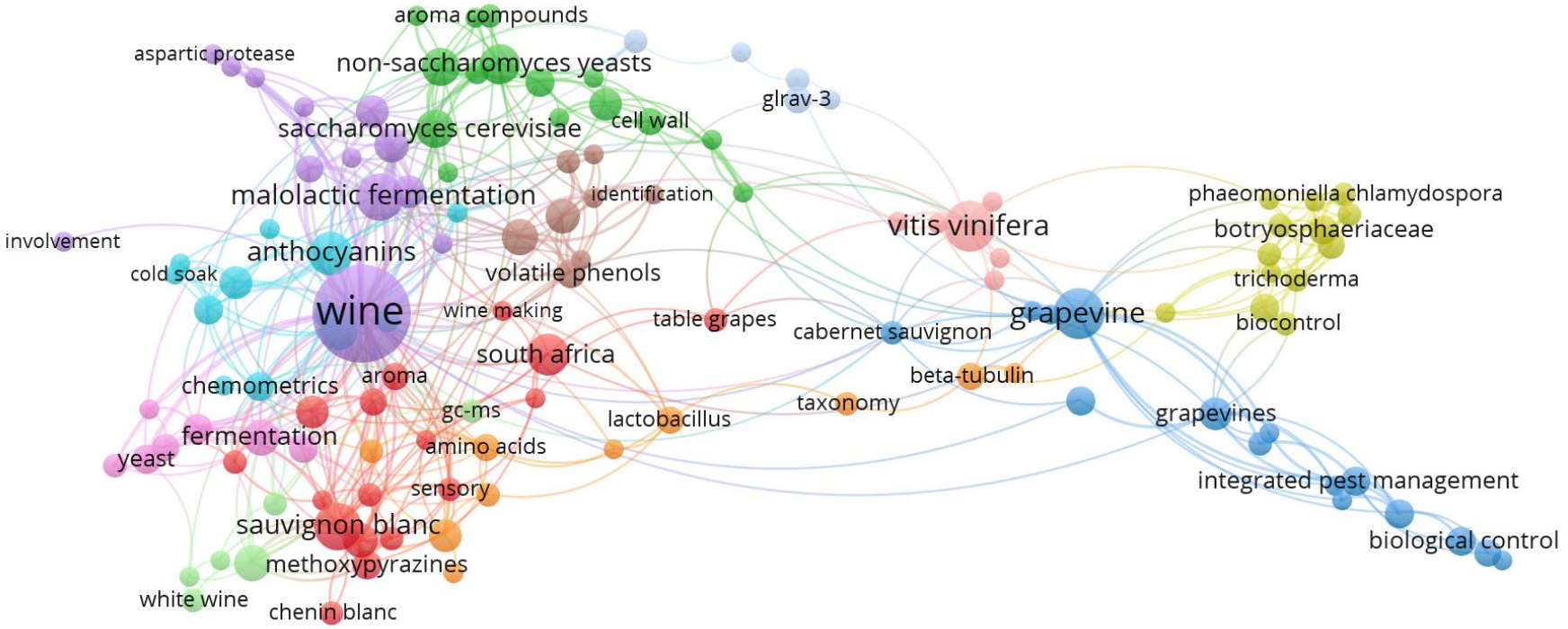
Stellenbosch Univ - ZA



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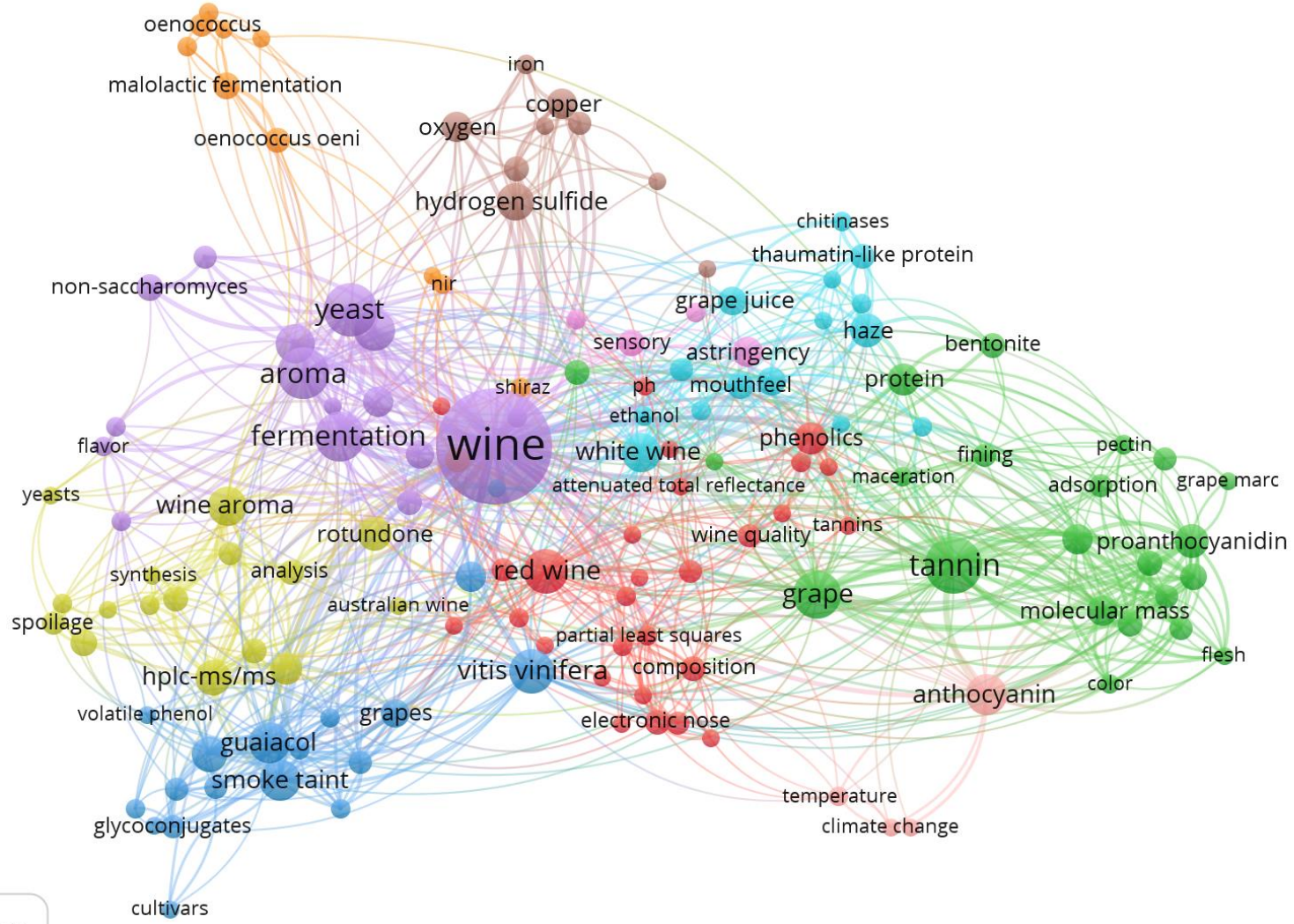
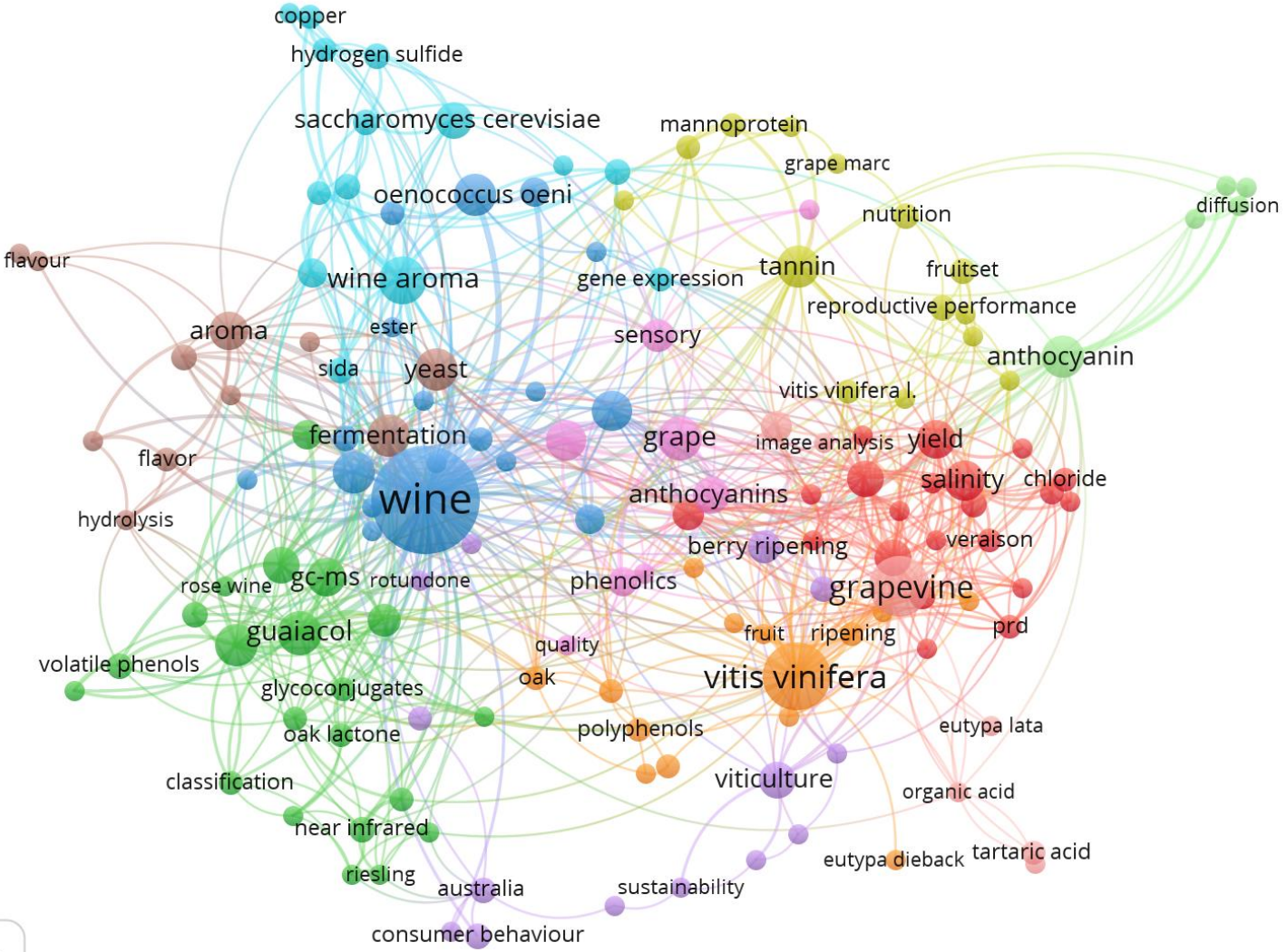
Principaux mots-clés (seuil > 3 occurrences)

AWRI Australian Wine Res Inst - AU



Principaux mots-clés (seuil > 3 occurrences)

Univ Adelaide - AU



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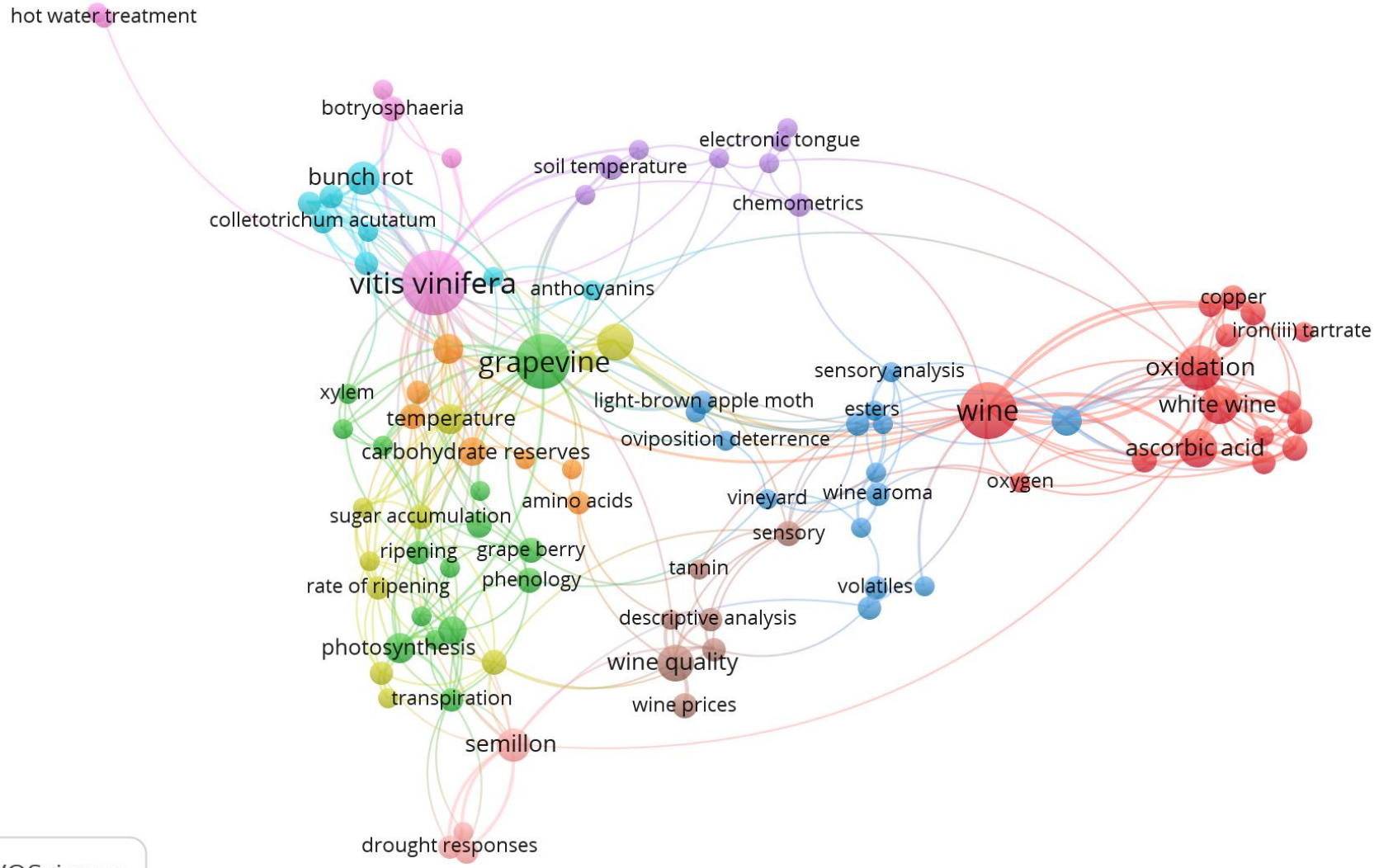
Principaux mots-clés (seuil > 3 occurrences)

Charles Sturt Univ - AU



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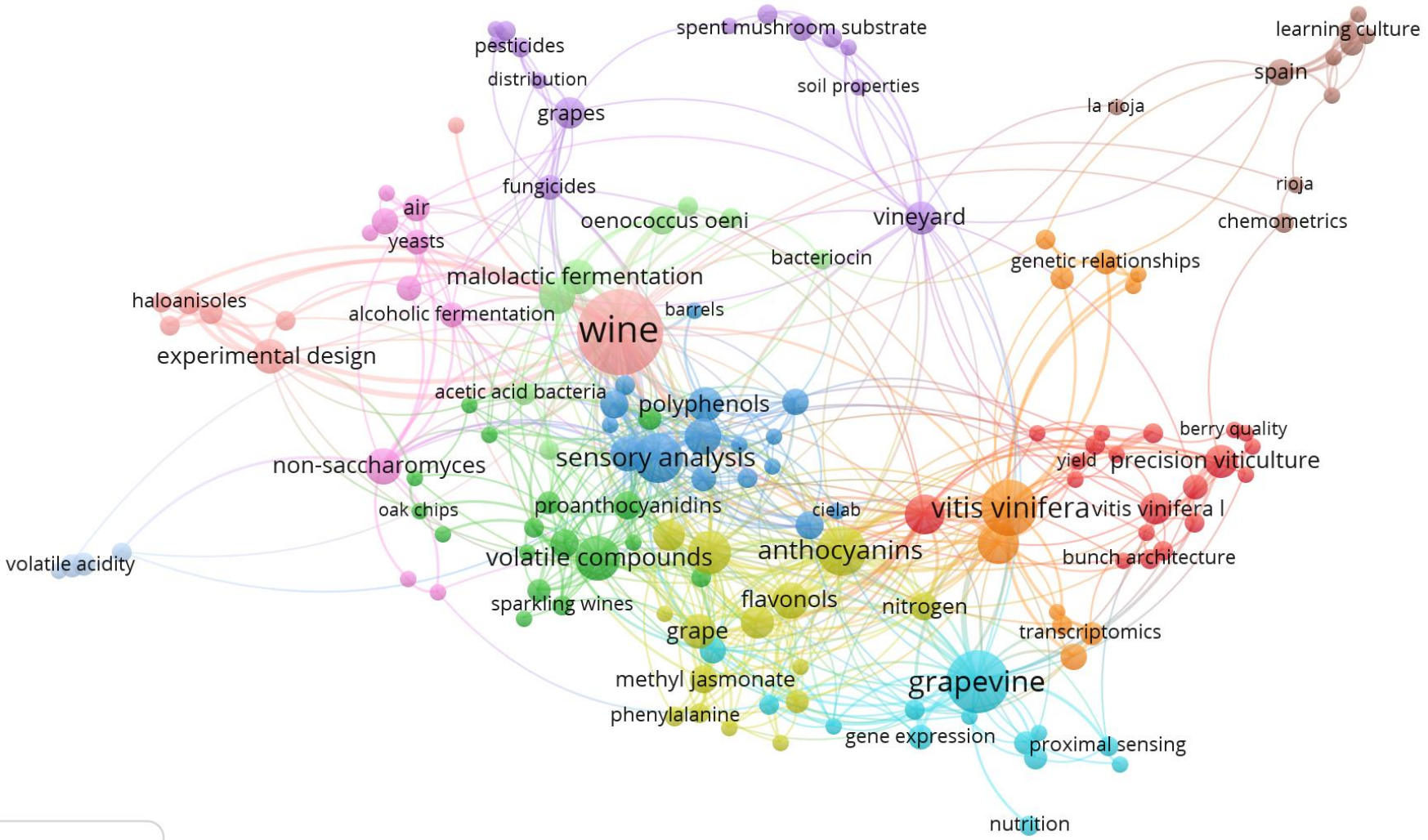
Principaux mots-clés (seuil > 3 occurrences)

Univ La Rioja UR - ES



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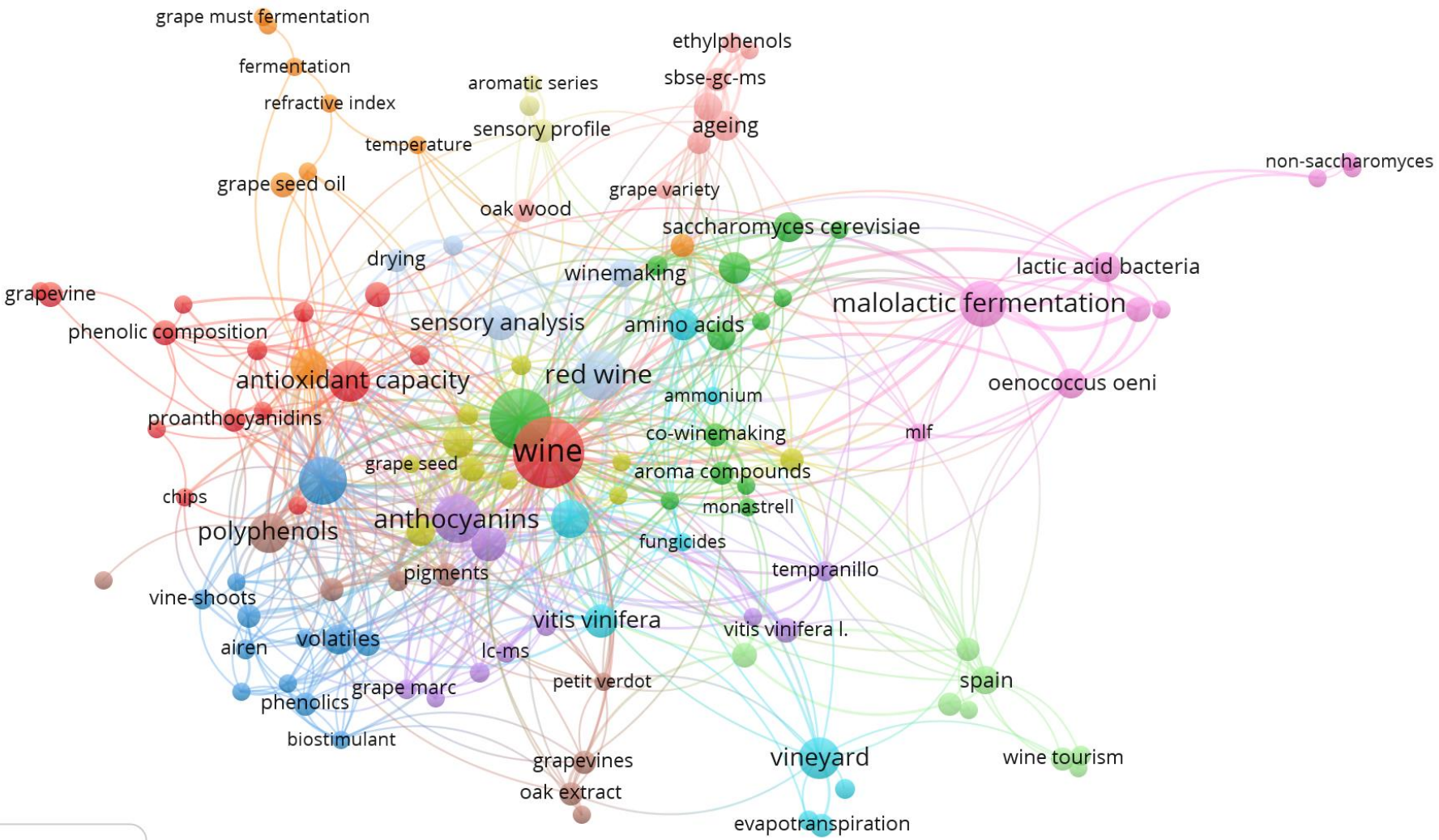
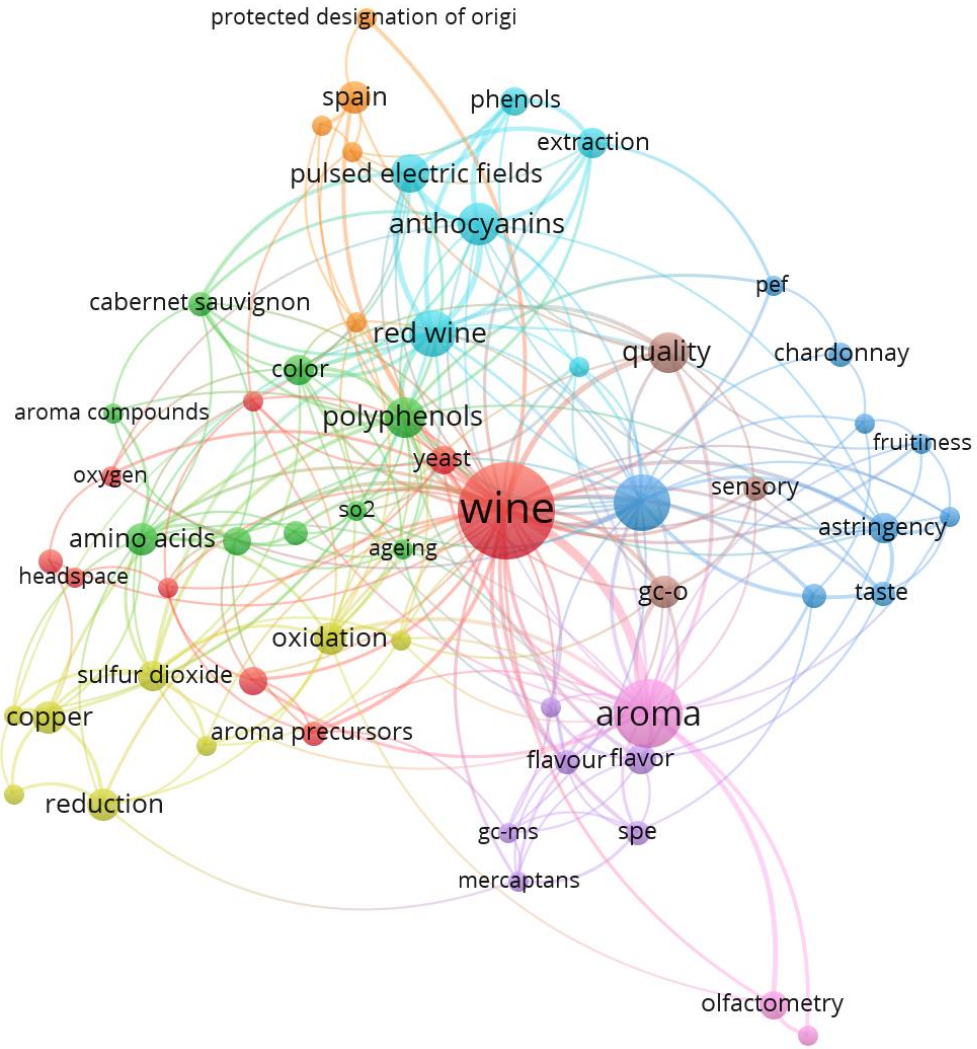
Principaux mots-clés (seuil > 3 occurrences)

Univ Castilla La Mancha UCLM - ES



Principaux mots-clés (seuil > 3 occurrences)

Univ Zaragoza UNIZAR - ES



VOSviewer

Principaux mots-clés (seuil > 3 occurrences)

Institutions et mots-clés

---	Principaux mots-clés	Mots-clés spécifiques
Univ Calif Davis - US (756)	wine (59) Vitis vinifera (51) grapevine (36) Vitis (28) Grape (23) vineyard (19) Oxidation (15) Cabernet Sauvignon (14) red wine (13) Pierce's disease (13)	California + (11) Xylella fastidiosa + (11) Genetic diversity + (11) Pierce's disease + (13) Agriculture + (7) xylem + (12) Eutypa dieback + (8) flavonoids + (10) Genetic structure + (5) Vines + (5)
Stellenbosch Univ - ZA (472)	wine (64) Vitis vinifera (18) grapevine (18) Malolactic fermentation (15) Sauvignon blanc (15) anthocyanins (13) South Africa (12) Non-Saccharomyces yeasts (11) Saccharomyces cerevisiae (10) phenolics (10)	South Africa + (12) Non-Saccharomyces yeasts + (11) Sauvignon blanc + (15) Brettanomyces bruxellensis + (8) Wine fermentation + (10) grape pomace + (7) Lactobacillus + (5) integrated pest management + (6) Wine spoilage + (4) Botryosphaeriaceae + (6)
Cornell Univ - US (414)	wine (27) Vitis (27) Vitis vinifera (20) Grape (18) grapevine (16) Dog-strangling vine (11) powdery mildew (9) disease resistance (8) grapes (7) Erysiphe necator (7)	Dog-strangling vine + (11) disease resistance + (8) Erysiphe necator + (7) powdery mildew + (9) integrated pest management + (6) Vitis + (27) Closteroviridae + (5) cover crop + (5) wine analysis + (4) Transcriptome + (5)
Univ La Rioja UR - ES (468)	wine (68) grapevine (37) Vitis vinifera (29) anthocyanins (23) Sensory analysis (23) volatile compounds (19) amino acids (18) Vitis vinifera L. (16) Tempranillo (15) red wine (13)	Experimental design + (12) Foliar application + (10) Must + (9) Tempranillo + (15) Vitis vinifera L + (9) mannoproteins + (5) stem water potential + (5) image analysis + (6) precision viticulture + (10) winery + (7)
Univ Adelaide - AU (457)	wine (80) Vitis vinifera (31) grapevine (25) wine aroma (16) Guaiacol (14) Grape (13) fermentation (12) Yeast (12) Oenococcus oeni (12) Tannin (12)	Salinity + (11) berry shrivel + (7) Shiraz + (11) Sodium + (4) Guaiacol + (14) Descriptive analysis + (12) Smoke taint + (12) Principal component analysis + (9) berry ripening + (8) nutrition + (5)
Univ Castilla La Mancha UCLM - ES (330)	wine (45) volatile compounds (33) red wine (22) anthocyanins (21) Phenolic compounds (20) Malolactic fermentation (19) Antioxidant capacity (16) vineyard (15) polyphenols (14) Grape (13)	Antioxidant capacity + (16) phenolic composition + (6) Antioxidant activity + (8) wine aging + (6) Winery wastewater + (7) ageing + (8) Phenolic compounds + (20) Red wines + (7) Stilbenes + (6) volatile compounds + (33)
AWRI Australian Wine Res Inst - AU (364)	wine (124) Tannin (30) Yeast (27) Aroma (25) fermentation (24) Grape (21) red wine (19) Vitis vinifera (18) Saccharomyces cerevisiae (16) anthocyanin (16)	haze + (11) molecular mass + (9) Phloroglucinolysis + (7) protein + (10) Proanthocyanidin + (11) rotundone + (11) HPLC-MS/MS + (12) Composition + (6) Flavour + (15) mouthfeel + (7)
Charles Sturt Univ - AU (264)	Vitis vinifera (31) wine (23) grapevine (22) Oxidation (15) White wine (11) Ascorbic acid (11) viticulture (10) wine quality (10) Bunch rot (8) Semillon (8)	Semillon + (8) Ascorbic acid + (11) Bunch rot + (8) photosynthesis + (7) grape berry + (5) modelling + (4) Phenology + (5) Oxidation + (15) fruit + (3) water deficit + (3)
Univ Zaragoza UNIZAR - ES (193)	wine (59) Aroma (30) Sensory analysis (20) red wine (14) anthocyanins (12) polyphenols (11) quality (11) Pulsed electric fields (10) Oxidation (7) amino acids (7)	Pulsed electric fields + (10) Extraction + (6) quality + (11) Spain + (7) Aroma + (30) Flavor + (6) Sensory analysis + (20) glycosides + (3) wine industry + (3) bitterness + (3)

Institutions et impact

Name	Web of Science Documents	Category Normalized Citation Impact	Times Cited	% Documents in Q1 Journals	Documents in Q1 Journals
University of California Davis	753	1,49	15358	67,9	427
Australian Wine Research Institute	363	1,65	8985	85,8	284
University of Adelaide	453	1,29	7493	77,6	302
Cornell University	406	1,24	6619	59,5	200
Stellenbosch University	458	1,03	6627	43,6	179
Universidad de La Rioja	447	1,37	6255	69,8	277
Universidad de Castilla-La Mancha	319	1,12	4320	61,0	169
University of Zaragoza	185	1,38	3500	78,4	134
Charles Sturt University	260	1,23	34801	64,7	145
Institut National de la Recherche Agronomique (INRA)	1553	1,45	30361	69,0	944
[Languedoc Roussillon V&V]	[809]	[1,49]	[14967]	67,2	448

InCites dataset updated Sept 26, 2019. Includes Web of Science content indexed through Aug 30, 2019.

Pour en savoir plus

Key Initiative MUSE (KIM) Montpellier Vine & Wine sciences

https://muse.edu.umontpellier.fr/key-initiatives-muse/vine-wine-sciences/