# Rients E Niks

List of Publications by Year
in descending order



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|---|---|---|---|
| 110 papers | 4,878 citations | 81839 39 h-index | 106281 65 g-index |
| 111 all docs | 111 docs citations | 111 times ranked | 3575 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Linkage Disequilibrium Mapping of Yield and Yield Stability in Modern Spring Barley Cultivars. Genetics, 2004, 168, 435-446. | 1.2 | 375 |
| 2 | A high density barley microsatellite consensus map with 775 SSR loci. Theoretical and Applied Genetics, 2007, 114, 1091-1103. | 1.8 | 308 |
| 3 | Quantitative Resistance to Biotrophic Filamentous Plant Pathogens: Concepts, Misconceptions, and Mechanisms. Annual Review of Phytopathology, 2015, 53, 445-470. | 3.5 | 201 |
| 4 | Identification of QTLs for partial resistance to leaf rust (Puccinia hordei) in barley. Theoretical and Applied Genetics, 1998, 96, 1205-1215. | 1.8 | 162 |
| 5 | Nonhost and basal resistance: how to explain specificity?. New Phytologist, 2009, 182, 817-828. | 3.5 | 152 |
| 6 | Rin4 Causes Hybrid Necrosis and Race-Specific Resistance in an Interspecific Lettuce Hybrid. Plant Cell, 2009, 21, 3368-3378. | 3.1 | 146 |
| 7 | A high-density consensus map of barley to compare the distribution of QTLs for partial resistance to Puccinia hordei and of defence gene homologues. Theoretical and Applied Genetics, 2007, 114, 487-500. | 1.8 | 145 |
| 8 | Linkage Disequilibrium Mapping of Morphological, Resistance, and Other Agronomically Relevant Traits in Modern Spring Barley Cultivars. Molecular Breeding, 2006, 17, 41-58. | 1.0 | 141 |
| 9 | Potentially durable resistance mechanisms in plants to specialised fungal pathogens. Euphytica, 2002, 124, 201-216. | 0.6 | 136 |
| 10 | Potential for re-emergence of wheat stem rust in the United Kingdom. Communications Biology, 2018, 1, 13. | 2.0 | 107 |
| 11 | Basal Host Resistance of Barley to Powdery Mildew: Connecting Quantitative Trait Loci and Candidate Genes. Molecular Plant-Microbe Interactions, 2010, 23, 91-102. | 1.4 | 94 |
| 12 | Isolate-specific QTLs for partial resistance to Puccinia hordei in barley. Theoretical and Applied Genetics, 1999, 99, 877-884. | 1.8 | 92 |
| 13 | Tomato Defense to Oldium neolycopersici: Dominant Ol Genes Confer Isolate-Dependent Resistance Via a Different Mechanism Than Recessive ol-2. Molecular Plant-Microbe Interactions, 2005, 18, 354-362. | 1.4 | 83 |
| 14 | TheR<sub>Pi-mcd1</sub>Locus fromSolanum microdontumInvolved in Resistance toPhytophthora infestans, Causing a Delay in Infection, Maps on Potato Chromosome4in a Cluster of NBS-LRR Genes. Molecular Plant-Microbe Interactions, 2008, 21, 909-918. | 1.4 | 83 |
| 15 | Isolate specificity of quantitative trait loci for partial resistance of barley to Puccinia hordei confirmed in mapping populations and nearâ€isogenic lines. New Phytologist, 2008, 177, 743-755. | 3.5 | 79 |
| 16 | High Diversity of Genes for Nonhost Resistance of Barley to Heterologous Rust Fungi. Genetics, 2008, 178, 2327-2339. | 1.2 | 77 |
| 17 | An eQTL Analysis of Partial Resistance to Puccinia hordei in Barley. PLoS ONE, 2010, 5, e8598. | 1.1 | 77 |
| 18 | European virulence survey for leaf rust in wheat. Agronomy for Sustainable Development, 2000, 20, 793-804. | 0.8 | 77 |

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|---|---|---|---|
| 19 | Innate Nonhost Immunity in Barley to Different Heterologous Rust Fungi Is Controlled by Sets of Resistance Genes with Different and Overlapping Specificities. Molecular Plant-Microbe Interactions, 2006, 19, 1270-1279. | 1.4 | 70 |
| 20 | A novel major gene on chromosome 6H for resistance of barley against the barley yellow dwarf virus. Theoretical and Applied Genetics, 2004, 109, 1536-1543. | 1.8 | 65 |
| 21 | Accumulation of genes for susceptibility to rust fungi for which barley is nearly a nonhost results in two barley lines with extreme multiple susceptibility. Planta, 2004, 220, 71-79. | 1.6 | 57 |
| 22 | Resistance QTL confirmed through development of QTL-NILs for barley leaf rust resistance. Molecular Breeding, 2001, 8, 187-195. | 1.0 | 56 |
| 23 | Characterization of Lr46, a Gene Conferring Partial Resistance to Wheat Leaf Rust. Hereditas, 2004, 135, 111-114. | 0.5 | 56 |
| 24 | Haustorium Formation byPuccinia hordeiin Leaves of Hypersensitive, Partially Resistant, and Nonhost Plant Genotypes. Phytopathology, 1983, 73, 64. | 1.1 | 56 |
| 25 | Early abortion of colonies of leaf rust, Puccinia hordei, in partially resistant barley seedlings. Canadian Journal of Botany, 1982, 60, 714-723. | 1.2 | 55 |
| 26 | Title is missing!. European Journal of Plant Pathology, 1998, 104, 399-407. | 0.8 | 55 |
| 27 | Resistance against barley leaf rust (Puccinia hordei) in West-European spring barley germplasm. Agronomy for Sustainable Development, 2000, 20, 769-782. | 0.8 | 53 |
| 28 | The evidence for abundance of QTLs for partial resistance to Puccinia hordei on the barley genome. Molecular Breeding, 2000, 6, 1-9. | 1.0 | 52 |
| 29 | Mechanistic and genetic overlap of barley host and non-host resistance to Blumeria graminis. Molecular Plant Pathology, 2004, 5, 389-396. | 2.0 | 52 |
| 30 | The barley (Hordeum vulgare) cellulose synthaseâ€like D2 gene (HvCslD2) mediates penetration resistance to hostâ€adapted and nonhost isolates of the powdery mildew fungus. New Phytologist, 2016, 212, 421-433. | 3.5 | 52 |
| 31 | Comparative Histology of Partial Resistance and the Nonhost Reaction to Leaf Rust Pathogens in Barley and Wheat Seedlings. Phytopathology, 1983, 73, 60. | 1.1 | 51 |
| 32 | Infection Structures of Host-Specialized Isolates of Uromyces viciae-fabae and of Other Species of Uromyces Infecting Leguminous Crops. Plant Disease, 2005, 89, 17-22. | 0.7 | 49 |
| 33 | Rph22: mapping of a novel leaf rust resistance gene introgressed from the non-host Hordeum bulbosum L. into cultivated barley (Hordeum vulgare L.). Theoretical and Applied Genetics, 2013, 126, 1613-1625. | 1.8 | 49 |
| 34 | Identification of quantitative trait loci for ion homeostasis and salt tolerance in barley (Hordeum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 | 1.0 | 49 |
| 35 | Prehaustorial and Posthaustorial Resistance to Wheat Leaf Rust in Diploid Wheat Seedlings. Phytopathology, 1991, 81, 847. | 1.1 | 48 |
| 36 | Three Combined Quantitative Trait Loci from Nonhost Lactuca saligna Are Sufficient to Provide Complete Resistance of Lettuce Against Bremia lactucae. Molecular Plant-Microbe Interactions, 2009, 22, 1160-1168. | 1.4 | 47 |

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|---|---|---|---|
| 37 | Pyramiding of Ryd2 and Ryd3 conferring tolerance to a German isolate of Barley yellow dwarf virus-PAV (BYDV-PAV-ASL-1) leads to quantitative resistance against this isolate. Theoretical and Applied Genetics, 2011, 123, 69-76. | 1.8 | 46 |
| 38 | Nonhost plant species as donors for resistance to pathogens with narrow host range I. Determination of nonhost status. Euphytica, 1987, 36, 841-852. | 0.6 | 45 |
| 39 | Dissection of the Barley 2L1.0 Region Carrying the â€˜Laevigatumâ€™ Quantitative Resistance Gene to Leaf Rust Using Near-Isogenic Lines (NIL) and subNIL. Molecular Plant-Microbe Interactions, 2007, 20, 1604-1615. | 1.4 | 43 |
| 40 | Identification of QTLs for powdery mildew and scald resistance in barley. Euphytica, 2006, 151, 421-429. | 0.6 | 37 |
| 41 | Orthologous receptor kinases quantitatively affect the host status of barley to leaf rust fungi. Nature Plants, 2019, 5, 1129-1135. | 4.7 | 37 |
| 42 | Genetic dissection of Lactuca saligna nonhost resistance to downy mildew at various lettuce developmental stages. Plant Pathology, 2009, 58, 923-932. | 1.2 | 36 |
| 43 | Peroxidase Profiling Reveals Genetic Linkage between Peroxidase Gene Clusters and Basal Host and Non-Host Resistance to Rusts and Mildew in Barley. PLoS ONE, 2010, 5, e10495. | 1.1 | 35 |
| 44 | Title is missing!. Euphytica, 2001, 117, 209-215. | 0.6 | 34 |
| 45 | Assessment of epidemiological parameters and their use in epidemiological and forecasting models of cereal airborne diseases. Agronomy for Sustainable Development, 2000, 20, 715-727. | 0.8 | 34 |
| 46 | Oidium neolycopersici: Intraspecific Variability Inferred from Amplified Fragment Length Polymorphism Analysis and Relationship with Closely Related Powdery Mildew Fungi Infecting Various Plant Species. Phytopathology, 2008, 98, 529-540. | 1.1 | 33 |
| 47 | Nonhost plant species as donors for resistance to pathogens with narrow host range. II. Concepts and evidence on the genetic basis of nonhost resistance. Euphytica, 1988, 37, 89-99. | 0.6 | 32 |
| 48 | Morphology and AFLP markers suggest three Hordeum chilense ecotypes that differ in avoidance to rust fungi. Canadian Journal of Botany, 2001, 79, 204-213. | 1.2 | 32 |
| 49 | Morphology and AFLP markers suggest three Hordeum chilense ecotypes that differ in avoidance to rust fungi. Canadian Journal of Botany, 2001, 79, 204-213. | 1.2 | 32 |
| 50 | Specificity of Prehaustorial Resistance to Puccinia hordei and to Two Inappropriate Rust Fungi in Barley. Phytopathology, 1998, 88, 856-861. | 1.1 | 30 |
| 51 | Histology of the Relation Between Minor and Major Genes for Resistance of Barley to Leaf Rust. Phytopathology, 1983, 73, 55. | 1.1 | 29 |
| 52 | QTLs for resistance to the false brome rust Puccinia brachypodii in the model grass Brachypodium distachyon L.. Genome, 2012, 55, 152-163. | 0.9 | 28 |
| 53 | Effectorâ€mediated discovery of a novel resistance gene against Bremia lactucae in a nonhost lettuce species. New Phytologist, 2017, 216, 915-926. | 3.5 | 28 |
| 54 | Evidence for a Minor Geneâ€“forâ€“Minor Gene Interaction Explaining Nonhypersensitive Polygenic Partial Disease Resistance. Phytopathology, 2012, 102, 1086-1093. | 1.1 | 27 |

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|---|---|---|---|
| 55 | High Resolution Genetic and Physical Mapping of a Major Powdery Mildew Resistance Locus in Barley. Frontiers in Plant Science, 2019, 10, 146. | 1.7 | 27 |
| 56 | Host Status of False Brome Grass to the Leaf Rust Fungus Puccinia brachypodii and the Stripe Rust Fungus P. striiformis. Plant Disease, 2011, 95, 1339-1345. | 0.7 | 26 |
| 57 | Golden SusPtrit: a genetically well transformable barley line for studies on the resistance to rust fungi. Theoretical and Applied Genetics, 2014, 127, 325-337. | 1.8 | 25 |
| 58 | Genomic regions determining resistance to leaf stripe (Pyrenophora graminea) in barley. Genome, 2002, 45, 460-466. | 0.9 | 24 |
| 59 | Specificity and levels of nonhost resistance to nonadapted Blumeria graminis forms in barley. New Phytologist, 2010, 185, 275-284. | 3.5 | 24 |
| 60 | Mapping resistance to powdery mildew in barley reveals a large-effect nonhost resistance QTL. Theoretical and Applied Genetics, 2018, 131, 1031-1045. | 1.8 | 22 |
| 61 | A comparative analysis of nonhost resistance across the two Triticeae crop species wheat and barley. BMC Plant Biology, 2017, 17, 232. | 1.6 | 21 |
| 62 | The phenotypic expression of QTLs for partial resistance to barley leaf rust during plant development. Theoretical and Applied Genetics, 2010, 121, 857-864. | 1.8 | 20 |
| 63 | Combining genetical genomics and bulked segregant analysis-based differential expression: an approach to gene localization. Theoretical and Applied Genetics, 2011, 122, 1375-1383. | 1.8 | 20 |
| 64 | Appresoorium formation of Puccinia hordei on partially resistant barley and two non-host species. European Journal of Plant Pathology, 1981, 87, 201-207. | 0.5 | 19 |
| 65 | Histological studies on the infection of triticale, wheat and rye byPuccinia recondita f.sp.tritici andP. recondita f.sp.recondita. Euphytica, 1987, 36, 275-285. | 0.6 | 19 |
| 66 | Host Range of Oidium lycopersici Occurring in the Netherlands. European Journal of Plant Pathology, 2000, 106, 465-473. | 0.8 | 17 |
| 67 | QTL mapping provides evidence for lack of association of the avoidance of leaf rust in Hordeum chilense with stomata density. Theoretical and Applied Genetics, 2003, 106, 1283-1292. | 1.8 | 17 |
| 68 | Resistance to cereal rusts at the plant cell wallâ€"what can we learn from other host-pathogen systems?. Australian Journal of Agricultural Research, 2007, 58, 476. | 1.5 | 17 |
| 69 | Differential gene expression in nearly isogenic lines with QTL for partial resistance to Puccinia hordei in barley. BMC Genomics, 2010, 11, 629. | 1.2 | 17 |
| 70 | Effects of stacked quantitative resistances to downy mildew in lettuce do not simply add up. Theoretical and Applied Genetics, 2014, 127, 1805-1816. | 1.8 | 17 |
| 71 | Patterns of Transmission Ratio Distortion in Interspecific Lettuce Hybrids Reveal a Sex-Independent Gametophytic Barrier. Genetics, 2019, 211, 263-276. | 1.2 | 17 |
| 72 | Effect of Germ Tube Length on the Fate of Sporelings ofPuccinia hordeiin Susceptible and Resistant Barley. Phytopathology, 1990, 80, 57. | 1.1 | 17 |

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|---|---|---|---|
| 73 | Abnormal germling development by brown rust and powdery mildew on cer barley mutants. Hereditas, 2004, 135, 271-276. | 0.5 | 16 |
| 74 | Histological responses in Hordeum chilense to brown and yellow rust fungi. Plant Pathology, 1992, 41, 611-617. | 1.2 | 15 |
| 75 | Convergent evidence for a role of WIR1 proteins during the interaction of barley with the powdery mildew fungus Blumeria graminis. Journal of Plant Physiology, 2011, 168, 20-29. | 1.6 | 15 |
| 76 | Transgressive segregation for very low and high levels of basal resistance to powdery mildew in barley. Journal of Plant Physiology, 2011, 168, 45-50. | 1.6 | 15 |
| 77 | Resistance to parasites. , 1993, , 422-447. | | 15 |
| 78 | The importance of abortive stoma penetration in the partial resistance and nonhost reaction of adult barley and wheat plants to leaf rust fungi. Euphytica, 1987, 36, 725-731. | 0.6 | 14 |
| 79 | Avoidance of leaf rust fungi in wild relatives of cultivated cereals. Euphytica, 1996, 87, 1-6. | 0.6 | 14 |
| 80 | High-Density Mapping of Triple Rust Resistance in Barley Using DArT-Seq Markers. Frontiers in Plant Science, 2019, 10, 467. | 1.7 | 14 |
| 81 | High Resolution Mapping of a Novel Late Blight Resistance Gene Rpi-avl1, from the Wild Bolivian Species Solanum avilesii. American Journal of Potato Research, 2011, 88, 511-519. | 0.5 | 13 |
| 82 | High-resolution mapping of the barley Ryd3 locus controlling tolerance to BYDV. Molecular Breeding, 2014, 33, 477-488. | 1.0 | 13 |
| 83 | Performance of spring barley (Hordeum vulgare) varieties under organic and conventional conditions. Euphytica, 2014, 197, 279-293. | 0.6 | 13 |
| 84 | Mapping genes in barley for resistance to Puccinia coronata from couch grass and to P. striiformis from brome, wheat and barley. Euphytica, 2015, 206, 487-499. | 0.6 | 13 |
| 85 | Morphological and molecular characterisation confirm that Triticum monococcum s.s. is resistant to wheat leaf rust. Theoretical and Applied Genetics, 2001, 103, 1093-1098. | 1.8 | 12 |
| 86 | Prospects for Exploitation of Disease Resistance from Hordeum Chilense in Cultivated Cereals. Hereditas, 2004, 135, 161-169. | 0.5 | 12 |
| 87 | Fine mapping quantitative resistances to downy mildew in lettuce revealed multiple sub-QTLs with plant stage dependent effects reducing or even promoting the infection. Theoretical and Applied Genetics, 2013, 126, 2995-3007. | 1.8 | 12 |
| 88 | Induced Accessibility and Inaccessibility of Barley Cells in Seedling Leaves Inoculated with Two Leaf Rust Species. Journal of Phytopathology, 1989, 124, 296-308. | 0.5 | 10 |
| 89 | Histology of the infection of tritordeum and its parents by cereal brown rusts. Plant Pathology, 1993, 42, 93-99. | 1.2 | 10 |
| 90 | Search for Partial Resistance to Leaf Rust in a Collection of Ancient Spanish Wheats. Hereditas, 2004, 135, 193-197. | 0.5 | 10 |

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| 91 | High-Resolution Mapping of Two Broad-Spectrum Late Blight Resistance Genes from Two Wild Species of the Solanum circaeifolium Group. Potato Research, 2012, 55, 109-123. | 1.2 | 10 |
| 92 | Host status of barley to Puccinia coronata from couch grass and P. striiformis from wheat and brome. European Journal of Plant Pathology, 2013, 136, 393-405. | 0.8 | 9 |
| 93 | Bidirectional backcrosses between wild and cultivated lettuce identify loci involved in nonhost resistance to downy mildew. Theoretical and Applied Genetics, 2018, 131, 1761-1776. | 1.8 | 9 |
| 94 | Host/nonhost status and genetics of resistance in barley against three pathotypes of Magnaporthe blast fungi. Euphytica, 2019, 215, 1. | 0.6 | 9 |
| 95 | Partial Resistance to Leaf Rust in a Collection of Ancient Spanish Barleys. Hereditas, 2004, 135, 199-203. | 0.5 | 8 |
| 96 | Genome-wide analysis of the barley MAPK gene family and its expression patterns in relation to Puccinia hordei infection. Acta Physiologiae Plantarum, 2015, 37, 1. | 1.0 | 8 |
| 97 | Isolate Specificity and Polygenic Inheritance of Resistance in Barley to the Heterologous Rust Pathogen Puccinia graminis f. sp. avenae. Phytopathology, 2016, 106, 1029-1037. | 1.1 | 8 |
| 98 | Evaluation of morphology of infection structures in distinguishing between different Allium rust fungi. European Journal of Plant Pathology, 1993, 99, 139-149. | 0.5 | 7 |
| 99 | Compatible Puccinia hordei infection in barley induces basal defense to subsequent infection by Blumeria graminis. Physiological and Molecular Plant Pathology, 2012, 77, 17-22. | 1.3 | 6 |
| 100 | Haplotype divergence and multiple candidate genes at Rphq2, a partial resistance QTL of barley to Puccinia hordei. Theoretical and Applied Genetics, 2016, 129, 289-304. | 1.8 | 6 |
| 101 | Identification of a large-effect QTL associated with kernel discoloration in barley. Journal of Cereal Science, 2018, 84, 62-70. | 1.8 | 6 |
| 102 | The Abnormal Morphology of a Very Virulent Moroccan Isolate Belonging or Related to Puccinia hordei. Plant Disease, 1989, 73, 28. | 0.7 | 6 |
| 103 | Morphology of infection structures of puccinia striiformis var. dactylidis. European Journal of Plant Pathology, 1989, 95, 171-175. | 0.5 | 5 |
| 104 | The contribution of Hordeum chilense to partial resistance of tritordeum to wheat brown rust. Euphytica, 1992, 59, 129-133. | 0.6 | 5 |
| 105 | High-resolution mapping of genes involved in plant stage-specific partial resistance of barley to leaf rust. Molecular Breeding, 2017, 37, 45. | 1.0 | 5 |
| 106 | Application of a set of 14 c-DNA probes from wheat to detect restriction fragment length polymorphism (RFLP) in barley. Euphytica, 1991, 53, 115-119. | 0.6 | 4 |
| 107 | Comparison of Selection Efficiency for Spring Barley (Hordeum vulgare L.) under Organic and Conventional Farming Conditions. Crop Science, 2017, 57, 626-636. | 0.8 | 3 |
| 108 | Relative Ratio of Mature Pustules: A Simple Method to Assess Partial Resistance of Barley to Puccinia hordei. Plant Disease, 2007, 91, 301-307. | 0.7 | 2 |

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|---|---|---|---|
| 109 | First Report of Powdery Mildew (Oidium sp.) on Pincushion Flower (Scabiosa columbaria) in New York. Plant Disease, 2009, 93, 316-316. | 0.7 | 1 |
| 110 | Unraveling possible association between quantitative trait loci (QTL) for partial resistance and nonhost resistance in food barley (Hordeum vulgaris L.). African Journal of Biotechnology, 2016, 15, 2202-2208. | 0.3 | 0 |