

# Nicola Pecchioni

## List of Publications by Year in descending order

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94  
papers

5,145  
citations

109137

35  
h-index

91712

69  
g-index

98  
all docs

98  
docs citations

98  
times ranked

5126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Durum wheat genome highlights past domestication signatures and future improvement targets. <i>Nature Genetics</i> , 2019, 51, 885-895.	9.4	576
2	Natural variation in a homolog of <i>Antirrhinum CENTRORADIALIS</i> contributed to spring growth habit and environmental adaptation in cultivated barley. <i>Nature Genetics</i> , 2012, 44, 1388-1392.	9.4	477
3	Molecular and Structural Characterization of Barley Vernalization Genes. <i>Plant Molecular Biology</i> , 2005, 59, 449-467.	2.0	258
4	Uptake and agronomic efficiency of nitrogen in winter barley and winter wheat. <i>European Journal of Agronomy</i> , 1998, 9, 11-20.	1.9	245
5	Two loci on chromosome 5H determine low-temperature tolerance in a "Nure"™ (winter) × "Tremois"™ (spring) barley map. <i>Theoretical and Applied Genetics</i> , 2004, 108, 670-680.	1.8	199
6	Chromosome regions and stress-related sequences involved in resistance to abiotic stress in Triticeae. <i>Plant Molecular Biology</i> , 2002, 48, 649-665.	2.0	190
7	CBF gene copy number variation at Frost Resistance-2 is associated with levels of freezing tolerance in temperate-climate cereals. <i>Theoretical and Applied Genetics</i> , 2010, 121, 21-35.	1.8	151
8	Fine mapping of a HvCBF gene cluster at the frost resistance locus Fr-H2 in barley. <i>Theoretical and Applied Genetics</i> , 2007, 115, 1083-1091.	1.8	145
9	Mapping regulatory genes as candidates for cold and drought stress tolerance in barley. <i>Theoretical and Applied Genetics</i> , 2006, 112, 445-454.	1.8	128
10	Expression levels of barley <i>Cbf</i> genes at the Frost resistance <i>H2</i> locus are dependent upon alleles at <i>Fr-H1</i> and <i>Fr-H2</i> . <i>Plant Journal</i> , 2007, 51, 308-321.	2.8	121
11	Genome-wide association mapping of frost tolerance in barley ( <i>Hordeum vulgare</i> L.). <i>BMC Genomics</i> , 2013, 14, 424.	1.2	101
12	Patterns of genetic diversity and linkage disequilibrium in a highly structured <i>Hordeum vulgare</i> association-mapping population for the Mediterranean basin. <i>Theoretical and Applied Genetics</i> , 2009, 119, 175-187.	1.8	99
13	Gene expression in grapevine cultivars in response to Bois Noir phytoplasma infection. <i>Plant Science</i> , 2009, 176, 792-804.	1.7	94
14	Basal Host Resistance of Barley to Powdery Mildew: Connecting Quantitative Trait Loci and Candidate Genes. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 91-102.	1.4	94
15	The impact of climate change on barley yield in the Mediterranean basin. <i>European Journal of Agronomy</i> , 2019, 106, 1-11.	1.9	93
16	Genetic dissection of the relationships between grain yield components by genome-wide association mapping in a collection of tetraploid wheats. <i>PLoS ONE</i> , 2018, 13, e0190162.	1.1	85
17	Mixed model association scans of multi-environmental trial data reveal major loci controlling yield and yield related traits in <i>Hordeum vulgare</i> in Mediterranean environments. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1363-1373.	1.8	75
18	QTLs for barley yield adaptation to Mediterranean environments in the "Nure" × "Tremois" biparental population. <i>Euphytica</i> , 2014, 197, 73-86.	0.6	74

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19	Determinants of barley grain yield in a wide range of Mediterranean environments. <i>Field Crops Research</i> , 2011, 120, 169-178.	2.3	73
20	Use of Spent Coffee Ground Compost in Peat-Based Growing Media for the Production of Basil and Tomato Potting Plants. <i>Communications in Soil Science and Plant Analysis</i> , 2016, 47, 356-368.	0.6	72
21	The carotenoid biosynthetic and catabolic genes in wheat and their association with yellow pigments. <i>BMC Genomics</i> , 2017, 18, 122.	1.2	72
22	Isolate-specific QTLs of resistance to leaf stripe ( <i>Pyrenophora graminea</i> ) in the 'Steptoe' × 'Morex' spring barley cross. <i>Theoretical and Applied Genetics</i> , 2003, 106, 668-675.	1.8	68
23	Effects of solid and liquid digestate for hydroponic baby leaf lettuce ( <i>Lactuca sativa</i> L.) cultivation. <i>Scientia Horticulturae</i> , 2019, 244, 172-181.	1.7	66
24	Inside the CBF locus in Poaceae. <i>Plant Science</i> , 2011, 180, 39-45.	1.7	60
25	Update on the genomics and basic biology of <i>Brachypodium</i> . <i>Trends in Plant Science</i> , 2014, 19, 414-418.	4.3	60
26	Iodine Fortification Plant Screening Process and Accumulation in Tomato Fruits and Potato Tubers. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 706-718.	0.6	59
27	Biomass production and dry matter partitioning of processing tomato under organic vs conventional cropping systems in a Mediterranean environment. <i>Scientia Horticulturae</i> , 2017, 224, 163-170.	1.7	52
28	Quantitative resistance to barley leaf stripe ( <i>Pyrenophora graminea</i> ) is dominated by one major locus. <i>Theoretical and Applied Genetics</i> , 1996, 93-93, 97-101.	1.8	50
29	Phenolic acids profile, nutritional and phytochemical compounds, antioxidant properties in colored barley grown in southern Italy. <i>Food Research International</i> , 2018, 113, 221-233.	2.9	50
30	Carbon footprint and energetic analysis of tomato production in the organic vs the conventional cropping systems in Southern Italy. <i>Journal of Cleaner Production</i> , 2019, 220, 836-845.	4.6	49
31	Dual-purpose barley and oat in a Mediterranean environment. <i>Field Crops Research</i> , 2006, 99, 158-166.	2.3	48
32	High expression level of a gene coding for a chloroplastic amino acid selective channel protein is correlated to cold acclimation in cereals. <i>Plant Molecular Biology</i> , 1999, 41, 233-243.	2.0	47
33	Copy number variation at the HvCBF4-HvCBF2 genomic segment is a major component of frost resistance in barley. <i>Plant Molecular Biology</i> , 2016, 92, 161-175.	2.0	45
34	Mapping adaptation of barley to droughted environments. <i>Euphytica</i> , 2008, 161, 35-45.	0.6	44
35	Barley adaptation and improvement in the Mediterranean basin. <i>Plant Breeding</i> , 2008, 127, 554-560.	1.0	40
36	Physiological responses of processing tomato in organic and conventional Mediterranean cropping systems. <i>Scientia Horticulturae</i> , 2015, 190, 161-172.	1.7	39

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37	Identification and mapping of a new leaf stripe resistance gene in barley ( <i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2001, 102, 1286-1291.	1.8	34
38	Transcriptome profiling of short-term response to chilling stress in tolerant and sensitive <i>Oryza sativa</i> ssp. <i>Japonica</i> seedlings. <i>Functional and Integrative Genomics</i> , 2018, 18, 627-644.	1.4	34
39	Pyramiding <i>Ty-1</i> and <i>Ty-3</i> and <i>Ty-2</i> in tomato hybrids dramatically inhibits symptom expression and accumulation of tomato yellow leaf curl disease inducing viruses. <i>Archives of Phytopathology and Plant Protection</i> , 2017, 50, 213-227.	0.6	33
40	Changes in allele frequencies in landraces, old and modern barley cultivars of marker loci close to QTL for grain yield under high and low input conditions. <i>Euphytica</i> , 2008, 163, 435-447.	0.6	32
41	Iodine uptake and distribution in horticultural and fruit tree species. <i>Italian Journal of Agronomy</i> , 2012, 7, 32.	0.4	32
42	Changes in yield components, morphological, physiological and fruit quality traits in processing tomato cultivated in Italy since the 1930s. <i>Scientia Horticulturae</i> , 2019, 257, 108726.	1.7	32
43	Characterization of ornamental <i>Datura</i> plants transformed by <i>Agrobacterium rhizogenes</i> . <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1997, 33, 101-106.	0.9	30
44	Marker-assisted characterization of frost tolerance in barley ( <i>Hordeum vulgare</i> L.). <i>Plant Breeding</i> , 2009, 128, 381-386.	1.0	29
45	Mineral composition of durum wheat grain and pasta under increasing atmospheric CO <sub>2</sub> concentrations. <i>Food Chemistry</i> , 2018, 242, 53-61.	4.2	29
46	Technological Quality and Nutritional Value of Two Durum Wheat Varieties Depend on Both Genetic and Environmental Factors. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2384-2395.	2.4	29
47	Barley-Pyrenophora graminea interaction: QTL analysis and gene mapping. <i>Plant Breeding</i> , 1999, 118, 29-35.	1.0	28
48	QTLs for resistance to the false brome rust <i>Puccinia brachypodii</i> in the model grass <i>Brachypodium distachyon</i> L.. <i>Genome</i> , 2012, 55, 152-163.	0.9	28
49	Pelleting is a successful method to eliminate the presence of <i>Clostridium</i> spp. from the digestate of biogas plants. <i>Biomass and Bioenergy</i> , 2015, 81, 479-482.	2.9	28
50	Candidate gene expression profiling in two contrasting tomato cultivars under chilling stress. <i>Biologia Plantarum</i> , 2014, 58, 283-295.	1.9	26
51	Physiological responses to chilling in cultivars of processing tomato released and cultivated over the past decades in Southern Europe. <i>Scientia Horticulturae</i> , 2018, 231, 118-125.	1.7	26
52	Genomic regions determining resistance to leaf stripe ( <i>Pyrenophora graminea</i> ) in barley. <i>Genome</i> , 2002, 45, 460-466.	0.9	24
53	Evaluation of two groups of quinoa ( <i>Chenopodium quinoa</i> Willd.) accessions with different seed colours for adaptation to the Mediterranean environment. <i>Crop and Pasture Science</i> , 2018, 69, 1264.	0.7	23
54	Development of PCR-based markers on chromosome 5H for assisted selection of frost-tolerant genotypes in barley. <i>Molecular Breeding</i> , 2004, 14, 265-273.	1.0	21

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55	The nuclear-cytoplasmic interaction controls carotenoid content in wheat. <i>Euphytica</i> , 2008, 159, 325-331.	0.6	21
56	Comparison of gluten peptides and potential prebiotic carbohydrates in old and modern <i>Triticum turgidum</i> ssp. genotypes. <i>Food Research International</i> , 2019, 120, 568-576.	2.9	21
57	Effect of the nud gene on grain yield in barley. <i>Czech Journal of Genetics and Plant Breeding</i> , 2012, 48, 10-22.	0.4	20
58	Testing the influence of digestate from biogas on growth and volatile compounds of basil ( <i>Ocimum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Medicinal and Aromatic Plants, 2018, 11, 18-26.	0.9	20
59	QTL alleles from a winter feed type can improve malting quality in barley. <i>Plant Breeding</i> , 2009, 128, 598-605.	1.0	19
60	The barley Frost resistance-H2 locus. <i>Functional and Integrative Genomics</i> , 2014, 14, 85-100.	1.4	19
61	Quantitative trait loci for agronomic traits in tetraploid wheat for enhancing grain yield in Kazakhstan environments. <i>PLoS ONE</i> , 2020, 15, e0234863.	1.1	19
62	Anthocyanin profile and antioxidant capacity in coloured barley. <i>International Journal of Food Science and Technology</i> , 2019, 54, 2478-2486.	1.3	18
63	Determinants of barley grain yield in drought-prone Mediterranean environments. <i>Italian Journal of Agronomy</i> , 2013, 8, 1.	0.4	17
64	Genome-Wide Association Mapping of Prostrate/Erect Growth Habit in Winter Durum Wheat. <i>International Journal of Molecular Sciences</i> , 2020, 21, 394.	1.8	17
65	Amplified Fragment Length Polymorphism (AFLP) Markers for Barley Malt Fingerprinting. <i>Journal of Cereal Science</i> , 1999, 29, 257-260.	1.8	14
66	A genotypic and phenotypic information source for marker-assisted selection of cereals: the CEREALAB database. <i>Database: the Journal of Biological Databases and Curation</i> , 2011, 2011, baq038-baq038.	1.4	14
67	A major QTL for resistance to soil-borne cereal mosaic virus derived from an old Italian durum wheat cultivar. <i>Journal of Plant Interactions</i> , 2012, 7, 290-300.	1.0	14
68	Characterization of an Italian rice germplasm collection with genetic markers useful for breeding to improve eating and cooking quality. <i>Euphytica</i> , 2013, 194, 383-399.	0.6	14
69	Amplified fragment length polymorphism markers for DNA fingerprinting in the genus <i>Salvia</i> . <i>Plant Biosystems</i> , 2011, 145, 274-277.	0.8	13
70	Genetic and Management Effects on Barley Yield and Phenology in the Mediterranean Basin. <i>Frontiers in Plant Science</i> , 2021, 12, 655406.	1.7	12
71	Phyletic relationships within the genus <i>Hordeum</i> using PCR-based markers. <i>Genetic Resources and Crop Evolution</i> , 2001, 48, 447-458.	0.8	11
72	Genetic aspects of floral fragrance in plants. <i>Biochemistry (Moscow)</i> , 2007, 72, 351-358.	0.7	11

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73	Genomic Approaches to Identify Molecular Bases of Crop Resistance to Diseases and to Develop Future Breeding Strategies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5423.	1.8	11
74	Cucurbita pepo L. can be transformed by Agrobacterium rhizogenes. <i>Plant Cell, Tissue and Organ Culture</i> , 1997, 51, 89-93.	1.2	10
75	The PCR-Based Marker MWG2018 Linked to the RDG2A Leaf Stripe Resistance Gene Is a Useful Tool for Assessing Barley Resistance in Breeding Programs. <i>Crop Science</i> , 2003, 43, 1036-1042.	0.8	10
76	Influence of environmental and genetic factors on content of toxic and immunogenic wheat gluten peptides. <i>European Journal of Agronomy</i> , 2020, 118, 126091.	1.9	10
77	RFLP analysis of highly polymorphic loci in barley. <i>Theoretical and Applied Genetics</i> , 1993, 85, 926-930.	1.8	9
78	Expressed sequence tags from cold-acclimatized barley can identify novel plant genes. <i>Plant Breeding</i> , 2001, 120, 497-502.	1.0	9
79	CNV and Structural Variation in Plants: Prospects of NGS Approaches. , 2015, , 211-232.		8
80	Agronomic and molecular evaluation of cocksfoot and tall fescue cultivars for adaptation to an Algerian drought-prone environment. <i>Euphytica</i> , 2016, 212, 371-386.	0.6	8
81	Genetic diversity in cultivated <i>Osteospermum</i> as revealed by random amplified polymorphic DNA analysis. <i>Plant Breeding</i> , 2000, 119, 351-355.	1.0	7
82	Random amplified polymorphic DNA (RAPD) analysis for the verification of hybridity in interspecific crosses of <i>Alstroemeria</i> . <i>Plant Breeding</i> , 2000, 119, 443-445.	1.0	7
83	QTL Analysis of Five Morpho-Physiological Traits in Bread Wheat Using Two Mapping Populations Derived from Common Parents. <i>Genes</i> , 2021, 12, 604.	1.0	7
84	The novel heptyl phorolic acid cannabinoids content in different <i>Cannabis sativa</i> L. accessions. <i>Talanta</i> , 2021, 235, 122704.	2.9	7
85	Characterization of Celiac Disease-Related Epitopes and Gluten Fractions, and Identification of Associated Loci in Durum Wheat. <i>Agronomy</i> , 2020, 10, 1231.	1.3	6
86	Influence of CNV on transcript levels of HvCBF genes at Fr-H2 locus revealed by resequencing in resistant barley cv. "Nure" and expression analysis. <i>Plant Science</i> , 2020, 290, 110305.	1.7	5
87	Beneficial Effects of <i>Eruca sativa</i> Defatted Seed Meal on Visceral Pain and Intestinal Damage Resulting from Colitis in Rats. <i>Foods</i> , 2022, 11, 580.	1.9	4
88	Evaluation of <i>Cucurbita pepo</i> germplasm for staminate flower production and adaptation to the frozen food industry. <i>Scientia Horticulturae</i> , 2016, 213, 321-330.	1.7	3
89	Genetic variability among different Italian populations of the aphid <i>Myzus persicae</i> . <i>Caryologia</i> , 2006, 59, 326-333.	0.2	2
90	Haplotype structure around the nud locus in barley and its association with resistance to leaf stripe ( <i>Pyrenophora graminea</i> ). <i>Plant Breeding</i> , 2007, 126, 24-29.	1.0	2

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91	Genetic structure and proposed conservation strategy for natural populations of <i>Calycanthus chinensis</i> Cheng et S.Y. Chang (Calycanthaceae). <i>Canadian Journal of Plant Science</i> , 2008, 88, 179-186.	0.3	2
92	Nitrogen Use Efficiency in Durum Wheat ( <i>Triticum durum</i> Desf.) Grown under Semiarid Conditions in Algeria. <i>Agronomy</i> , 2022, 12, 1284.	1.3	2
93	Detection of Single-Feature Polymorphisms (SFPs) between two tomato varieties and their application in defining the introgressions of resistance loci. <i>Plant Breeding</i> , 2015, 134, 226-232.	1.0	1
94	Brachypodium as a Model for Grass and Cereal Diseases. <i>Plant Genetics and Genomics: Crops and Models</i> , 2015, , 275-290.	0.3	0