

# Michael Baum

## List of Publications by Year in descending order

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89  
papers

3,921  
citations

117625

34  
h-index

133252

59  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4063  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic Dissection of Heat Stress Tolerance in Faba Bean ( <i>Vicia faba</i> L.) Using GWAS. <i>Plants</i> , 2022, 11, 1108.	3.5	7
2	Crop wild relatives in durum wheat breeding: Drift or thrift?. <i>Crop Science</i> , 2021, 61, 37-54.	1.8	26
3	Wild Lathyrus species as a great source of resistance for introgression into cultivated grass pea ( <i>Vicia sativa</i> L.). <i>Frontiers in Plant Science</i> , 2021, 12, 628314.	1.8	14
4	Genomics-assisted lentil breeding: Current status and future strategies. <i>Frontiers in Plant Science</i> , 2021, 12, 628314.		22
5	Assessment and modeling using machine learning of resistance to scald ( <i>Rhynchosporium commune</i> ) in two specific barley genetic resources subsets. <i>Scientific Reports</i> , 2021, 11, 15967.	3.3	6
6	The Global Durum Wheat Panel (GDP): An International Platform to Identify and Exchange Beneficial Alleles. <i>Frontiers in Plant Science</i> , 2020, 11, 569905.	3.6	44
7	Intra-cultivar variability at microsatellite loci in date palm cultivars across the GCC countries. <i>QScience Connect</i> , 2020, 2020, .	0.3	2
8	Genomics and Molecular Breeding for Improving Tolerance to Abiotic Stress in Barley ( <i>Hordeum vulgare</i> L.). <i>Frontiers in Plant Science</i> , 2020, 11, 569905.	1.7	8
9	Multi-dimensional evaluation of response to salt stress in wheat. <i>PLoS ONE</i> , 2019, 14, e0222659.	2.5	51
10	Barley yield formation under abiotic stress depends on the interplay between flowering time genes and environmental cues. <i>Scientific Reports</i> , 2019, 9, 6397.	3.3	71
11	Genetic and transcriptional variations in NRAMP-2 and OPAQUE1 genes are associated with salt stress response in wheat. <i>Theoretical and Applied Genetics</i> , 2019, 132, 323-346.	3.6	20
12	Breeding and genomics status in faba bean ( <i>Vicia faba</i> L.). <i>Plant Breeding</i> , 2019, 138, 465-473.	1.9	61
13	Allelic variations and differential expressions detected at quantitative trait loci for salt stress tolerance in wheat. <i>Plant, Cell and Environment</i> , 2018, 41, 919-935.	5.7	100
14	Slow rusting of bread wheat landraces to <i>Puccinia striiformis</i> sp. <i>tritici</i> under artificial field inoculation. <i>Arab Journal of Plant Protection</i> , 2018, 36, 164-175.	0.2	0
15	Construction of new EST-SSRs for Fusarium resistant wheat breeding. <i>Computational Biology and Chemistry</i> , 2017, 68, 22-28.	2.3	6
16	Genetic variations of HvP5CS1 and their association with drought tolerance related traits in barley ( <i>Hordeum vulgare</i> L.). <i>Scientific Reports</i> , 2017, 7, 7870.	3.3	39
17	Date Palm Genetic Diversity Analysis Using Microsatellite Polymorphism. <i>Methods in Molecular Biology</i> , 2017, 1638, 113-124.	0.9	6
18	Assessment of genetic diversity and yield performance in Jordanian barley ( <i>Hordeum vulgare</i> L.) landraces grown under Rainfed conditions. <i>BMC Plant Biology</i> , 2017, 17, 191.	3.6	45

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19	Molecular and functional assessment of a Chitinase gene in chickpea. Arab Journal of Plant Protection, 2017, 35, 145-154.	0.2	0
20	Development of a panel of unigene-derived polymorphic ESTâ€“SSR markers in lentil using public database information. Crop Journal, 2016, 4, 425-433.	5.2	10
21	Assessment of genetic diversity among Jordanian wild barley ( <i>Hordeum spontaneum</i> ) genotypes revealed by SSR markers. Genetic Resources and Crop Evolution, 2016, 63, 813-822.	1.6	11
22	Assessment the Response of Chickpea Genotypes to Agrobacterium -Mediated Transformation System. Science Journal of University of Zakho, 2016, 4, 73-80.	0.1	0
23	Current knowledge in lentil genomics and its application for crop improvement. Frontiers in Plant Science, 2015, 6, 78.	3.6	93
24	New resistance sources to Russian wheat aphid ( <i>Diuraphis noxia</i> ) in Swedish wheat substitution and translocation lines with rye ( <i>Secale cereale</i> ) and <i>Leymus mollis</i> . Czech Journal of Genetics and Plant Breeding, 2015, 51, 162-165.	0.8	10
25	Genetic variation in winter barley and selection of high yielding lines. Indian Journal of Agricultural Research, 2015, 49, .	0.1	1
26	Rare allele of HvLox-1 associated with lipoxygenase activity in barley ( <i>Hordeum vulgare</i> L.). Theoretical and Applied Genetics, 2014, 127, 2095-2103.	3.6	5
27	A SSR kit to study genetic diversity in chickpea ( <i>Cicer arietinum</i> L.). Plant Genetic Resources: Characterisation and Utilisation, 2014, 12, S118-S120.	0.8	5
28	Advances in Lentil Genomics. , 2014, , 111-130.		15
29	Variation at the vernalisation genes <i>Vrn-H1</i> and <i>Vrn-H2</i> determines growth and yield stability in barley ( <i>Hordeum vulgare</i> ) grown under dryland conditions in Syria. Theoretical and Applied Genetics, 2013, 126, 2803-2824.	3.6	75
30	QTL for yield and associated traits in the Seri/Babax population grown across several environments in Mexico, in the West Asia, North Africa, and South Asia regions. Theoretical and Applied Genetics, 2013, 126, 971-984.	3.6	119
31	Grass Pea. , 2013, , 269-292.		25
32	Pathogenic and genetic diversity of <i>Didymella rabiei</i> affecting chickpea in Syria. Crop Protection, 2013, 46, 70-79.	2.1	18
33	SSR analysis of introgression of drought tolerance from the genome of <i>Hordeum spontaneum</i> into cultivated barley ( <i>Hordeum vulgare</i> ssp <i>vulgare</i> ). Euphytica, 2013, 191, 231-243.	1.2	18
34	Genetic analysis and phenotypic associations for drought tolerance in <i>Hordeum spontaneum</i> introgression lines using SSR and SNP markers. Euphytica, 2013, 189, 9-29.	1.2	42
35	Screening for Prostate Cancer: Can We Learn from the Mistakes of the Breast Screening Experience?. European Urology, 2013, 64, 540-541.	1.9	2
36	Single Nucleotide Polymorphisms in HSP17.8 and Their Association with Agronomic Traits in Barley. PLoS ONE, 2013, 8, e56816.	2.5	27

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37	Genetic diversity among summer and winter <i>Beauveria bassiana</i> populations as revealed by AFLP analysis. <i>Journal of Asia-Pacific Entomology</i> , 2013, 16, 269-273.	0.9	5
38	Pathogenicity Spectra and Screening for Resistance in Barley Against Tunisian <i>Pyrenophora teres</i> f. <i>teres</i> . <i>Plant Disease</i> , 2012, 96, 1569-1575.	1.4	5
39	Pathogenic and genetic diversity of <i>Botrytis fabae</i> Sand. isolates from faba bean fields in different agro-ecological zones of Northern Ethiopia. <i>Archives of Phytopathology and Plant Protection</i> , 2012, 45, 1218-1236.	1.3	9
40	Molecular characterization of Ethiopian indigenous goat populations. <i>Tropical Animal Health and Production</i> , 2012, 44, 1239-1246.	1.4	34
41	Genome wide association analyses for drought tolerance related traits in barley ( <i>Hordeum vulgare</i> ) Tj ETQq1 1 0.784314 rgBTj/Overlook	5.1	91
42	The yield correlations of selectable physiological traits in a population of advanced spring wheat lines grown in warm and drought environments. <i>Field Crops Research</i> , 2012, 128, 129-136.	5.1	125
43	Allelic Variations of a Light Harvesting Chlorophyll A/B-Binding Protein Gene ( <i>Lhcb1</i> ) Associated with Agronomic Traits in Barley. <i>PLoS ONE</i> , 2012, 7, e37573.	2.5	69
44	Agronomic Performance of Elite Stem Rust Resistant Spring Wheat Genotypes and Association among Trial Sites in the Central and West Asia and North Africa Region. <i>Crop Science</i> , 2012, 52, 1105-1114.	1.8	30
45	A Method for Estimating Limits of Differentially Expressed Levels in cDNA Microarray. , 2011, , .		0
46	Expression of the DREB1A gene in lentil ( <i>Lens culinaris</i> Medik. subsp. <i>culinaris</i> ) transformed with the Agrobacterium system. <i>Crop and Pasture Science</i> , 2011, 62, 488.	1.5	33
47	The potential contribution of wild barley ( <i>Hordeum vulgare</i> ssp. <i>spontaneum</i> ) germplasm to drought tolerance of cultivated barley ( <i>H. vulgare</i> ssp. <i>vulgare</i> ). <i>Field Crops Research</i> , 2011, 120, 161-168.	5.1	54
48	Chickpea Ascochyta Blight: Disease Status and Pathogen Mating Type Distribution in Syria. <i>Journal of Phytopathology</i> , 2011, 159, no-no.	1.0	7
49	Sources of resistance in bread wheat to Russian wheat aphid ( <i>Diuraphis noxia</i> ) in Syria identified using the Focused Identification of Germplasm Strategy (FIGS). <i>Plant Breeding</i> , 2011, 130, 96-97.	1.9	90
50	Comparative virulence of <i>Pyrenophora teres</i> f. <i>teres</i> from Syria and Tunisia and screening for resistance sources in barley: implications for breeding. <i>Letters in Applied Microbiology</i> , 2011, 53, 489-502.	2.2	8
51	Genetic Diversity of Iraqi Date Palms Revealed By Microsatellite Polymorphism. <i>Journal of the American Society for Horticultural Science</i> , 2011, 136, 282-287.	1.0	31
52	Assessing genetic diversity of Hamdani sheep breed in Kurdistan region of Iraq using microsatellite markers. <i>African Journal of Biotechnology</i> , 2011, 10, .	0.6	9
53	New approaches for the study of osmotic stress induced by polyethylene glycol (PEG) in cereal species. <i>Cereal Research Communications</i> , 2010, 38, 471-481.	1.6	7
54	Features of SNP and SSR diversity in a set of ICARDA barley germplasm collection. <i>Molecular Breeding</i> , 2010, 26, 229-242.	2.1	34

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55	Characterization of a prolyl endoprotease from <i>Eurygaster integriceps</i> puton (Sunn pest) infested wheat. Archives of Insect Biochemistry and Physiology, 2010, 74, 163-178.	1.5	27
56	Diversity maintenance and use of <i>Vicia faba</i> L. genetic resources. Field Crops Research, 2010, 115, 270-278.	5.1	155
57	Development of new microsatellite markers and their application in the analysis of genetic diversity in lentils. Breeding Science, 2009, 59, 77-86.	1.9	89
58	Asymmetric allele-specific expression in relation to developmental variation and drought stress in barley hybrids. Plant Journal, 2009, 59, 14-26.	5.7	56
59	Identification of barley mutants in the cultivar 'Lux' at the <i>Dhn</i> loci through TILLING. Plant Breeding, 2009, 128, 332-336.	1.9	42
60	Differentially expressed genes between drought-tolerant and drought-sensitive barley genotypes in response to drought stress during the reproductive stage. Journal of Experimental Botany, 2009, 60, 3531-3544.	4.8	349
61	Isolation and sequence analysis of DREB2A homologues in three cereal and two legume species. Plant Science, 2009, 177, 460-467.	3.6	33
62	QTL Analysis of Ascochyta Blight Resistance in Chickpea. Communications in Computer and Information Science, 2009, , 25-40.	0.5	4
63	Genetical Analysis of Ascochyta Blight Resistance in Chickpea. Communications in Computer and Information Science, 2009, , 31-37.	0.5	4
64	Identification and validation of a core set of informative genic SSR and SNP markers for assaying functional diversity in barley. Molecular Breeding, 2008, 22, 1-13.	2.1	57
65	Mapping adaptation of barley to droughted environments. Euphytica, 2008, 161, 35-45.	1.2	44
66	QTLs for chlorophyll and chlorophyll fluorescence parameters in barley under post-flowering drought. Euphytica, 2008, 163, 203-214.	1.2	140
67	Genetic diversity of ICARDA's worldwide barley landrace collection. Genetic Resources and Crop Evolution, 2008, 55, 1221-1230.	1.6	24
68	Quantitative trait loci associated with adaptation to Mediterranean dryland conditions in barley. Theoretical and Applied Genetics, 2008, 117, 653-669.	3.6	122
69	Genetic Diversity and Association Analysis for Salinity Tolerance, Heading Date and Plant Height of Barley Germplasm Using Simple Sequence Repeat Markers. Journal of Integrative Plant Biology, 2008, 50, 1004-1014.	8.5	37
70	SuperSAGE: the drought stress-responsive transcriptome of chickpea roots. BMC Genomics, 2008, 9, 553.	2.8	209
71	Genetic structure, diversity, and allelic richness in composite collection and reference set in chickpea ( <i>Cicer arietinum</i> L.). BMC Plant Biology, 2008, 8, 106.	3.6	170
72	SSR and SNP diversity in a barley germplasm collection. Plant Genetic Resources: Characterisation and Utilisation, 2008, 6, 167-174.	0.8	10

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73	Identification and Mapping of QTLs for Resistance to Ascochyta Blight (Pathotype III) in Chickpea. , 2008, , .		0
74	Molecular Approaches and Breeding Strategies for Drought Tolerance in Barley. , 2007, , 51-79.		30
75	PARTICIPATORY PLANT BREEDING IN WATER-LIMITED ENVIRONMENTS. Experimental Agriculture, 2007, 43, 411-435.	0.9	106
76	Consequences of a decentralized participatory barley breeding programme on changes in SSR allele frequency and diversity in one cycle of selection. Plant Breeding, 2007, 126, 527-532.	1.9	7
77	Genetic diversity of Rhynchosporium secalis in Tunisia as revealed by pathotype, AFLP, and microsatellite analyses. Mycopathologia, 2007, 163, 281-294.	3.1	29
78	Transcriptional analysis between two wheat near-isogenic lines contrasting in aluminum tolerance under aluminum stress. Molecular Genetics and Genomics, 2007, 277, 1-12.	2.1	70
79	Differential Selection on Rhynchosporium secalis During Parasitic and Saprophytic Phases in the Barley Scald Disease Cycle. Phytopathology, 2006, 96, 1214-1222.	2.2	85
80	Resistance gene analogs associated with Fusarium head blight resistance in wheat. Euphytica, 2006, 151, 251-261.	1.2	16
81	Analysis of genetic diversity in Tunisian durum wheat cultivars and related wild species by SSR and AFLP markers. Genetic Resources and Crop Evolution, 2005, 52, 21-31.	1.6	59
82	Alternative Splicing Microarrays Reveal Functional Expression of Neuron-specific Regulators in Hodgkin Lymphoma Cells. Journal of Biological Chemistry, 2005, 280, 4779-4784.	3.4	76
83	New molecular markers linked to qualitative and quantitative powdery mildew and scald resistance genes in barley for dry areas. Euphytica, 2004, 135, 225-228.	1.2	18
84	Conservation of microsatellite flanking sequences in different taxa of Leguminosae. Euphytica, 2004, 138, 239-245.	1.2	22
85	Characterization of an Escherichia coli elaC deletion mutant. Biochemical and Biophysical Research Communications, 2004, 320, 1365-1373.	2.1	26
86	Validation of a novel, fully integrated and flexible microarray benchtop facility for gene expression profiling. Nucleic Acids Research, 2003, 31, 151e-151.	14.5	89
87	Title is missing!. Euphytica, 2002, 125, 265-272.	1.2	34
88	Breeding for Drought Resistance in a Changing Climate. CSSA Special Publication - Crop Science Society of America, 0, , 167-190.	0.1	26
89	Biotechnology: Can It Really Solve the Problems of Food Production?. Assa, Cssa and Sssa, 0, , 89-95.	0.6	1