殺菌剤耐性菌に関する国内国外文献集（増補版）⑤（2024）

掲載論文題名	掲載誌名	巻	号	掲載ページ（スタート）	掲載ページ（エンド）	掲載年次	著者氏名	ＫＷ１	ＫＷ２	ＫＷ３	ＫＷ４	ＫＷ５	ＫＷ６	ＫＷ７	ＫＷ８	ＫＷ９	ＫＷ１０	ＫＷ１１
バチルス・ズブチリス水和剤成分菌の植物上における化学農薬感受性	日本植物病理学会報	90	1	27	27	2024	窪田昌春ら	Bacillus subtilis	シアゾファミド	フロニカミド	ヘキシアゾクス	プロピネブ	キャプタン	キノキサリン				
Corynespora cassiicolaの対峙培養による薬剤耐性及び関連遺伝子の変化	日本植物病理学会報	90	1	31	31	2024	石井英夫ら	褐色輪紋病	トマト	ダイズ	ボスカリド	アゾキシストロビン	チオファネートメチル	B-H278Y	G143A	E198A		
奈良県におけるQoI剤耐性トマト葉かび病菌の発生状況とピリベンカルブの防除効果	日本植物病理学会報	90	1	36	36	2024	浅野峻介ら	アゾキシストロビン	ピリベンカルブ	F129L								
トマト立枯病菌の各種殺菌剤に対する感受性評価	日本植物病理学会報	90	1	36	36	2024	川上拓ら	分生子ドロップ法	フルジオキソニル	QoI	ペノミル	MBC	DMI	トリフルミゾール	ジフェノコナゾール	DHODHI	イプフルフェノキン	
イチゴうどんこ病菌分離菌株に対する薬剤検定試験	日本植物病理学会報	90	1	36	36	2024	三田尾麻未ら	Podosphaera aphanis										
キク白さび病に対するインピルフルキサムとピラクロストロビンの防除効果とその感受性	日本植物病理学会報	90	1	36	36	2024	堀浩太朗ら	ピラクロストロビン	インピルフルキサム									
岡山県におけるイネばか苗病菌のDMI剤に対する感受性	日本植物病理学会報	90	3	163	163	2024	苧坂大樹ら	イネ	ばか苗病	DMI	プロクロラズ	ペフラゾエート	イプコナゾール	フルジオキソニル				
イチゴうどんこ病菌のメパニピリムに対する耐性菌の初確認	日本植物病理学会報	90	3	164	164	2024	浅野峻介ら	イチゴ	うどんこ病	メパニピリム								
高知県で発生するナス黒枯病菌のSDHI剤に対する感受性	日本植物病理学会報	90	3	237	237	2024	森實祐香ら	ナス	黒枯病	SDHI								
2022-2023年パラグアイ産ダイズさび病菌の薬剤感受性及び遺伝子解析	日本植物病理学会報	90	3	237	237	2024	萩原隆介ら	ダイズ	さび病	DMI	QoI	SDHI						
北海道におけるリンゴ黒星病の防除開始時期と防除薬剤の検討	北日本病害虫研報	75		50	54	2024	森万菜実	リンゴ	黒星病	シプロジニル、イミノクタジン酢酸塩、イプフルフェノキン、インピルフルキサム	9, M7, 52, 7	北海道						
リンゴ黒星病に治療効果を有する各種殺菌剤を用いた花蕾着色時期と開化直前の散布体系による防除効果	北日本病害虫研報	75		55	62	2024	猫塚修一	リンゴ	黒星病	DHODHI, DMI, SDHI	52, 3, 7	岩手県						
貯蔵リンゴ果実に発生するリンゴ黒星病の感染時期とフルオルイミド水和剤の防除効果	北日本病害虫研報	75		63	66	2024	十川聡子	リンゴ	黒星病	フルオルイミド	M11	青森県						
ナシ黒星病の「幸水」果実感染に対するSDHI剤およびDHODHI剤の防除効果	北日本病害虫研報	75		67	70	2024	藤田剛輝	ナシ	黒星病	イプフルフェノキン、インピルフルキサム	52, 7	福島県						
コムギ赤さび病菌のインピルフルキサムに対する感受性検定法	北日本病害虫研報	75		139	139	2024	岩川純也ら	コムギ	赤さび病	インピルフルキサム	7							
宮城県内で発生した灰色かび病の6種殺菌剤に対する感受性低下モニタリング	北日本病害虫研報	75		143	143	2024	格井晶吾	イチゴ、きゅうり、トマト	灰色かび病	ペンチオピラド、ボスカリド、メパニピリム、イミノクタジンアルベシル酸塩、アゾキシストロビン、フルジオキソニル	7,9,M7,11,12	宮城県						

青森県におけるリンゴ黒星病の多剤耐性菌の検出	北日本病害虫研報	75		145	146	2024	平山和幸	リンゴ	黒星病	MBC, DMI, QoI, AP, SDHI	1, 3,11,9, 7	青森県						
リンゴ褐斑病の二次感染期におけるピラジフルミド水和剤の防除効果	北日本病害虫研報	75		159	159	2024	日下部翔平ら	リンゴ	褐斑病	ピラジフルミド	7	福島県						
千葉県で採種されたサツマイモつる割病菌に対する薬剤の防除効果	関東東山病害虫研究会報	71		98	98	2024	青木由	サツマイモ	つる割病	ベノミル	防除効果							
奈良県での感受性検定に基づくトマト灰色かび病に対する有効な薬剤の探索	関西病虫害研究会報	66		11	16	2024	浅野峻介ら	トマト	灰色かび病	ジエトフェンカルブ	チオファネートメチル	アゾキシストロビン	イプロジオン	フルジオキソニル				
Monitoring of thiophanate-methyl-resistant strains of the fungi causing Fusarium head blight in Mie Prefecture, Japan	関西病虫害研究会報	66		20	26	2024	Kaori Nakajima et al.	コムギ	赤かび病	Fusarium graminearum species complex (FGSC)	チオファネートメチル	β2チューブリン	F200Y	F167Y	E198Q			
愛知県におけるトマト・イチゴ等灰色かび病菌のQoI・SDHI剤等16殺菌剤に対する感受性検定結果	関西病虫害研究会報	66		37	45	2024	堀川英則ら	トマト	イチゴ	灰色かび病	QoI	SDHI	ジカルボキシイミド	AP	PP	KRI	ビスグアジニン	フタルイミド
大阪府におけるイチゴ灰色かび病菌の薬剤感受性	関西病虫害研究会報	66		78	81	2024	田中貴幸ら	イチゴ	灰色かび病	QoI	SDHI	MBC	AP					
大分県におけるピーマン斑点病菌の薬剤感受性について	九州病害虫研究会報	70		58		2024	玉野井ら	Cercospora capsici	SDHI	QoI	11							
長野県農業における病害虫防除と課題	日本農薬学会誌	49	1	9		2024	岩波靖彦ら	Nagano Prefecture	agriculture	pest control	current issue							
イネいもち病菌銅輸送タンパク質MoICT1と殺菌剤フェリムゾンの相互作用の推定	日本農薬学会第50回大会講演要旨			113		2024	田中想ら	Magnaporthe oryzae	Pyricularia oryzae	FRACグループコード29	作用点推定							
山形県におけるイネばか苗病菌の種子消毒薬剤に対する感受性の検討	農業および園芸	100	2	107	117	2025	小関彩恵子ら	イネ	ばか苗病	プロクロラズ	DMI殺菌剤	日本	種子消毒					
化学農薬散布が葉面上の微生物農薬成分菌の生存に与える影響	植物防疫	78	2	96	101	2024	宮崎暁喜	トマト	バチルス アミロリクエファシエンス水和剤	微生物農薬	JAS有機	耐性菌対策	日本					
水稲病害の耕種的防除	植物防疫	78	2	118	125	2024	守川俊幸ら	イネ	水稲病害	耕種的防除	耐性菌対策	日本						
野菜病害における物理的・耕種的防除	植物防疫	78	4	230	235	2024	池田健太郎	野菜	野菜病害	耕種的防除	物理的防除	耐性菌対策	日本					
AS-qPCR法によるQoI剤耐性コムギうどんこ病のI1塩基変異の検出および愛知県内における本変異の分布調査への適用	植物防疫	78	10	584	587	2024	恒川健太ら	コムギ	うどんこ病	アゾキシストロビン	QoI殺菌剤	日本	AS-qPCR法	遺伝子変異識別				
福島県におけるモモ病害虫防除歴作成の考え方	植物防疫	78	10	594	601	2024	日下部翔平	モモ	灰星病	せん孔細菌病	グルコピラノシル抗生物質	DMI殺菌剤	QoI殺菌剤	SDHI殺菌剤	日本	防除歴	耐性菌対策	
トマト葉かび病に対する有効なSDHI剤の探索および高温処理による第一次伝染源の除去	植物防疫	78	11	632	638	2024	浅野峻介ら	トマト	葉かび病	イソフェタミド他	SDHI殺菌剤	日本	高温処理	交差耐性	耐性菌対策			

秋田県におけるリンゴ褐斑病のMBC剤およびDMI剤耐性菌の発生状況とその対策	植物防疫	78	12	679	685	2024	佐藤裕	リンゴ	褐斑病	シプロジニル	チオファネートメチル	テブコナゾール	AP殺菌剤	MBC殺菌剤	DMI殺菌剤	日本	耐性菌対策	
静岡県におけるカンキツ青かび病菌・緑かび病菌の薬剤感受性調査と防除対策	植物防疫	79	1	51	53	2025	石井香奈子ら	カンキツ	青かび病	緑かび病	貯蔵病害	ベノミル	チオファネートメチル	イミノクタジン酢酸塩	MBC殺菌剤	ビスグアニジン	日本	
大分県におけるピーマン斑点病菌の感受性について	植物防疫	79	2	67	75	2025	玉野井昭ら	ピーマン	斑点病	アゾキシストロビン他	ボスカリド他	QoI殺菌剤	SDHI殺菌剤	日本				
野菜病害における物理的防除－光の利用－	植物防疫	79	2	91	95	2025	窪田昌春	野菜	野菜病害	物理的防除	光	紫外線カット	近紫外線	緑色光	耐性菌対策	日本		
長野県におけるモモ病害虫防除歴作成の考え方	植物防疫	79	2	107	115	2025	近藤賢一	モモ	灰星病	せん孔細菌病	ストレプトマイシン	ベノミル他	グルコピラノシル抗生物質	MBC殺菌剤	日本	防除歴	耐性菌対策	
野菜病害における耕種的防除－抵抗性品種の利用－	植物防疫	79	3	158	163	2025	窪田昌春	野菜	野菜病害	耕種的防除	抵抗性品種	耐性菌対策	日本					
Comprehensive survey of copper resistance and analysis of responsible genes in Pseudomonas syringae pv. actinidiae biovar 1 and biovar 3 isolates from Japan	Journal of General Plant Pathology	90	3	134	143	2024	Aono Mitsuo et al.	kiwifruit	bacterial canker	copper	(Japan)	Copper resistance	Cop genes					
First report of fludioxonil resistance isolate of Colletotrichum fructicola emerging on strawberry in Japan	Journal of General Plant Pathology	90	4	180	186	2024	Furuta Akiko et al.	strawberry	anthracnose	fludioxonil	(Japan)							
Spatial Dependency in Stubble-Borne Pyrenophora teres f. teres and Influence of Sample Support Size on DNA Concentration and Fungicide Resistance Frequency	Phytopathology	114	1	269	281	2024	Leon M. Hodgson et al.	barley	Pyrenophora teres f. teres	DMI	CYP51A	net blotch	crop residues	hordeum vulgare	sample support size	sampling	spatial dependency	stubble-borne pathogen
Complete Genome Sequence of a Copper-Resistant Xanthomonas campestris pv. campestris Strain Isolated from Broccoli in Mauritius Suggests Adaptive Gene Gain Through Horizontal Gene Transfer	Phytopathology	114	2	328	333	2024	Claudine Boyer et al.	Crucifers	Xanthomonas campestris pv. campestris	copper	M1		adaptation	antimicrobial compounds	black rot	type III effectors		
Monitoring Corynespora cassiicola Resistance to Boscalid, Trifloxystrobin, and Carbendazim in China	Phytopathology	114	2	359	367	2024	Rongjia Zhou et al.	cucumber	Corynespora cassiicola	boscalid, carbendazim, trifloxystrobin	7, 1,11	China	multiple fungicide resistance	resistance monitoring				
Postinfection Application of Fenhexamid at Lower Doses in Conjunction with Captan Slowed Fungicide Resistance Selection in Botrytis cinerea on Detached Grape Berries	Phytopathology	114	2	368	377	2024	Stephen C. Boushell et al.	grape	Botrytis, gray mold	fenhexamid	17		resistance selection	fungicide resistance				
Non-Destructive Monitoring of Foliar Fungicide Efficacy with Hyperspectral Sensing in Grapevine	Phytopathology	114	2	464	473	2024	Nikita Gambhir et al.	grape	powdery mildew, Erysiphe necator			foliar traits	fungicide resistance	proximal sensing	residue	spectral reflectance	spectroradiometer	spectroscopy
Do Growers Using Solo Fungicides Affect the Durability of Disease Control of Growers Using Mixtures and Alternations? The Case of Spot-Form Net Blotch in Western Australia	Phytopathology	114	3	590	602	2024	Joe Helps et al.	barley	net blotch, Pyrenophora teres f. maculata	DMI, SHDI	3, 7	Australia	alternations	ascospores, conidia	fungicide effective life	fungicide treatment programs	mixture, solo	gene flow
Functional Roles of Two β-Tubulin Isotypes in Regulation of Sensitivity of Colletotrichum fructicola to Carbendazim	Phytopathology	114	4	690	699	2024	Yuanye Zhu et al.	tea-oil tree	Colletotrichum fructicola	carbendazim	1	China	mechanism of resistance	β-tubulin isotypes				
Binding Mode and Molecular Mechanism of the Two-Component Histidine Kinase Bos1 of Botrytis cinerea to Fludioxonil and Iprodione	Phytopathology	114	4	770	779	2024	Xueru Yin et al.		Botrytis cinerea	fludioxonil, iprodione	12, 2		histidine kinase	molecular docking	site-directed mutagenesis			
Sensitivity of Botrytis cinerea from Vineyards to Boscalid, Isofetamid, and Pydiflumetofen in Shandong Province, China	Phytopathology	114	5	1068	1074	2024	Lianzhu Zhou et al.	grape	Botrytis cinerea	SDHI	7	China	baseline sensitivity	fitness				

Genome-Wide Association Study of Fungicide Sensitivity in a Fusarium graminearum Population Collected from North Dakota	Phytopathology	114	5	1088	1096	2024	Bikash Poudel et al.	wheat	Fusarium graminearum, Fusarium head blight	tebuconazole, prothioconazole	3	baseline sensitivity	basic helix-loop-helix (BHLH)	f-box domain, g-patch domain	deoxynivalenol	genotyping by sequencing	RNA-dependent RNA polymerase	spore productivity, virulence
Identifying and Controlling Anthracnose Caused by Colletotrichum Taxa of Welsh Onion in Sanxing, Taiwan	Phytopathology	114	6	1263	1275	2024	Yu-Hsiang Yu et al.	Welsh onion	Colletotrichum dematium species complex	fluazinam, metiram, mancozeb, thiram, dithianon, trifloxystrobin	difenoconazole, tebuconazole	Taiwan	Colletotrichum spaethianum species complex	fungicide resistance	phylogeny	taxonomy		
Global Spread, Genetic Differentiation, and Selection of Barley Spot Form Net Blotch Isolates	Phytopathology	114	7	1542	1553	2024	Kealan Hassett et al.	Hordeum vulgare		DMI, tebuconazole	3		diversity arrays technology	fungicide resistance	soft selective sweeps			
Bioproducts of Pseudomonas chlororaphis Suppress DMI Fungicide-Induced CsCYP51A and CsCYP51B Gene Expression in Colletotrichum siamense and Generate Synergistic Effects with Metconazole and Propiconazole	Phytopathology	114	9	2064	2070	2024	Johanna Wesche et al.	cherry	Colletotrichum siamense	DMI, propiconazole, metconazole, difenoconazole, flutriafol	3		biological control	disease control and pest management	fungal pathogens			
Validation of Fungicide Spray Strategies and Selection for Fenhexamid Resistance in Botrytis cinerea on Greenhouse-Grown Grapevines	Phytopathology	114	10	2244	2251	2024	Stephen C. Boushell et al.	grape	Botrytis, gray mold	fenhexamid	17		resistance selection	fungicide resistance				
CbCyp51-Mediated Demethylation Inhibitor Resistance Is Modulated by Codon Bias	Phytopathology	114	10	2262	2272	2024	Lorena I. Rangel et al.	beet	Cercospora beticola	DMI, tetraconazole, prothioconazole, difenoconazole, mefentrifluconazole	3		CYP51	EC50	ergosterol	fungicide resistance	nonsynonymous mutation	synonymous mutation
Characterization of QoI-Fungicide Resistance in Cercospora Isolates Associated with Cercospora Leaf Blight of Soybean from the Southern United States	Plant Disease	108	1	149	161	2024	Bishnu K. Shrestha et al.	Cercospora cf. flagellaris	Cercospora kikuchii	Cercospora cf. sigesbeckiae	QoI	PCR-RFLP	CLB	G143A				
Resistance to Seven Site-Specific Fungicides in Botrytis cinerea from Greenhouse-Grown Ornamentals	Plant Disease	108	2	278	285	2024	Nicole T. Lukasko et al.	thiophanate-methyl	pyraclostrobin	boscalid	iprodione	fenhexamid	cyprodinil	fludioxonil	fluopyram	germination-based assay		
Fungicide Sensitivity of Fusarium oxysporum f. sp. lentis and Fusarium acuminatum Affecting Lentil in the Northern Great Plains	Plant Disease	108	2	286	290	2024	Collins Bugingo et al.	pyraclostrobin	prothioconazole	ipconazole	thiophanate-methyl	EC50	root rot					
Reevaluation of Sensitivity of Monilinia fructicola Isolates to the DMI Fungicide Propiconazole in the Southeastern United States and Investigation of the Genetic Element Mona	Plant Disease	108	2	375	381	2024	William P. Gura et al.	CYP51	demethylation inhibitor	DMI	discriminatory dose	Mona	propiconazole					
A Survey of Phytophthora spp. in Eastern Indian Nurseries and Their Sensitivity to Six Oomycete-Targeted Commercial Fungicides	Plant Disease	108	2	486	501	2024	Rikta Dhali et al.	biosecurity threat	fungicide sensitivity	ornamentals	Phytophthora nicotianae	Phytophthora palmivora	metalaxyl	mefenoxam, metalaxyl-M	mancozeb	mandipropamid	fosetyl	azoxystrobin
Resistance of the Ginseng Gray Mold Pathogen, Botrytis cinerea, to Boscalid and Pyraclostrobin Fungicides in China	Plant Disease	108	4	979	986	2024	Mo Yi Yue et al.	boscalid	fungicide resistance	gray mold	Panax ginseng	pyraclostrobin	G143A	sdhB-P225F, P225L, N230I, H272Y, H272R	sdhC-G85A, I93V, M158V, V168I			
Bipolaris fujianensis sp. nov., an Emerging Pathogen of Sapling Shoot Blight on Chinese Fir, and Its Sensitivity to Fungicides	Plant Disease	108	4	1025	1032	2024	Qinghua Zhang et al.	Bipolaris fujianensis	chemical control	Chinese fir	shoot blight	flusilazole, difenoconazole, tebuconazole, propiconazole	iprodione	azoxystrobin	Thiophanate-methyl	triazole	dicarboximide	thiram
Regional Comparisons of Sensitivities of Phytophthora citrophthora and P. syringae Causing Citrus Brown Rot in California to Four New and Two Older Fungicides	Plant Disease	108	6	1582	1590	2024	Nathan M. Riley et al.	mandipropamid	mefenoxam	metalaxyl-M								
Multistate Sensitivity Monitoring of Fusarium virguliforme to the SDHI Fungicides Fluopyram and Pydiflumetofen in the United States	Plant Disease	108	6	1602	1611	2024	Ryan Hamilton et al.	soybean	sudden death syndrome (SDS)	EC50	fluopyram	pydiflumetofen	monitoring					
Sensitivity of Phytophthora nicotianae in Tennessee and North Carolina to Mefenoxam, Oxathiapiprolin, Mandipropamid, and Fluopicolide	Plant Disease	108	6	1612	1620	2024	Taylor Miller et al.	black shank	EC50	oxathiapiprolin	mandipropamid	fluopicolide	mefenoxam, metalaxyl-M					
Sensitivity of Meloidogyne incognita, Fusarium oxysporum f. sp. niveum, and Stagonosporopsis citrulli to Succinate Dehydrogenase Inhibitors Used for Control of Watermelon Diseases	Plant Disease	108	6	1762	1768	2024	T. W. Wong et al.	SDHI	benzovindiflupyr	fluopyram	cyclobutrifluram	pydiflumetofen	mycelial growth assay	conidial germination				

Prevalence of FRAC Group 11 Fungicide Resistance in Stemphylium vesicarium Isolates, but Not S. beticola Isolates, Causing Stemphylium Leaf Spot of Spinach (Spinacia oleracea)	Plant Disease	108	7	2122	2135	2024	Kayla A. Spawton et al.	Spinach	Stemphylium leaf spot	azoxystrobin, pyraclostrobin	FRAC Group 11	USA	QoI	G143A				
Aggressive Alternaria brassicicola with Reduced Fungicide Sensitivity Can Be Associated with Naturally Infested Broccoli Seeds	Plant Disease	108	7	2154	2161	2024	Navjot Kaur et al.	Broccoli	Alternaria leaf blight and head rot	azoxystrobin	FRAC Group 11	USA	QoI	spore germination assay	EC50	seedborne		
Inhibitory Activities of Five Fungicides on Alternaria suffruticosae and Their Field Control Efficacy Against Tree Peony Black Spot	Plant Disease	108	9	2830	2837	2024	Ying Hou et al.	Tree Peony	Black Spot	pyraclostrobin, difenoconazole, flutolanil, boscalid	FRAC Group 3, FRAC Group 11, FRAC Group 7	China	QoI, DMI, SDHI	mycelial growth	conidial germination	germ tube length	sporulation quantity	EC50
Development and Implementation of a Novel CAPS Assay Reveals High Prevalence of a Boscalid Resistance Marker and Its Co-Occurrence with an Azole Resistance Marker in Erysiphe necator	Plant Disease	108	9	2607	2614	2024	Diána Seress et al.	grapevine	powdery mildew	SDHI, DMI	FRAC Group 3, FRAC Group 7	Hungary	sdhB-A794G (H242R)	CYP51-A495T (Y136F)				
Comparative Fitness of Monilinia fructicola Isolates with Multiple Fungicide-Resistant Phenotypes	Plant Disease	108	11	3300	3310	2024	Pamela S. S. Dutra et al.	peach, nectarine		thiophanate-methyl, tebuconazole, azoxystrobin	FRAC Group 1, FRAC Group 3, FRAC Group 11	Brazil	MBC, DMI, QoI	β-tubulin, H6Y mutation	CYP51, G641S mutation	Cyt b, Resistant isolates without G143A, F129L, or G137R mutations	multiple resistanc	fitness penalty
The HOG-pathway related AaOS1 leads to dicarboximide-resistance in field strains of Alternaria alternata and contributes, together with the Aafhk1, to mycotoxin production and virulence	Pest Management Science	80	6	2937	2949	2024	Lingling Wei et al.	garlic leaf spot	Alternaria alternata	dicarboximides	mutations	mycotoxin AOH	procymidone	iprodione	fludioxonil			
Sensitivity of Plasmopara viticola to selected fungicide groups and the occurrence of the G143A mutant in Australian grapevine isolates	Pest Management Science	80	8	3861	3872	2024	Ismail Ismail et al.	downy mildew	metalaxyl-M	pyraclostrobin	fungicide resistance	dimethomorph	ametoctradin	mandipropamid				
Molecular mechanism of reduced biological fitness of fludioxonil-resistant strains of Botrytis cinerea based on transcriptome analysis	Pest Management Science	80	9	4746	4756	2024	Xueru Yin et al.	Botrytis cinerea	fludioxonil	biological fitness	transcriptome	gene knockout	iprodione	boscalid	pyraclostrobin	tebuconazole	fluopyram	pyrimethanil
Exploring SDHI fungicide resistance in Botrytis cinerea through genetic transformation system and AlphaFold model-based molecular docking	Pest Management Science	80	11	5954	5964	2024	Haifeng Liu et al.	Botrytis cinerea	succinate dehydrogenase inhibitors	resistance mechanisms	molecular docking	boscalid	fluopyram	fluxapyroxad	isofetamid	pydiflumetofen	pyraziflumid	
DMI fungicide resistance in Zymoseptoria tritici is unlinked to geographical origin and genetic background: a case study in Europe	Pest Management Science	81	2	1103	1112	2024	Eula Gems Oreiro et al.	Septoria tritici blotch	population structure	fungicide resistance	CYP51	haplotypes						
Sensitivity of dominant UK Phytophthora infestans genotypes to a range of fungicide active ingredients	Plant Pathology	73	3	596	601	2024	James S. Lynott et al.	potato	potato late blight	*Phytophthora infestans*	QiI, cyazofamid	QiI, amisulbrom	CAA, mandipropamid	propamocarb	OSBPI, oxathiapiprolin	mancozeb	fluazinam	United Kingdom
Phenotype and genotype characterization of Botrytis cinerea isolates from cut roses in Yunnan, China	Plant Pathology	73	3	724	737	2024	Wenbin Yuan et al.	rose	gray mold	*Botrytis cinerea*	cyprodinil	procymidone	China					
Revisiting the intron hypothesis of QoI resistance in Phyllosticta ampelicida, the causal agent of grape black rot, and other Phyllosticta species	Plant Pathology	73	6	1491	1505	2024	Áron N. Horváth et al.	grape	black rot	*Phyllosticta ampelicida*	QoI, azoxystrobin, trifloxystrobin	Hungary	Portugal	Italy	Brazil	South Africa	Netherland	Thailand
Evolution of decreased sensitivity to azole fungicides in western European populations of Plenodomus lingam (Phoma stem canker on oilseed rape)	Plant Pathology	73	6	1517	1532	2024	Kevin M. King et al.	oil seed rape (OSR)	Phoma leaf spot	Phoma stem canker	*Plenodomus lingam*	DMI, prothioconazole, mefentrifluconazole	QoI, pyraclostrobin	SDHI, boscalid	Australia, Germany, France, Germany, Ireland	United States, United Kingdom		
Barley powdery mildew control in Western Australia and beyond	Plant Pathology	73	7	1666	1674	2024	Simon R. Ellwood et al.	barley	barley powdery mildew	*Blumeria hordei*	DMI	SDHI	QoI	Australia	spiroxamine	quinoxyfen		
Cercospora leaf blight and purple seed stain of soybean: A permanent challenge	Plant Pathology	73	8	1981	2004	2024	Francisco José Sautua et al.	soybean	Cercospora Leaf blight	Purple seed stain	*Cercospora kikuchii*	*Cercospora* cf. *flagellaris*	QoI	DMI	MBC	SDHI	QiI	South America
Sensitivity of Rhizoctonia solani to fertilizers and fungicides and their synergistic effects	Plant Pathology	74	2	378	388	2025	Meriem Maaoui et al.	potato	black scurf	*Rhizoctonia solani*	azoxystrobin	pencycuron	fludioxonil	Tunisia	superphosphate (P2O5), phosphoric acid (P2O5)	di-ammonium phosphate (P2O5)	ammonium nitrate (N)	potassium sulphate (K2O)

Assessing the potential risk of human pathogen resistance to medical antifungal treatments arising from agricultural use of fungicides with the same mode of action	Plant Pathology	74	2	578	594	2025	Neil Paveley et al.	human	fungicide resistance	*Aspergillus fumigatus*	DMI, prothioconazole, prochloraz, propiconazole	tebuconazole, cyproconazole, difenoconazole, flusilazole, epoxiconazole	Potential route for resistance to evolve in the landscape and transfer to humans	Human fungal pathogen	Agricultural fungicides	Medical antifungals	Resistance risk assessment	Dual-use fungicides
Resistance risk assessment of mefentrifluconazole in Corynespora cassiicola and the control of cucumber target spot by a two-way mixture of mefentrifluconazole and prochloraz	Pesticide Biochemistry and Physiology	198		105719		2024	Qin Peng et al.	cucumber	cucumber target spot	*Corynespora cassiicola*	Mefentrifluconazole	Prochloraz	China					
Efficacy of cyclobutrifluram in controlling Fusarium crown rot of wheat and resistance risk of three Fusarium species to cyclobutrifluram	Pesticide Biochemistry and Physiology	198		105723		2024	Haiyan Sun et al.	wheat	Fusarium crown rot	*Fusarium pseudograminearum*	*Fusarium asiaticum*	*Fusarium graminearum*	cyclobutrifluram	SDHI				
Ametoctradin resistance risk and its resistance-related point mutation in PsCytb of Phytophthora sojae confirmed using ectopic overexpression	Pesticide Biochemistry and Physiology	198		105747		2024	Tan Dai et al.	soybean	soybean Phytophthora blight	*Phytophthora sojae*	Ametoctradin	S33L	China					
The mechanisms of target and non-target resistance to QoIs in Corynespora Cassiicola	Pesticide Biochemistry and Physiology	198		105760		2024	Bingxue Sun et al.	cucumber	Corynespora leaf spot	*Corynespora cassiicola*	trifloxystrobin	QoI	G143A	China	iprodione	fludioxonil	penthiopyrad	thiophanate-methyl
Investigation of the antibacterial activity of benziothiazolinone against Xanthomonas oryzae pv. oryzae	Pesticide Biochemistry and Physiology	199		105768		2024	Xing Chen et al.	rice	bacterial leaf blight	*Xanthomonas oryzae* pv. oryzae	benziothiazolinone	China						
Analysis of resistance risk and mechanism of the 14α-demethylation inhibitor ipconazole in Fusarium pseudograminearum	Pesticide Biochemistry and Physiology	199		105786		2024	Guixiang Li et al.	wheat	Fusarium crown rot	*Fusarium pseudograminearum*	ipconazole	DMI	China					
Resistance risk, resistance mechanism and the effect on DON production of a new SDHI fungicide cyclobutrifluram in Fusarium graminearum	Pesticide Biochemistry and Physiology	199		105795		2024	Jianqiang Miao et al.	wheat	Fusarium head blight	*Fusarium graminearum*	cyclobutrifluram	SDHI	H248Y	A73V	China	pydiflumetofen, pyraclostrobin, tebuconazole, carbendazim, phenamacril		
Characterization of the fludioxonil and phenamacril dual resistant mutants of Fusarium graminearum	Pesticide Biochemistry and Physiology	200		105815		2024	Ziyue Wen et al.	wheat	Fusarium head blight	*Fusarium graminearum*	fludioxonil	phenamacril	double resistant mutant	carbendazim				
Risk assessment and molecular mechanism of Sclerotium rolfsii resistance to boscalid	Pesticide Biochemistry and Physiology	200		105806		2024	Song et al.	peanut	peanut sclerotium blight	*Sclerotium rolfsii*	boscalid	SDHI	China	flutolanil	thifluzamide	benzovindiflupyr	pydiflumetofen	azoxystrobin
Characterization of Fusarium species causing soybean root rot in Heilongjiang, China, and mechanism underlying the differences in sensitivity to DMI fungicides	Pesticide Biochemistry and Physiology	200		105828		2024	Can Zhang et al.	soybean	soybean root rot	*Fusarium* spp.	mefentrifluconazole	pydiflumetofen	prothioconazole	China	fludioxonil	phenamacril		
Application of thifluzamide to stem rot in peppers: Infection and control mechanisms of sclerotium rolfsii	Pesticide Biochemistry and Physiology	200		105846		2024	Dandan Song et al.	pepper	stem rot	*Sclerotium rolfsii*	thifluzamide	China						
Comparative transcriptome analysis provides insights into the resistance regulation mechanism and inhibitory effect of fungicide phenamacril in Fusarium asiaticum	Pesticide Biochemistry and Physiology	201		105848		2024	Zhitian Zheng et al.	wheat	Fusarium head blight	*Fusarium asiaticum*	phenamacril	transcriptome analysis	China					
Characteristics of fluopicolide-resistance mutants in Phytophthora nicotianae, the pathogen causing black shank disease in tobacco	Pesticide Biochemistry and Physiology	201		105876		2024	Xiaofei Liu et al.	tobacco	black shank disease	*Phytophthora nicotianae*	fluopicolide	baseline sensitivity	G765E	N769Y	China	dimethomorph, fluopimomide, metalaxyl, mancozeb, cyazofamid		
Resistance mechanism of Phomopsis longicolla to fludioxonil is associated with modifications in PlOS1, PlOS4 and PlOS5	Pesticide Biochemistry and Physiology	201		105862		2024	Lingling Wei et al.	soybean	soybean root rot	*Phomopsis longicolla*	fludioxonil	China	procymidone, pydiflumetofen, pyraclostrobin, fluazinam					
Sensitivity analysis and point mutations in BcSDHB confer cyclobutrifluram resistance in Botrytis cinerea from China	Pesticide Biochemistry and Physiology	201		105884		2024	Qin Peng et al.	*Botrytis cinerea*	cyclobutrifluram	SDHI	Sensitivity analysis	China	tebuconazole, fludioxonil, cyprodinil, iprodione					
Two point mutations N771S and K847N in the VHA-a of Phytophthora litchii confer resistance to fluopimomide	Pesticide Biochemistry and Physiology	202		105900		2024	Tan Dai et al.	litchi	litchi downy blight	*Phytophthora litchii*	fluopimomide	fluopicolide	N771S	K847N	China	dimethomorph, metalaxyl, azoxystrobin, oxathiapiprolin		

Fungicide resistance in Colletotrichum fructicola and Colletotrichum siamense causing peach anthracnose in China	Pesticide Biochemistry and Physiology	203		106006		2024	Mohammad Mazharul Karim et al.	peach	anthracnose	*Colletotrichum fructicola*	*Colletotrichum siamense*	fluopyram	iprodione	carbendazim	benomyl	China		
Amino acid mutation of succinate dehydrogenase complex induced resistance to benzovindiflupyr in Magnaporthe oryzae	Pesticide Biochemistry and Physiology	203		106027		2024	Liyuan Deng et al.	rice	blast	*Magnaporthe oryzae*	benzovindiflupyr	SDHI	cross-resistance	H245D	China	fluxapyroxad	bixafen	carboxin
The occurrence and mechanism of field resistance to boscalid and pyraclostrobin in Stemphylium solani, the causal agent of tomato gray leaf spot in China	Pesticide Biochemistry and Physiology	204		106028		2024	Shenyuan Lin et al.	tomato	gray leaf spot	*Stemphylium solani*	boscalid	pyraclostrobin	China					
Resistant risk and resistance mechanism of florylpicoxamid in Colletotrichum gloeosporioides isolated from Chinese walnut	Pesticide Biochemistry and Physiology	204		106093		2024	Jianqiang Miao et al.	walnuts	anthracnose	*Colletotrichum gloeosporioides*	florylpicoxamid	S207L	A37V	China	mefentrifluconazole, carbendazim, bromothalonil	chlorothalonil, pyraclostrobin		
Genetic structure and pyrimethanil resistance of Botrytis spp. causing gray mold on strawberry from greenhouses in Zhejiang, China	Pesticide Biochemistry and Physiology	205		106128		2024	Xuan Zhao et al.	strawberry	gray mold	*Botrytis cinerea*	pyrimethanil	China						
Efficiency and resistance risk of flusilazole against northern corn leaf blight caused by Setosphaeria turcica	Pesticide Biochemistry and Physiology	205		106133		2024	Xu Zhang et al.	corn	leaf blight	*Setosphaeria turcica*	flusilazole	Baseline sensitivity	China	fluazinam, pyraclostrobin, amobam, epoxiconazole, fluxapyroxad				
Resistance risk and resistance-associated point mutations in the target protein PcVHA-a of fluopimomide in Phytophthora capsici	Pesticide Biochemistry and Physiology	205		106150		2024	Jikun Yang et al.	*Phytophthora capsici*	soil-borne phytopathogenic oomycete	fluopimomide	pyridinylmethyl-benzamide fungicide	Baseline sensitivity	China	fluopicolide	metalaxyl, fluazinam, dimethomorph, azoxystrobin			
Baseline sensitivity and resistance risk of Sclerotinia sclerotiorum to glabridin and the possible anti-fungal mechanism	Pesticide Biochemistry and Physiology	205		106162		2024	Shu Xu et al.	oilseed rape	Sclerotinia stem rot	*Sclerotinia sclerotiorum*	glabridin	Baseline sensitivity	China	carbendazim				
Resistance risk and mechanism of Ustilaginoidea virens to pydiflumetofen	Pesticide Biochemistry and Physiology	206		106200		2024	Xiaoru Yin et al.	rice	rice false smut	*Ustilaginoidea virens*	pydiflumetofen	fluxapyroxad	fluopyram	China	boscalid	tebuconazole		
High resistance levels to pyrimethanil and fludioxonil among fourteen Penicillium spp. from pome fruits in the U.S. Pacific Northwest	Pesticide Biochemistry and Physiology	206		106206		2024	Madan Pandey et al.	apple	pear	blue mold	*Penicillium* spp.	pyrimethanil	fludioxonil	United States				
Sensitivity of tomato leaf mould-causing Fulvia fulva to seven succinate dehydrogenase inhibitor (SDHI) fungicides in Nara Prefecture, Japan and high efficacy of isofetamid in controlling SDHI-resistant isolates	Journal of Phytopathology	172	1	e13243		2024	Shunsuke Asano et al.	minimum inhibitory concentration (MIC)	mycelial growth	isofetamid	fluopyram	inpyrfluxam	Sdh B	pyraziflumid	isopyrazam	boscalid	penthiopyrad	
Identification and fungicide sensitivity of Alternaria tenuissima causing leaf spot of Tetrapanax papyrifer newly reported in China	Journal of Phytopathology	172	1	e13244		2024	Xian-Ying Tang et al.	Alternaria tenuissima	leaf spot	rice-paper plant	EC50	difenoconazole	polyoxin, physcion, osthole	TPN, chlorothalonil, mancozeb	fludioxonil, iprodione			
Multiple resistance of Colletotrichum truncatum from soybean to QoI and MBC fungicides in Brazil	Journal of Phytopathology	172	3	e13341		2024	Flávia Rogério et al.	fungicide resistance	DMI	MBC	QoI	β-tub E198A, F200Y	cytb-G143A	CYP51A	CYP51B	EC50	Brazil	fludioxonil, difenoconazole, azoxystrobin, thiophanate-methyl
Molecular Identification and Fungicide Sensitivity of Ceratobasidium sp. (AG-A) Isolates Causing Stem Canker on Potato in Mexico	Journal of Phytopathology	172	5	e13412		2024	Rosalía López-Corrales et al.	thiophanate-methyl	pyraclostrobin	prochloraz	penflufen	EC50	stem canker					
Detection of Botrytis cinerea in strawberry transplants imported into Brazil and fungicide sensitivity characterization of the isolates	European Journal of Plant Pathology	169		669	680	2024	Juliana Nicolau Maia et al.	Botrytis cinerea	strawberry	procymidone	fludioxonil	iprodione	cyprodinil	pyrimethanil	boscalid	fluazinam		
Baseline sensitivity and resistance analysis of Botrytis cinerea to pydiflumetofen in Liaoning Province, China	European Journal of Plant Pathology	170		67	77	2024	Shiqing Chen et al.	Botrytis cinerea	pydiflumetofen	fludioxonil	pyrimethanil	procymidone	iprodione	baseline sensitivity				
Transcriptomic and functional analyses on a Botrytis cinerea multidrug-resistant (MDR) strain provides new insights into the potential molecular mechanisms of MDR and fitness	Molecular Plant Pathology	25	9	e70004		2024	Georgios Sofianos et al.	Botrytis cinerea	fitness	MFS-transporters	multidrug resistance	virulence	fludioxonil	boscalid	fluopyram	pyraclostrobin	fenhexamid, iprodione, cyprodinil	