# Goetz Hensel

List of Publications by Year
in descending order

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|---|---|---|---|
| 108 papers | 5,346 citations | 76326 40 h-index | 95266 68 g-index |
| 125 all docs | 125 docs citations | 125 times ranked | 5568 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | HIGS: Host-Induced Gene Silencing in the Obligate Biotrophic Fungal Pathogen Blumeria graminis Â Â. Plant Cell, 2010, 22, 3130-3141. | 6.6 | 663 |
| 2 | Evolution of the Grain Dispersal System in Barley. Cell, 2015, 162, 527-539. | 28.9 | 265 |
| 3 | A Set of Modular Binary Vectors for Transformation of Cereals. Plant Physiology, 2007, 145, 1192-1200. | 4.8 | 205 |
| 4 | Genetic transformation of barley (Hordeum vulgare L.) via infection of androgenetic pollen cultures with Agrobacterium tumefaciens. Plant Biotechnology Journal, 2006, 4, 251-261. | 8.3 | 191 |
| 5 | Unleashing floret fertility in wheat through the mutation of a homeobox gene. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5182-5187. | 7.1 | 158 |
| 6 | Efficient generation of transgenic barley: The way forward to modulate plantâ€“microbe interactions. Journal of Plant Physiology, 2008, 165, 71-82. | 3.5 | 135 |
| 7 | Agrobacterium-Mediated Gene Transfer to Cereal Crop Plants: Current Protocols for Barley, Wheat, Triticale, and Maize. International Journal of Plant Genomics, 2009, 2009, 1-9. | 2.2 | 128 |
| 8 | A Barley ROP GTPase ACTIVATING PROTEIN Associates with Microtubules and Regulates Entry of the Barley Powdery Mildew Fungus into Leaf Epidermal Cells Â. Plant Cell, 2011, 23, 2422-2439. | 6.6 | 127 |
| 9 | The wheat <scp>L</scp>r34 gene provides resistance against multiple fungal pathogens in barley. Plant Biotechnology Journal, 2013, 11, 847-854. | 8.3 | 116 |
| 10 | The CRISPR/Cas revolution continues: From efficient gene editing for crop breeding to plant synthetic biology. Journal of Integrative Plant Biology, 2018, 60, 1127-1153. | 8.5 | 109 |
| 11 | Abscisic acid is a substrate of the <scp>ABC</scp> transporter encoded by the durable wheat disease resistance gene Lr34. New Phytologist, 2019, 223, 853-866. | 7.3 | 102 |
| 12 | Promoters of the Barley Germin-LikeGER4Gene Cluster Enable Strong Transgene Expression in Response to Pathogen Attack Â. Plant Cell, 2010, 22, 937-952. | 6.6 | 100 |
| 13 | The fungal core effector <scp>P</scp>ep1 is conserved across smuts of dicots and monocots. New Phytologist, 2015, 206, 1116-1126. | 7.3 | 100 |
| 14 | True-Breeding Targeted Gene Knock-Out in Barley Using Designer TALE-Nuclease in Haploid Cells. PLoS ONE, 2014, 9, e92046. | 2.5 | 91 |
| 15 | A Distorted Circadian Clock Causes Early Flowering and Temperature-Dependent Variation in Spike Development in the Eps-3Am Mutant of Einkorn Wheat. Genetics, 2014, 196, 1253-1261. | 2.9 | 88 |
| 16 | PROTEIN DISULFIDE ISOMERASE LIKE 5-1 is a susceptibility factor to plant viruses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2104-2109. | 7.1 | 85 |
| 17 | Abscisic Acid Flux Alterations Result in Differential Abscisic Acid Signaling Responses and Impact Assimilation Efficiency in Barley under Terminal Drought Stress. Plant Physiology, 2014, 164, 1677-1696. | 4.8 | 85 |
| 18 | Mitogen-Activated Protein Kinase Kinase 3 Regulates Seed Dormancy in Barley. Current Biology, 2016, 26, 775-781. | 3.9 | 85 |

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|---|---|---|---|
| 19 | BAX INHIBITOR-1 Is Required for Full Susceptibility of Barley to Powdery Mildew. Molecular Plant-Microbe Interactions, 2010, 23, 1217-1227. | 2.6 | 84 |
| 20 | Ectopic Expression of Constitutively Activated RACB in Barley Enhances Susceptibility to Powdery Mildew and Abiotic Stress. Plant Physiology, 2005, 139, 353-362. | 4.8 | 80 |
| 21 | Modification of Barley Plant Productivity Through Regulation of Cytokinin Content by Reverse-Genetics Approaches. Frontiers in Plant Science, 2018, 9, 1676. | 3.6 | 79 |
| 22 | Evolutionary Conserved Function of Barley and Arabidopsis 3-KETOACYL-CoA SYNTHASES in Providing Wax Signals for Germination of Powdery Mildew Fungi Â Â. Plant Physiology, 2014, 166, 1621-1633. | 4.8 | 76 |
| 23 | A Conserved Apomixis-Specific Polymorphism Is Correlated with Exclusive Exonuclease Expression in Premeiotic Ovules of Apomictic Boechera Species. Plant Physiology, 2013, 163, 1660-1672. | 4.8 | 71 |
| 24 | Divergence of expression pattern contributed to neofunctionalization of duplicated <scp>HD</scp>â€<scp>Z</scp>ip <scp>I</scp> transcription factor in barley. New Phytologist, 2013, 197, 939-948. | 7.3 | 67 |
| 25 | Polarized Defense Against Fungal Pathogens Is Mediated by the Jacalin-Related Lectin Domain of Modular Poaceae -Specific Proteins. Molecular Plant, 2016, 9, 514-527. | 8.3 | 67 |
| 26 | Constitutively activated barley ROPs modulate epidermal cell size, defense reactions and interactions with fungal leaf pathogens. Plant Cell Reports, 2008, 27, 1877-1887. | 5.6 | 65 |
| 27 | Whirly1 in chloroplasts associates with intron containing RNAs and rarely co-localizes with nucleoids. Planta, 2010, 232, 471-481. | 3.2 | 65 |
| 28 | Improving rice salt tolerance by precision breeding in a new era. Current Opinion in Plant Biology, 2021, 60, 101996. | 7.1 | 61 |
| 29 | RBOHF2 of Barley Is Required for Normal Development of Penetration Resistance to the Parasitic Fungus Blumeria graminis f. sp. hordei. Molecular Plant-Microbe Interactions, 2010, 23, 1143-1150. | 2.6 | 60 |
| 30 | Convergent evolution of a metabolic switch between aphid and caterpillar resistance in cereals. Science Advances, 2018, 4, eaat6797. | 10.3 | 58 |
| 31 | Repair of Site-Specific DNA Double-Strand Breaks in Barley Occurs via Diverse Pathways Primarily Involving the Sister Chromatid. Plant Cell, 2014, 26, 2156-2167. | 6.6 | 55 |
| 32 | Targeted Modification of Gene Function Exploiting Homology-Directed Repair of TALEN-Mediated Double-Strand Breaks in Barley. G3: Genes, Genomes, Genetics, 2015, 5, 1857-1863. | 1.8 | 53 |
| 33 | 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. | 7.3 | 52 |
| 34 | Leaf Variegation and Impaired Chloroplast Development Caused by a Truncated CCT Domain Gene in albostrians Barley. Plant Cell, 2019, 31, 1430-1445. | 6.6 | 52 |
| 35 | The green fluorescent protein targets secretory proteins to the yeast vacuole. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1410, 287-298. | 1.0 | 49 |
| 36 | Stable gene replacement in barley by targeted double-strand break induction. Journal of Experimental Botany, 2016, 67, 1433-1445. | 4.8 | 49 |

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|---|---|---|---|
| 37 | WHIRLY1 is a major organizer of chloroplast nucleoids. Frontiers in Plant Science, 2014, 5, 432. | 3.6 | 48 |
| 38 | The wheat resistance gene Lr34 results in the constitutive induction of multiple defense pathways in transgenic barley. Plant Journal, 2015, 84, 202-215. | 5.7 | 45 |
| 39 | Prime Editing: A New Way for Genome Editing. Trends in Cell Biology, 2020, 30, 257-259. | 7.9 | 45 |
| 40 | Induction of telomereâ€mediated chromosomal truncation and stability of truncated chromosomes in Arabidopsis thaliana. Plant Journal, 2011, 68, 28-39. | 5.7 | 44 |
| 41 | A simple test for the cleavage activity of customized endonucleases in plants. Plant Methods, 2016, 12, 18. | 4.3 | 43 |
| 42 | Telomere-mediated truncation of barley chromosomes. Chromosoma, 2012, 121, 181-190. | 2.2 | 41 |
| 43 | Transgenic Production of an Anti HIV Antibody in the Barley Endosperm. PLoS ONE, 2015, 10, e0140476. | 2.5 | 41 |
| 44 | Immature pollen-derived doubled haploid formation in barley cv. Golden Promise as a tool for transgene recombination. Acta Physiologiae Plantarum, 2005, 27, 591-599. | 2.1 | 40 |
| 45 | Transgene expression systems in the Triticeae cereals. Journal of Plant Physiology, 2011, 168, 30-44. | 3.5 | 39 |
| 46 | An LRR/Malectin Receptor-Like Kinase Mediates Resistance to Non-adapted and Adapted Powdery Mildew Fungi in Barley and Wheat. Frontiers in Plant Science, 2016, 7, 1836. | 3.6 | 39 |
| 47 | Pathogenâ€inducible Taâ€Lr34res expression in heterologous barley confers disease resistance without negative pleiotropic effects. Plant Biotechnology Journal, 2018, 16, 245-253. | 8.3 | 39 |
| 48 | The elimination of a selectable marker gene in the doubled haploid progeny of co-transformed barley plants. Plant Molecular Biology, 2013, 81, 149-160. | 3.9 | 37 |
| 49 | The INDETERMINATE DOMAIN Protein BROAD LEAF1 Limits Barley Leaf Width by Restricting Lateral Proliferation. Current Biology, 2016, 26, 903-909. | 3.9 | 37 |
| 50 | Orthologous receptor kinases quantitatively affect the host status of barley to leaf rust fungi. Nature Plants, 2019, 5, 1129-1135. | 9.3 | 37 |
| 51 | HvPap-1 C1A Protease and HvCPI-2 Cystatin Contribute to Barley Grain Filling and Germination. Plant Physiology, 2016, 170, 2511-2524. | 4.8 | 33 |
| 52 | Acceleration of leaf senescence is slowed down in transgenic barley plants deficient in the DNA/RNA-binding protein WHIRLY1. Journal of Experimental Botany, 2017, 68, 983-996. | 4.8 | 30 |
| 53 | Vacuolar processing enzyme 4 contributes to maternal control of grain size in barley by executing programmed cell death in the pericarp. New Phytologist, 2018, 218, 1127-1142. | 7.3 | 30 |
| 54 | Prime Editing: Game Changer for Modifying Plant Genomes. Trends in Plant Science, 2020, 25, 722-724. | 8.8 | 30 |

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|---|---|---|---|
| 55 | RNA-Guided Cas9-Induced Mutagenesis in Tobacco Followed by Efficient Genetic Fixation in Doubled Haploid Plants. Frontiers in Plant Science, 2016, 7, 1995. | 3.6 | 29 |
| 56 | Barley (Hordeum vulgare L.) Transformation Using Immature Embryos. Methods in Molecular Biology, 2015, 1223, 71-83. | 0.9 | 27 |
| 57 | Repression of drought-induced cysteine-protease genes alters barley leaf structure and responses to abiotic and biotic stresses. Journal of Experimental Botany, 2019, 70, 2143-2155. | 4.8 | 26 |
| 58 | Golden SusPtrit: a genetically well transformable barley line for studies on the resistance to rust fungi. Theoretical and Applied Genetics, 2014, 127, 325-337. | 3.6 | 25 |
| 59 | Leaf primordium size specifies leaf width and vein number among rowâ€type classes in barley. Plant Journal, 2017, 91, 601-612. | 5.7 | 25 |
| 60 | The plastid-nucleus located DNA/RNA binding protein WHIRLY1 regulates microRNA-levels during stress in barley (Hordeum vulgare L.). RNA Biology, 2018, 15, 886-891. | 3.1 | 25 |
| 61 | HvPap-1 C1A protease actively participates in barley proteolysis mediated by abiotic stresses. Journal of Experimental Botany, 2016, 67, 4297-4310. | 4.8 | 24 |
| 62 | Genetic transformation technology in the Triticeae. Breeding Science, 2009, 59, 553-560. | 1.9 | 22 |
| 63 | Analysis of T-DNA integration and generative segregation in transgenic winter triticale (x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 | 3.6 | 22 |
| 64 | Cellular dynamics during early barley pollen embryogenesis revealed by time-lapse imaging. Frontiers in Plant Science, 2014, 5, 675. | 3.6 | 22 |
| 65 | Overexpression of HvIcy6 in Barley Enhances Resistance against Tetranychus urticae and Entails Partial Transcriptomic Reprogramming. International Journal of Molecular Sciences, 2018, 19, 697. | 4.1 | 21 |
| 66 | Targeted genome modifcation in protoplasts of a highly regenerable Siberian barley cultivar using RNA-guided Cas9 endonuclease. Vavilovskii Zhurnal Genetiki I Selektsii, 2019, 22, 1033-1039. | 1.1 | 21 |
| 67 | Silencing barley cystatins HvCPIâ€2 and HvCPIâ€4 specifically modifies leaf responses to drought stress. Plant, Cell and Environment, 2018, 41, 1776-1790. | 5.7 | 20 |
| 68 | Are PECTIN ESTERASE INHIBITOR Genes Involved in Mediating Resistance to Rhynchosporium commune in Barley?. PLoS ONE, 2016, 11, e0150485. | 2.5 | 19 |
| 69 | The nucleoid-associated protein WHIRLY1 is required for the coordinate assembly of plastid and nucleus-encoded proteins during chloroplast development. Planta, 2019, 249, 1337-1347. | 3.2 | 18 |
| 70 | Genetic transformation of Triticeae cereals â€“ Summary of almost three-decade's development. Biotechnology Advances, 2020, 40, 107484. | 11.7 | 18 |
| 71 | Genome editing and beyond: what does it mean for the future of plant breeding?. Planta, 2022, 255, 130. | 3.2 | 17 |
| 72 | Expression of the tobacco gene CBP20 in response to developmental stage, wounding, salicylic acid and heavy metals. Plant Science, 1999, 148, 165-174. | 3.6 | 16 |

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|---|---|---|---|
| 73 | Grain filling in barley relies on developmentally controlled programmed cell death. Communications Biology, 2021, 4, 428. | 4.4 | 15 |
| 74 | OMICs, Epigenetics, and Genome Editing Techniques for Food and Nutritional Security. Plants, 2021, 10, 1423. | 3.5 | 15 |
| 75 | Time-lapse imaging of the initiation of pollen embryogenesis in barley (Hordeum vulgare L.). Journal of Experimental Botany, 2012, 63, 6017-6021. | 4.8 | 14 |
| 76 | Barley ADH-1 modulates susceptibility to Bgh and is involved in chitin-induced systemic resistance. Plant Physiology and Biochemistry, 2018, 123, 281-287. | 5.8 | 14 |
| 77 | Genetic Transformation of Barley (Hordeum Vulgare L.) by Co-Culture of Immature Embryos with Agrobacterium. , 2004, , 35-44. | | 14 |
| 78 | Barley cysteine protease PAP14 plays a role in degradation of chloroplast proteins. Journal of Experimental Botany, 2019, 70, 6057-6069. | 4.8 | 13 |
| 79 | Agrobacterium-Mediated Transformation of Wheat Using Immature Embryos. Methods in Molecular Biology, 2017, 1679, 129-139. | 0.9 | 12 |
| 80 | Genome Engineering Using TALENs. Methods in Molecular Biology, 2019, 1900, 195-215. | 0.9 | 12 |
| 81 | WHIRLIES Are Multifunctional DNA-Binding Proteins With Impact on Plant Development and Stress Resistance. Frontiers in Plant Science, 2022, 13, 880423. | 3.6 | 12 |
| 82 | The barley leaf rust resistance gene Rph3 encodes a predicted membrane protein and is induced upon infection by avirulent pathotypes of Puccinia hordei. Nature Communications, 2022, 13, 2386. | 12.8 | 12 |
| 83 | Targeted Base Editing Systems Are Available for Plants. Trends in Plant Science, 2018, 23, 955-957. | 8.8 | 11 |
| 84 | Increasing abscisic acid levels by immunomodulation in barley grains induces precocious maturation without changing grain composition. Journal of Experimental Botany, 2016, 67, 2675-2687. | 4.8 | 10 |
| 85 | Evolutionarily conserved partial gene duplication in the Triticeae tribe of grasses confers pathogen resistance. Genome Biology, 2018, 19, 116. | 8.8 | 9 |
| 86 | More precise, more universal and more specific â€“ the next generation of RNAâ€guided endonucleases for genome editing. FEBS Journal, 2019, 286, 4657-4660. | 4.7 | 9 |
| 87 | Kmasker plants â€“ a tool for assessing complex sequence space in plant species. Plant Journal, 2020, 102, 631-642. | 5.7 | 8 |
| 88 | Plastid-Targeted Cyanobacterial Flavodiiron Proteins Maintain Carbohydrate Turnover and Enhance Drought Stress Tolerance in Barley. Frontiers in Plant Science, 2020, 11, 613731. | 3.6 | 7 |
| 89 | Mutation of the ALBOSTRIANS Ohnologous Gene HvCMF3 Impairs Chloroplast Development and Thylakoid Architecture in Barley. Frontiers in Plant Science, 2021, 12, 732608. | 3.6 | 7 |
| 90 | The meiotic topoisomerase VI B subunit (MTOPVIB) is essential for meiotic DNA double-strand break formation in barley (Hordeum vulgare L.). Plant Reproduction, 0, , . | 2.2 | 7 |

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|---|---|---|---|
| 91 | Barley HISTIDINE KINASE 1 (HvHK1) coordinates transfer cell specification in the young endosperm. Plant Journal, 2020, 103, 1869-1884. | 5.7 | 6 |
| 92 | The Arabidopsis AAC Proteins CIL and CIA2 Are Sub-functionalized Paralogs Involved in Chloroplast Development. Frontiers in Plant Science, 2021, 12, 681375. | 3.6 | 6 |
| 93 | The influence of 2,4-dichlorophenoxyacetic acid on localisation of the PR-proteins CBP20 and class I chitinase in tobacco suspension cell cultures. Plant Science, 2002, 163, 1099-1106. | 3.6 | 5 |
| 94 | Effect of Thiobacillus and Superabsorbent on Essential Oil Components in Thyme Species. Journal of Essential Oil-bearing Plants: JEOP, 2019, 22, 799-810. | 1.9 | 5 |
| 95 | Site-Directed Mutagenesis in Barley by Expression of TALE Nuclease in Embryogenic Pollen. , 2017, , 113-128. | | 4 |
| 96 | Posttranslational modification of the RHO of plants protein RACB by phosphorylation and cross-kingdom conserved ubiquitination. PLoS ONE, 2022, 17, e0258924. | 2.5 | 4 |
| 97 | Enhancing cereal productivity by genetic modification of root architecture. Biotechnology Journal, 2022, 17, e2100505. | 3.5 | 4 |
| 98 | Transgenic barley in applied research and biotechnology. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2007, 2, 104-104. | 1.4 | 3 |
| 99 | Triticeae Cereals. Biotechnology in Agriculture and Forestry, 2010, , 287-306. | 0.2 | 3 |
| 100 | Cloning of the wound-inducible protein CBP20 and expression in suspension cultures of tobacco. Plant Science, 1997, 128, 199-206. | 3.6 | 2 |
| 101 | Expression of influenza A (H5N1) vaccine in barley grains for oral bird immunization. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2007, 2, 118-118. | 1.4 | 2 |
| 102 | Efficient Agrobacterium-Mediated Transformation of Various Barley (Hordeum vulgare L.) Genotypes. , 2007, , 143-145. | | 2 |
| 103 | Genome editing of barley. , 2021, , 325-340. | | 1 |
| 104 | Genetic Transformation of Triticeae Cereals for Molecular Farming. , 0, , . | | 1 |
| 105 | Structural Changes During The Initiation Of Pollen Embryogenesis In Barley: Ultrastructure Analysis And Live Cell Imaging. Microscopy and Microanalysis, 2012, 18, 258-259. | 0.4 | 0 |
| 106 | Domestikation im Zeitraffer: Wie die Gerste zu mehr KÃ¶rnern kam. Biologie in Unserer Zeit, 2014, 44, 11-12. | 0.2 | 0 |
| 107 | SYNTHETIC ENDONUCLEASES: NOVEL TOOLS FOR THE SITE-DIRECTED GENETIC MODIFICATION OF PLANTS. Acta Horticulturae, 2015, , 71-81. | 0.2 | 0 |
| 108 | Genome editing of barley. , 2021, , 325-340. | | 0 |