

# Hirokazu Kobayashi

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

3,320  
citations

361413

20  
h-index

206112

48  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3262  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Engineered GFP as a vital reporter in plants. <i>Current Biology</i> , 1996, 6, 325-330.  | 3.9 | 1,322     |
| 2  | Non-invasive quantitative detection and applications of non-toxic, S65T-type green fluorescent protein in living plants. <i>Plant Journal</i> , 1999, 18, 455-463.  | 5.7 | 381       |
| 3  | Green-fluorescent protein as a new vital marker in plant cells. <i>Plant Journal</i> , 1995, 8, 777-784.  | 5.7 | 375       |
| 4  | A Recessive Arabidopsis Mutant That Grows Photoautotrophically under Salt Stress Shows Enhanced Active Oxygen Detoxification. <i>Plant Cell</i> , 1999, 11, 1195-1206.                                    | 6.6 | 299       |
| 5  | Sigma factor phosphorylation in the photosynthetic control of photosystem stoichiometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10760-10764. | 7.1 | 97        |
| 6  | Distribution and Excretion of Bilberry Anthocyanins in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 7681-7686.   | 5.2 | 68        |
| 7  | DNA Methylation Occurred around Lowly Expressed Genes of Plastid DNA during Tomato Fruit Development. <i>Plant Physiology</i> , 1988, 88, 16-20.  | 4.8 | 53        |
| 8  | bHLH106 Integrates Functions of Multiple Genes through Their G-Box to Confer Salt Tolerance on Arabidopsis. <i>PLoS ONE</i> , 2015, 10, e0126872.   | 2.5 | 53        |
| 9  | Efficient integrative transformation of the phytopathogenic fungus <i>Alternaria alternata</i> mediated by the repetitive rDNA sequences. <i>Gene</i> , 1990, 90, 207-214.                                | 2.2 | 43        |
| 10 | Selectable Tolerance to Herbicides by Mutated Acetolactate Synthase Genes Integrated into the Chloroplast Genome of Tobacco. <i>Plant Physiology</i> , 2008, 147, 1976-1983.                              | 4.8 | 43        |
| 11 | Expression of genes for subunits of plant-type RuBisCO from <i>Chromatium</i> and production of the enzymically active molecule in <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1985, 192, 283-288.    | 2.8 | 37        |
| 12 | Organization of ribosomal RNA genes in <i>Alternaria alternata</i> Japanese pear pathotype, a host-selective AK-toxin-producing fungus. <i>Current Genetics</i> , 1989, 16, 267-272.                      | 1.7 | 36        |
| 13 | Structure, circadian regulation and bioinformatic analysis of the unique sigma factor gene in <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2004, 82, 339-349.                      | 2.9 | 35        |
| 14 | Molecular evolution of ribulose-1,5-biphosphate carboxylase/oxygenase (RuBisCO). <i>Trends in Biochemical Sciences</i> , 1984, 9, 380-383.  | 7.5 | 34        |
| 15 | Amyloplast nucleoids in sycamore cells and presence in amyloplast DNA of homologous sequences to chloroplast genes. <i>Biochemical and Biophysical Research Communications</i> , 1985, 133, 140-146.      | 2.1 | 31        |
| 16 | Development of Enzymes Involved in Photosynthetic Carbon Assimilation in Greening Seedlings of Maize ( <i>Zea mays</i> ). <i>Plant Physiology</i> , 1980, 65, 198-203.                                    | 4.8 | 30        |
| 17 | Expression of Amyloplast and Chloroplast DNA in Suspension-Cultured Cells of Sycamore ( <i>Acer</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 10  | 4.8 | 30        |
| 18 | Roles of the Large and Small Subunits of Ribulose-1, 5-Bisphosphate Carboxylase in the Activation by CO <sub>2</sub> and Mg <sup>2+</sup> . <i>Journal of Biochemistry</i> , 1979, 85, 923-930.           | 1.7 | 24        |

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|----|--|-----|-----------|
| 19 | Biosynthetic mechanism of ribulose-1,5-bisphosphate carboxylase in the purple photosynthetic bacterium, <i>Chromatium vinosum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1982, 214, 531-539.                             | 3.0 | 24        |
| 20 | DNA methylation is a determinative element of photosynthesis gene expression in amyloplasts from liquid-cultured cells of sycamore ( <i>Acer pseudoplatanus</i> L.). <i>Cell Structure and Function</i> , 1990, 15, 285-293.         | 1.1 | 21        |
| 21 | Nuclear Gene-Regulated Expression of Chloroplast Genes for Coupling Factor One in Maize. <i>Plant Physiology</i> , 1987, 85, 757-767.  | 4.8 | 19        |
| 22 | Herbicide sensitivities of mutated enzymes expressed from artificially generated genes of acetolactate synthase. <i>Journal of Pesticide Sciences</i> , 2008, 33, 128-137.   | 1.4 | 19        |
| 23 | Protection of Human Colon Cells from Shiga Toxin by Plant-based Recombinant Secretory IgA. <i>Scientific Reports</i> , 2017, 7, 45843.   | 3.3 | 18        |
| 24 | Transcriptional regulation of genes for plant-type ribulose-1,5-bisphosphate carboxylase/oxygenase in the photosynthetic bacterium, <i>Chromatium vinosum</i> . <i>FEBS Journal</i> , 1988, 173, 483-489.                            | 0.2 | 17        |
| 25 | The Herbicide-Resistant Species of the Cyanobacterial D1 Protein Obtained by Thorough and Random in vitro Mutagenesis. <i>Plant and Cell Physiology</i> , 1998, 39, 620-626.   | 3.1 | 16        |
| 26 | Production of Hybrid-IgG/IgA Plantibodies with Neutralizing Activity against Shiga Toxin 1. <i>PLoS ONE</i> , 2013, 8, e80712.   | 2.5 | 16        |
| 27 | Preliminary characterization of a photo-tolerant mutant of <i>Synechocystis</i> sp. PCC 6803 obtained by in vitro random mutagenesis of <i>psbA2</i> . <i>Plant Science</i> , 1996, 115, 261-266.                                    | 3.6 | 15        |
| 28 | Arabidopsis Mutants by Activation Tagging in which Photosynthesis Genes are Expressed in Dedifferentiated Calli. <i>Plant and Cell Physiology</i> , 2006, 47, 319-331.   | 3.1 | 15        |
| 29 | Biosynthetic mechanism of ribulose-1,5-bisphosphate carboxylase in the purple photosynthetic bacterium, <i>Chromatium vinosum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1982, 214, 540-549.                             | 3.0 | 13        |
| 30 | Expression of amyloplast DNA in suspension-cultured cells of sycamore ( <i>Acer pseudoplatanus</i> L.). <i>FEBS Letters</i> , 1986, 201, 315-320.  | 2.8 | 13        |
| 31 | Antiangiogenic Activity of Flavonoids from <i>Melia azedarach</i> . <i>Natural Product Communications</i> , 2013, 8, 1934578X1300801.  | 0.5 | 13        |
| 32 | In Vitro Random Mutagenesis of the D1 Protein of the Photosystem II Reaction Center Confers Phototolerance on the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 1999, 274, 23270-23275. | 3.4 | 12        |
| 33 | Transformation of Arabidopsis by mutated acetolactate synthase genes from rice and Arabidopsis that confer specific resistance to pyrimidinylcarboxylate-type ALS inhibitors. <i>Plant Biotechnology</i> , 2010, 27, 75-84.          | 1.0 | 12        |
| 34 | Molecular cloning of a cDNA encoding a novel Ca <sup>2+</sup> -dependent nuclease of Arabidopsis that is similar to staphylococcal nuclease. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000, 1491, 267-272.  | 2.4 | 9         |
| 35 | Expression of photosynthetic genes is distinctly different between chloroplasts and amyloplasts in the liquid-cultured cells of sycamore ( <i>Acer pseudoplatanus</i> L.). <i>Cell Structure and Function</i> , 1990, 15, 273-283.   | 1.1 | 9         |
| 36 | Genome-Wide Screening of Salt Tolerant Genes by Activation-Tagging Using Dedifferentiated Calli of Arabidopsis and Its Application to Finding Gene for Myo-Inositol-1-P-Synthase. <i>PLoS ONE</i> , 2015, 10, e0115502.              | 2.5 | 9         |

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|----|---|-----|-----------|
| 37 | Application of an efficient strategy with a phage $\lambda$ vector for constructing a physical map of the amyloplast genome of sycamore ( <i>Acer pseudoplatanus</i> ). Archives of Biochemistry and Biophysics, 1990, 276, 172-179.                                | 3.0 | 7         |
| 38 | Lettuce-derived secretory IgA specifically neutralizes the Shiga toxin 1 activity. Planta, 2019, 250, 1255-1264.  | 3.2 | 7         |
| 39 | Gene for a protein capable of enhancing lateral root formation. FEBS Letters, 1999, 451, 45-50.   | 2.8 | 6         |
| 40 | Differentiation of Amyloplasts and Chromoplasts. , 1991, , 395-415.   |     | 5         |
| 41 | Metabolic regulation of host-specific toxin production in <i>Alternaria alternata</i> pathogens. 4 Molecular cloning of mRNA in AK-toxin producing isolate.. Nihon Shokubutsu Byori Gakkaiho = Annals of the Phytopathological Society of Japan, 1986, 52, 690-699. | 0.1 | 5         |
| 42 | Biosynthetic mechanism of ribulose-1,5-bisphosphate carboxylase in the purple photosynthetic bacterium, <i>Chromatium vinosum</i> . Archives of Biochemistry and Biophysics, 1983, 224, 152-160.  | 3.0 | 4         |
| 43 | A rapid DNA sequencing procedure: Unidirectional deletion of DNA fragments and use of reverse transcriptase in sequencing reactions.. Agricultural and Biological Chemistry, 1988, 52, 277-279.   | 0.3 | 4         |
| 44 | Transformation of <i>Arabidopsis</i> with Plant-Derived DNA Sequences Necessary for Selecting Transformants and Driving an Objective Gene. Bioscience, Biotechnology and Biochemistry, 2009, 73, 936-938.   | 1.3 | 4         |
| 45 | Examination of transpositional activity of nDart1 at different stages of rice development. Genes and Genetic Systems, 2011, 86, 215-219.  | 0.7 | 4         |
| 46 | Plant-derived secretory component forms secretory IgA with shiga toxin 1-specific dimeric IgA produced by mouse cells and whole plants. Plant Cell Reports, 2019, 38, 161-172.  | 5.6 | 4         |
| 47 | A rice mutant displaying a heterochronically elongated internode carries a 100 kb deletion. Journal of Genetics and Genomics, 2011, 38, 123-128.  | 3.9 | 3         |
| 48 | Nondestructive evaluation of photosynthesis by delayed luminescence in <i>Arabidopsis</i> in Petri dishes. Bioscience, Biotechnology and Biochemistry, 2016, 80, 452-460.   | 1.3 | 2         |
| 49 | Expression of Genes for Plant-Type Rubisco in <i>Chromatium</i> and <i>Escherichia Coli</i> . , 1987, , 411-418.  |     | 2         |
| 50 | Plant-derived secretory component gives protease-resistance to Shiga toxin 1-specific dimeric IgA. Plant Molecular Biology, 2021, 106, 297-308.   | 3.9 | 1         |
| 51 | Molecular Analysis of Genes for Pathogenicity of <i>Alternaria alternata</i> Japanese Pear Pathotype, a Host-Specific Toxin Producer. , 1991, , 119-129.  |     | 1         |
| 52 | Effects of Photosynthetic Intermediates on the Activation State of Ribulose 1,5-Bisphosphate Carboxylase/Oxygenase from <i>Euglena gracilis</i> . Z. Agricultural and Biological Chemistry, 1989, 53, 2045-2052.  | 0.3 | 0         |
| 53 | Strategies for Screening New <i>Arabidopsis thaliana</i> Mutants of Expression of Genes for Photosynthesis. , 1992, , 441-443.  |     | 0         |
| 54 | Several Strategies for Dissecting and Controlling Functions in Plant Cells. Developments in Plant Pathology, 1998, , 399-400.   | 0.1 | 0         |