

# CITATION REPORT

List of articles citing

## High-velocity microprojectiles for delivering nucleic acids into living cells

DOI: 10.1038/327070a0  
Nature, 1987, 327, 70-73.

**Source:** <https://exaly.com/paper-pdf/19456860/citation-report.pdf>

**Version:** 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| #    | Paper  | IF  | Citations |
|------|--|-----|-----------|
| 1235 | Transfection of mammalian cells with plasmid DNA by scrape loading and sonication loading. <b>1987</b> , 84, 8463-7                                |     | 261       |
| 1234 | DELIVERY OF SUBSTANCES INTO CELLS AND TISSUES USING A PARTICLE BOMBARDMENT PROCESS. <b>1987</b> , 5, 27-37   |     | 305       |
| 1233 | The selfish organelle. <b>1987</b> , 3, 337-341  |     | 5         |
| 1232 | Shooting genes into plant cells. <b>1987</b> , 5, 181  |     |           |
| 1231 | Transient expression of foreign genes in rice, wheat and soybean cells following particle bombardment. <b>1988</b> , 11, 433-9                     |     | 140       |
| 1230 | Genetic manipulation of plant cells and organelles with a laser microbeam. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1988</b> , 12, 219-222 | 2.7 | 26        |
| 1229 | Microperforation of plant tissue with a UV laser microbeam and injection of DNA into cells. <b>1988</b> , 75, 35-36                                |     | 45        |
| 1228 | Factors Influencing Gene Delivery into Zea Mays Cells by High Velocity Microprojectiles. <b>1988</b> , 6, 559-563                                  |     | 147       |
| 1227 | Stable Transformation of Soybean (Glycine Max) by Particle Acceleration. <b>1988</b> , 6, 923-926  |     | 312       |
| 1226 | Organelle transformation. <b>1988</b> , 4, 150-2   |     | 12        |
| 1225 | Genotypic and phenotypic changes in new plant varieties. <b>1988</b> , 6, S21-S22  |     | 2         |
| 1224 | The biolistic process. <b>1988</b> , 6, 299-302  |     | 230       |
| 1223 | Erratum. <b>1988</b> , 6, 302  |     | 1         |
| 1222 | Biogenesis of mitochondria. <b>1988</b> , 4, 289-333   |     | 1155      |
| 1221 | Genotypic and phenotypic changes in new plant varieties. <b>1988</b> , 3, S21-2  |     |           |
| 1220 | Foreign genes in plants: transfer, structure, expression, and applications. <b>1988</b> , 22, 421-77   |     | 188       |
| 1219 | Chloroplast transformation in Chlamydomonas with high velocity microprojectiles. <b>1988</b> , 240, 1534-8   |     | 852       |

|      |   |     |
|------|---|-----|
| 1218 | Stable Transformation of Soybean Callus by DNA-Coated Gold Particles. <b>1988</b> , 87, 671-4   | 203 |
| 1217 | Plant Molecular Biology. <b>1988</b> ,  | 11  |
| 1216 | Mitochondrial transformation in yeast by bombardment with microprojectiles. <b>1988</b> , 240, 1538-41  | 277 |
| 1215 | Plasmids can stably transform yeast mitochondria lacking endogenous mtDNA. <b>1988</b> , 85, 7288-92  | 128 |
| 1214 | Stable genetic transformation of intact Nicotiana cells by the particle bombardment process. <b>1988</b> , 85, 8502-5   | 213 |
| 1213 | Incorporation of macromolecules into living cells. <b>1989</b> , 29, 153-73   | 85  |
| 1212 | Transfer of foreign genes into intact maize cells with high-velocity microprojectiles. <b>1988</b> , 85, 4305-9   | 260 |
| 1211 | Gene transfer from targeted liposomes to specific lymphoid cells by electroporation. <b>1988</b> , 85, 8027-31  | 33  |
| 1210 | . <b>1989</b> ,   | 3   |
| 1209 | Bibliography. <b>1989</b> , 643-766   |     |
| 1208 | Vectors for Gene Transfer in Higher Plants. <b>1989</b> , 3-34  | 1   |
| 1207 | Methods for Transforming Plant Cells. <b>1989</b> , 35-51   | 2   |
| 1206 | The argininosuccinate lyase gene of Chlamydomonas reinhardtii: an important tool for nuclear transformation and for correlating the genetic and molecular maps of the ARG7 locus.. <b>1989</b> , 8, 2803-2809 | 276 |
| 1205 | Genetic transformation of maize cells by particle bombardment. <b>1989</b> , 91, 440-4  | 148 |
| 1204 | Uptake and transient expression of chimeric genes in seed-derived embryos. <b>1989</b> , 1, 133-9   | 89  |
| 1203 | Studies on Chlamydomonas chloroplast transformation: foreign DNA can be stably maintained in the chromosome. <b>1989</b> , 1, 123-32  | 138 |
| 1202 | Progress toward human gene therapy. <b>1989</b> , 244, 1275-81  | 452 |
| 1201 | Transformation of Soybean (Glycine max) by Infecting Germinating Seeds with Agrobacterium tumefaciens. <b>1989</b> , 91, 1212-8   | 119 |

|      |  |     |
|------|--|-----|
| 1200 | Genetically engineering plants for crop improvement. <b>1989</b> , 244, 1293-9   | 401 |
| 1199 | Microbeads and anchorage-dependent eukaryotic cells: the beginning of a new era in biotechnology. <b>1989</b> , 39, 73-95  | 9   |
| 1198 | Gene transfer to cereals: an assessment. <b>1989</b> , 7, 269-273  | 47  |
| 1197 | A slice of reality from Africa. <b>1989</b> , 7, S14-S15   | 4   |
| 1196 | Genetic resources worldwide. <b>1989</b> , 7, 111-116  | 7   |
| 1195 | Nanofabrication: Opportunities for interdisciplinary research. <b>1989</b> , 9, 5-11   | 2   |
| 1194 | Möglichkeiten und Ansätze für einen Gentransfer bei der Zuckerrübe ( <i>Beta vulgaris</i> L.). <b>1989</b> , 37, 15-27   |     |
| 1193 | Delivery of foreign genes to intact barley cells by high-velocity microprojectiles. <b>1989</b> , 78, 31-4   | 90  |
| 1192 | Direct DNA transfer to plant cells. <b>1989</b> , 13, 273-85   | 73  |
| 1191 | Transient expression of foreign genes in plant cells and tissues obtained by a simple biolistic device (particle-gun). <b>1989</b> , 31, 320                       | 54  |
| 1190 | Transfection of germinating barley seed electrophoretically with exogenous DNA. <b>1989</b> , 77, 469-72   | 42  |
| 1189 | Transgenic plants. <b>1989</b> , 12, 1-19  | 38  |
| 1188 | Plant biotechnology and its application to agriculture. <b>1989</b> , 324, 525-535   | 2   |
| 1187 | Characterization of new DNA sequences of <i>Chlamydomonas reinhardtii</i> that replicate autonomously in <i>Saccharomyces cerevisiae</i> . <b>1989</b> , 59, 77-86 | 6   |
| 1186 | Genetic transformation of mouse cultured cells with the help of high-velocity mechanical DNA injection. <b>1989</b> , 244, 65-7                                    | 34  |
| 1185 | Stable nuclear transformation of <i>Chlamydomonas</i> using the <i>Chlamydomonas</i> gene for nitrate reductase. <b>1989</b> , 109, 2589-601                       | 329 |
| 1184 | Genetic engineering of filamentous fungi. <b>1989</b> , 244, 1313-7  | 130 |
| 1183 | Cytogenetics and genetics of arachis. <b>1989</b> , 8, 189-220   | 22  |

|      |  |          |
|------|--|----------|
| 1182 | Uptake and Transient Expression of Chimeric Genes in Seed-Derived Embryos. <b>1989</b> , 1, 133  | 8        |
| 1181 | Studies on Chlamydomonas Chloroplast Transformation: Foreign DNA Can Be Stably Maintained in the Chromosome. <b>1989</b> , 1, 123                              | 16       |
| 1180 | Regulation of anthocyanin biosynthetic genes introduced into intact maize tissues by microprojectiles. <b>1989</b> , 86, 6681-5                                | 119      |
| 1179 | Isolation and characterization of the nitrate reductase structural gene of Chlamydomonas reinhardtii. <b>1989</b> , 86, 6449-53                                | 212      |
| 1178 | Photoregulation of a phytochrome gene promoter from oat transferred into rice by particle bombardment. <b>1989</b> , 86, 9692-6                                | 161      |
| 1177 | Transient foreign gene expression in chloroplasts of cultured tobacco cells after biolistic delivery of chloroplast vectors. <b>1990</b> , 87, 88-92           | 145      |
| 1176 | Stable nuclear transformation of Chlamydomonas reinhardtii by using a C. reinhardtii gene as the selectable marker. <b>1990</b> , 87, 2087-91                  | 118      |
| 1175 | Studies on the maintenance and expression of cloned DNA fragments in the nuclear genome of the green alga Chlamydomonas Reinhardtii. <b>1990</b> , 78, 254-260 | 29       |
| 1174 | Gene transfer to plants: assessment and perspectives. <b>1990</b> , 79, 125-134  | 105      |
| 1173 | Expression of engineered wheat dwarf virus in seed-derived embryos. <b>1990</b> , 79, 158-162  | 13       |
| 1172 | Potential of in vitro pollen maturation for gene transfer. <b>1990</b> , 79, 194-196   | 24       |
| 1171 | Biolistic plant transformation. <b>1990</b> , 79, 206-209  | 177      |
| 1170 | Escape of DNA from mitochondria to the nucleus in Saccharomyces cerevisiae. <i>Nature</i> , <b>1990</b> , 346, 376-9   | 50.4 232 |
| 1169 | Techniques in plant molecular biology--progress and problems. <b>1990</b> , 192, 563-76  | 30       |
| 1168 | Soybean genetic engineering - commercial production of transgenic plants. <b>1990</b> , 8, 145-151   | 118      |
| 1167 | Transgenic fish. <b>1990</b> , 8, 209-15   | 70       |
| 1166 | Gene delivery into cultured plant cells by DNA-coated gold particles accelerated by a pneumatic particle gun. <b>1990</b> , 80, 813-6                          | 68       |
| 1165 | Bialaphos selection of stable transformants from maize cell culture. <b>1990</b> , 79, 625-31  | 136      |

|      |  |       |
|------|--|-------|
| 1164 | Stable transformation of papaya via microprojectile bombardment. <b>1990</b> , 9, 189-94   | 111   |
| 1163 | Direct gene transfer to plant protoplasts by mild sonication. <b>1990</b> , 9, 207-10  | 51    |
| 1162 | Silicon carbide fiber-mediated DNA delivery into plant cells. <b>1990</b> , 9, 415-8   | 73    |
| 1161 | Transgenic tobacco plants and their progeny derived by microprojectile bombardment of tobacco leaves. <b>1990</b> , 14, 261-8  | 83    |
| 1160 | Optimization of delivery of foreign DNA into higher-plant chloroplasts. <b>1990</b> , 15, 809-19   | 115   |
| 1159 | Biolistic nuclear transformation of <i>Saccharomyces cerevisiae</i> and other fungi. <b>1990</b> , 17, 97-103  | 151   |
| 1158 | Transformation of <i>Trichoderma harzianum</i> by high-voltage electric pulse. <b>1990</b> , 17, 169-174   | 64    |
| 1157 | Stable transformation of cultured tobacco cells by DNA-coated gold particles accelerated by gas-pressure-driven particle gun. <b>1990</b> , 33, 560  | 19    |
| 1156 | Expression of a foreign gene in electroporated pollen grains of tobacco. <b>1990</b> , 3, 147  | 23    |
| 1155 | Extrachromosomal homologous recombination and gene targeting in plant cells after <i>Agrobacterium</i> mediated transformation.. <b>1990</b> , 9, 3077-3084  | 155   |
| 1154 | The <i>En/Spm</i> transposable element of <i>Zea mays</i> contains splice sites at the termini generating a novel intron from a <i>dSpm</i> element in the <i>A2</i> gene.. <b>1990</b> , 9, 3051-3057 | 122   |
| 1153 | <i>cis</i> -Acting Elements Involved in Photoregulation of an Oat Phytochrome Promoter in Rice. <b>1990</b> , 2, 1081  | 1     |
| 1152 | Methods of gene transfer and analysis in higher plants. <i>Methods in Molecular Biology</i> , <b>1990</b> , 6, 341-71  | 1.4 3 |
| 1151 | {BLR 1096} Regulatory - Upjohn - Genetically Engineered Plants - Herbicide Tolerance - APHIS. <b>1990</b> , 9, 347-468   |       |
| 1150 | Direct Gene Transfer to Protoplasts. <b>1990</b> , 17, 291   | 8     |
| 1149 | Transient Expression of Exogenous DNA in Intact, Viable Wheat Embryos Following Particle Bombardment. <b>1990</b> , 41, 1161-1165  | 40    |
| 1148 | <i>cis</i> -acting elements involved in photoregulation of an oat phytochrome promoter in rice. <b>1990</b> , 2, 1081-9  | 65    |
| 1147 | Multiple protein factors bind to a rice glutelin promoter region. <b>1990</b> , 18, 6845-52  | 43    |

|      |  |     |
|------|--|-----|
| 1146 | Genetic analysis of RNA splicing in yeast mitochondria. <b>1990</b> , 181, 539-58  | 12  |
| 1145 | Studies on the maintenance and expression of cloned DNA fragments in the nuclear genome of the green alga <i>Chlamydomonas reinhardtii</i> . <b>1990</b> , 78, 254-260                                 | 28  |
| 1144 | Transient gene expression in maize, rice, and wheat cells using an airgun apparatus. <b>1990</b> , 92, 334-9   | 99  |
| 1143 | Rescue of a paralyzed-flagella mutant of <i>Chlamydomonas</i> by transformation. <b>1990</b> , 87, 5739-43   | 71  |
| 1142 | Gene Manipulation in Plant Improvement II. <b>1990</b> ,   | 1   |
| 1141 | Clovers ( <i>Trifolium</i> spp.). <b>1990</b> , 242-287  | 4   |
| 1140 | Transformation of Maize Cells and Regeneration of Fertile Transgenic Plants. <b>1990</b> , 2, 603  | 103 |
| 1139 | Transient Gene Expression in Intact and Organized Rice Tissues. <b>1990</b> , 2, 591   | 20  |
| 1138 | Wheat dwarf virus <i>Ac/Ds</i> vectors: expression and excision of transposable elements introduced into various cereals by a viral replicon. <b>1990</b> , 87, 7752-6                                 | 63  |
| 1137 | Advances in Research on <i>Caenorhabditis elegans</i> : Application to Plant Parasitic Nematodes. <b>1990</b> , 28, 247-69   | 21  |
| 1136 | A regulatory gene as a novel visible marker for maize transformation. <b>1990</b> , 247, 449-50  | 229 |
| 1135 | Plant Cell and Tissue Culture. <b>1990</b> ,   | 2   |
| 1134 | Transient Gene Expression in Intact and Organized Rice Tissues. <b>1990</b> , 2, 591-602   | 154 |
| 1133 | Organelle transformation: shoot first, ask questions later. <b>1990</b> , 15, 465-8  | 46  |
| 1132 | Ecological Risks of Genetic Engineering of Crop Plants. <b>1990</b> , 40, 434-437  | 45  |
| 1131 | Applications of the Particle Gun in Plant Biology. <b>1990</b> , 56-66   | 6   |
| 1130 | Introduction of resistance to kanamycin into the protoplasts from a pantothenate-requiring auxotrophic cell line of <i>Datura innoxia</i> P. Mill. via direct gene transfer. <b>1990</b> , 70, 105-114 | 5   |
| 1129 | Applications of Somatic Embryogenesis and Embryo Cloning. <b>1990</b> , 67-101   | 47  |

|      |  |     |
|------|--|-----|
| 1128 | Physical methods for the transformation of plant cells. <b>1991</b> , 9, 1-11  | 15  |
| 1127 | Evidence That More than 90% of beta-Glucuronidase-Expressing Cells after Particle Bombardment Directly Receive the Foreign Gene in their Nucleus. <b>1991</b> , 97, 829-31                   | 62  |
| 1126 | The delivery of foreign genes into fertilized fish eggs using high-velocity microprojectiles. <b>1991</b> , 287, 118-20  | 40  |
| 1125 | High-velocity mechanical DNA transfer of the chloramphenicolacetyl transferase gene into rodent liver, kidney and mammary gland cells in organ explants and in vivo. <b>1991</b> , 280, 94-6 | 25  |
| 1124 | Strategies for expression of foreign genes in plants. Potential use of engineered viruses. <b>1991</b> , 281, 1-8  | 14  |
| 1123 | Electroporation-mediated and silicon carbide fiber-mediated DNA delivery in <i>Agrostis alba</i> L. (Redtop). <b>1991</b> , 79, 247-252  | 38  |
| 1122 | Transient transformation of maize tissues by microparticle bombardment. <b>1991</b> , 75, 237-243  | 34  |
| 1121 | Biotechnology in Rice Improvement. <b>1991</b> , 3-18  | 2   |
| 1120 | Molecular genetic analysis of the rice blast fungus, <i>magnaporthe grisea</i> . <b>1991</b> , 29, 443-67  | 292 |
| 1119 | Analysis and manipulation of yeast mitochondrial genes. <b>1991</b> , 194, 149-65  | 216 |
| 1118 | Genetic engineering of wood. <b>1991</b> , 43, 301-316   | 46  |
| 1117 | Gene Transfer Into Intact Sugarcane Cells Using Microprojectile Bombardment. <b>1991</b> , 18, 471   | 43  |
| 1116 | Development and Optimisation of Microprojectile Systems for Plant Genetic Transformation. <b>1991</b> , 18, 453  | 34  |
| 1115 | Transgenic fish for aquaculture. <b>1991</b> , 13, 331-70  | 49  |
| 1114 | Genetic engineering and transformation of monocots for crop improvement. <b>1991</b> , 115-121   |     |
| 1113 | Chloroplast ribosomal intron of <i>Chlamydomonas reinhardtii</i> : in vitro self-splicing, DNA endonuclease activity and in vivo mobility.. <b>1991</b> , 10, 3495-3501                      | 45  |
| 1112 | Applications of Molecular Biology in Weed Science. <b>1991</b> , 39, 482-488   | 3   |
| 1111 | Engineering the chloroplast genome: techniques and capabilities for chloroplast transformation in <i>Chlamydomonas reinhardtii</i> . <b>1991</b> , 88, 1721-5                                | 177 |



|      |   |     |
|------|---|-----|
| 1110 | Plant tissue culture and molecular biology as tools in understanding plant development and in plant improvement. <b>1991</b> , 2, 158-163   | 12  |
| 1109 | Tissue culture and the use of transgenic plants to study plant development. <b>1991</b> , 27, 1-10  |     |
| 1108 | Biolistic transformation of animal tissue. <b>1991</b> , 27, 11-14  | 25  |
| 1107 | Transformation of maize using microprojectile bombardment: An update and perspective. <b>1991</b> , 27, 21-27   | 12  |
| 1106 | Advances in plant biotechnology and their implication for forestry research. <b>1991</b> , 27, 99-103   | 1   |
| 1105 | Applications of bacterial magnets. <b>1991</b> , 9, 91-5  | 64  |
| 1104 | PEG-mediated plastid transformation: a new system for transient gene expression assays in chloroplasts. <b>1991</b> , 82, 717-22  | 39  |
| 1103 | Transient expression of $\beta$ -glucuronidase in different cellular compartments following biolistic delivery of foreign DNA into wheat leaves and calli. <b>1991</b> , 9, 615-9   | 46  |
| 1102 | Stable transformation of sorghum cell cultures after bombardment with DNA-coated microprojectiles. <b>1991</b> , 10, 260-4  | 52  |
| 1101 | Transient expression from microprojectile-mediated DNA transfer in pinus taeda. <b>1991</b> , 10, 187-90  | 35  |
| 1100 | Primary structure of a novel barley gene differentially expressed in immature aleurone layers. <b>1991</b> , 228, 9-16  | 35  |
| 1099 | Genetic improvement of legumes using somatic cell and molecular techniques. <b>1991</b> , 55, 157-169   | 16  |
| 1098 | Expression of inducible angiosperm promoters in a gymnosperm, <i>Picea glauca</i> (white spruce). <b>1991</b> , 17, 19-27   | 50  |
| 1097 | Transient expression of beta-glucuronidase in <i>Arabidopsis thaliana</i> leaves and roots and <i>Brassica napus</i> stems using a pneumatic particle gun. <b>1991</b> , 17, 259-63 | 35  |
| 1096 | Transgenic <i>Arabidopsis thaliana</i> plants obtained by particle-bombardment-mediated transformation. <b>1991</b> , 36, 228-230   | 13  |
| 1095 | Transformation of the developing barley endosperm by particle bombardment. <b>1991</b> , 185, 330-6   | 34  |
| 1094 | Stable transformation of barley via PEG-induced direct DNA uptake into protoplasts. <b>1991</b> , 81, 437-44  | 117 |
| 1093 | A 3' stem/loop structure of the <i>Chlamydomonas</i> chloroplast <i>atpB</i> gene regulates mRNA accumulation in vivo. <b>1991</b> , 3, 285-97                                      | 172 |

|      |  |     |
|------|--|-----|
| 1092 | Splicing-defective mutants of the yeast mitochondrial COXI gene can be corrected by transformation with a hybrid maturase gene. <b>1991</b> , 88, 5592-6   | 17  |
| 1091 | Introduction of foreign genes into tissues of living mice by DNA-coated microprojectiles. <b>1991</b> , 88, 2726-30  | 351 |
| 1090 | Efficient transformation and regeneration of rice small cell groups. <b>1991</b> , 88, 6389-93   | 19  |
| 1089 | 9 Heterologous Protein Production by Filamentous Fungi. <b>1991</b> , 9, 327-367   | 10  |
| 1088 | Site-specific mutagenesis of the D1 subunit of photosystem II in wild-type Chlamydomonas. <b>1991</b> , 3, 169-74  | 78  |
| 1087 | Site-Specific Mutagenesis of the D1 Subunit of Photosystem II in Wild-Type Chlamydomonas. <b>1991</b> , 3, 169   | 6   |
| 1086 | A 3' Stem/Loop Structure of the Chlamydomonas Chloroplast atpB Gene Regulates mRNA Accumulation in vivo. <b>1991</b> , 3, 285  | 75  |
| 1085 | Strategies for gene therapy in the liver. <b>1992</b> , 12, 332-9  | 15  |
| 1084 | A Gibberellin Response Complex in Cereal $\alpha$ -Amylase Gene Promoters. <b>1992</b> , 4, 203  | 6   |
| 1083 | A Rice cab Gene Promoter Contains Separate cis-Acting Elements That Regulate Expression in Dicot and Monocot Plants. <b>1992</b> , 4, 971  |     |
| 1082 | Agrobacterium and plant genetic engineering. <b>1992</b> , 15-38   | 5   |
| 1081 | Physical trauma and tungsten toxicity reduce the efficiency of biolistic transformation. <b>1992</b> , 98, 1050-6  | 118 |
| 1080 | Application of in Vitro Pollination and Fertilization Techniques for Breeding and Genetic Manipulation of Lilium. <b>1992</b> , 127-134  | 1   |
| 1079 | A rice cab gene promoter contains separate cis-acting elements that regulate expression in dicot and monocot plants. <b>1992</b> , 4, 971-81   | 55  |
| 1078 | Effect of promoter sequence on transient expression of the $\beta$ -glucuronidase gene in embryogenic calli of Larix laricina and Picea mariana following microprojection. <b>1992</b> , 70, 175-180 | 23  |
| 1077 | Gene transfer into mammalian somatic cells in vivo. <b>1992</b> , 12, 335-56   | 57  |
| 1076 | A gibberellin response complex in cereal alpha-amylase gene promoters. <b>1992</b> , 4, 203-11   | 173 |
| 1075 | Improved Encapsulation of DNA in pH-Sensitive Liposomes for Transfection. <b>1992</b> , 2, 125-139   | 26  |

|      |   |     |
|------|---|-----|
| 1074 | New Genes for Old Trees. <b>1992</b> , 43, 1181-1190  | 8   |
| 1073 | Nuclear Localization Signal(s) Required for Nuclear Targeting of the Maize Regulatory Protein Opaque-2. <b>1992</b> , 4, 1213   | 23  |
| 1072 | Distant Hybridization of Crop Plants. <b>1992</b> ,   | 6   |
| 1071 | Recent Advances in Biotechnology. <b>1992</b> ,   | 1   |
| 1070 | Pollen Electrotransformation for Gene Transfer in Plants. <b>1992</b> , 227-247   |     |
| 1069 | Fertile, Transgenic Oat Plants. <b>1992</b> , 10, 1589-1594   | 110 |
| 1068 | Interaction of DNA with cationic liposomes: ability of transfecting lentil protoplasts. <b>1992</b> , 186, 1417-22  | 28  |
| 1067 | Transformation of cucumber tissues by microprojectile bombardment: identification of plants containing functional and non-functional transferred genes. <b>1992</b> , 118, 255-60 | 23  |
| 1066 | Plant food protein engineering. <b>1992</b> , 36, 89-208  | 88  |
| 1065 | Gene transfer strategies in plants. <b>1992</b> , 10, 393-412   | 15  |
| 1064 | Genetic manipulation of crop plants. <b>1992</b> , 26, 1-28   | 31  |
| 1063 | The use of plant cell cultures for studying virus resistance, and enhancing the production of virus-resistant and virus-free plants. <b>1992</b> , 22, 171-200                    | 4   |
| 1062 | Reduction of nuclease activity released from germinating pollen under conditions used for pollen electrotransformation. <b>1992</b> , 84, 11-16                                   | 14  |
| 1061 | Transient expression from cab-m1 and rbcS-m3 promoter sequences is different in mesophyll and bundle sheath cells in maize leaves. <b>1992</b> , 89, 3654-8                       | 54  |
| 1060 | Silicon carbide fiber-mediated stable transformation of plant cells. <b>1992</b> , 84, 560-6  | 68  |
| 1059 | Introduction and differential use of various promoters in pollen grains of <i>Nicotiana glutinosa</i> and <i>Lilium longiflorum</i> . <b>1992</b> , 11, 20-4                      | 50  |
| 1058 | Transformation of <i>Dendrobium</i> orchid using particle bombardment of protocorms. <b>1992</b> , 11, 484-8  | 52  |
| 1057 | Development of the particle inflow gun for DNA delivery to plant cells. <b>1992</b> , 11, 323-8   | 366 |

|      |  |     |
|------|--|-----|
| 1056 | Expression of the GUS-gene in the monocot tulip after introduction by particle bombardment and Agrobacterium. <b>1992</b> , 11, 76-80  | 36  |
| 1055 | Improvement of plant regeneration and GUS expression in scutellar wheat calli by optimization of culture conditions and DNA-microprojectile delivery procedures. <b>1992</b> , 235, 279-84 | 65  |
| 1054 | The replication origin of proplastid DNA in cultured cells of tobacco. <b>1992</b> , 232, 191-8  | 27  |
| 1053 | Particle bombardment-mediated transient expression of a Brazil nut methionine-rich albumin in bean ( <i>Phaseolus vulgaris</i> L.). <b>1992</b> , 20, 357-9                                | 37  |
| 1052 | Agrobacterium and plant genetic engineering. <b>1992</b> , 19, 15-38   | 201 |
| 1051 | Plant transformation: a simple particle bombardment device based on flowing helium. <b>1992</b> , 18, 835-9  | 93  |
| 1050 | The carboxy-terminal extension of the D1-precursor protein is dispensable for a functional photosystem II complex in <i>Chlamydomonas reinhardtii</i> . <b>1992</b> , 19, 251-6            | 32  |
| 1049 | Segregation of transgenes in maize. <b>1992</b> , 18, 201-10   | 100 |
| 1048 | Genetic transformation of Norway spruce ( <i>Picea abies</i> (L.) Karst) using somatic embryo explants by microprojectile bombardment. <b>1992</b> , 19, 925-35                            | 49  |
| 1047 | Structural and functional analysis of the Bz2 locus of <i>Zea mays</i> : characterization of overlapping transcripts. <b>1992</b> , 233, 269-77  | 17  |
| 1046 | Genetic transformation of crop plants using microprojectile bombardment. <b>1992</b> , 2, 275-281  | 150 |
| 1045 | Major improvements in biolistic transformation of suspension-cultured tobacco cells. <b>1992</b> , 28, 97-105  | 43  |
| 1044 | Transformation of microbes, plants and animals by particle bombardment. <b>1992</b> , 10, 286-91   | 109 |
| 1043 | Genes for jeans: biotechnological advances in cotton. <b>1992</b> , 10, 165-170  | 27  |
| 1042 | Comparison of different techniques for gene transfer into mature and immature tobacco pollen. <b>1992</b> , 1, 71-78   | 38  |
| 1041 | A comparison of methods for delivering DNA to wheat: the application of wheat dwarf virus DNA to seeds with exposed apical meristems. <b>1992</b> , 1, 93-100                              | 16  |
| 1040 | Evaluation of peanut ( <i>Arachis hypogaea</i> L.) leaflets from mature zygotic embryos as recipient tissue for biolistic gene transfer. <b>1992</b> , 1, 275-284                          | 25  |
| 1039 | Biological ballistics-no longer a shot in the dark. <b>1992</b> , 1, 107-113   | 12  |

|      |   |     |
|------|---|-----|
| 1038 | Concepts and strategies for human gene therapy. <b>1992</b> , 208, 211-25   | 65  |
| 1037 | Replication footprint analysis of cucumber mosaic virus electroporated into tomato protoplasts. <b>1992</b> , 200, 310-4  | 6   |
| 1036 | The use of nanoparticles as coatings. <b>1993</b> , 163, 157-161  | 17  |
| 1035 | Particle bombardment: a universal approach for gene transfer to cells and tissues. <b>1993</b> , 4, 583-90  | 50  |
| 1034 | Particle gun mediated transformation. <b>1993</b> , 4, 135-141  | 37  |
| 1033 | Factors affecting transient gene expression in protoplasts isolated from very slowly growing embryogenic callus cultures of wheat ( <i>Triticum aestivum</i> L.). <b>1993</b> , 86, 721-30      | 9   |
| 1032 | Transformation of white spruce ( <i>Picea glauca</i> ) somatic embryos by microprojectile bombardment. <b>1993</b> , 13, 17-23  | 34  |
| 1031 | Stable transformation of barley tissue culture by particle bombardment. <b>1993</b> , 12, 435-40  | 37  |
| 1030 | Stable transformation of the food yam <i>Dioscorea alata</i> L. by particle bombardment. <b>1993</b> , 12, 468-73   | 13  |
| 1029 | Factors influencing transient gene expression in bean ( <i>Phaseolus vulgaris</i> L.) using an electrical particle acceleration device. <b>1993</b> , 12, 483-90                                | 35  |
| 1028 | The effect of different promoter-sequences on transient expression of gus reporter gene in cultured barley ( <i>Hordeum vulgare</i> L.) cells. <b>1993</b> , 12, 506-9                          | 34  |
| 1027 | An improved rice transformation system using the biolistic method. <b>1993</b> , 12, 250-5  | 188 |
| 1026 | Further characterization of the respiratory deficient dum-1 mutation of <i>Chlamydomonas reinhardtii</i> and its use as a recipient for mitochondrial transformation. <b>1993</b> , 236, 235-44 | 95  |
| 1025 | Analysis of single protoplasts and regenerated plants by PCR and RAPD technology. <b>1993</b> , 237, 311-7  | 77  |
| 1024 | Characterization of an ethylene-responsive glutathione S-transferase gene cluster in carnation. <b>1993</b> , 22, 43-58   | 71  |
| 1023 | Transformation of four pathogenic <i>Phytophthora</i> spp by microprojectile bombardment on intact mycelia. <b>1993</b> , 23, 42-6  | 22  |
| 1022 | Ti to Tomato, Tomato to Market. <b>1993</b> , 11, S22-S26   | 8   |
| 1021 | Transformation of Elite Cotton Cultivars via Particle Bombardment of Meristems. <b>1993</b> , 11, 596-598   | 78  |

|      |  |     |     |
|------|--|-----|-----|
| 1020 | Agrobacterium tumefaciens-mediated expression of gusA in maize tissues. <b>1993</b> , 2, 252-265   |     | 36  |
| 1019 | Transient expression of GUS and anthocyanin constructs in intact maize immature embryos following electroporation. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1993</b> , 33, 195-201 | 2.7 | 43  |
| 1018 | Direct DNA transfer using electric discharge particle acceleration (ACCELL technology). <i>Plant Cell, Tissue and Organ Culture</i> , <b>1993</b> , 33, 227-236                            | 2.7 | 69  |
| 1017 | Development of an airgun device for particle bombardment. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1993</b> , 33, 247-250  | 2.7 | 17  |
| 1016 | Development of a microtargeting device for particle bombardment of plant meristems. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1993</b> , 33, 251-257                                | 2.7 | 26  |
| 1015 | Transfer of foreign DNA into the cells of developing mouse embryos by microprojectile bombardment. <b>1993</b> , 315, 29-32  |     | 9   |
| 1014 | Biolistic transformation of <i>Trichoderma harzianum</i> and <i>Gliocladium virens</i> using plasmid and genomic DNA. <b>1993</b> , 24, 349-56   |     | 83  |
| 1013 | Chloroplast transformation in <i>Chlamydomonas</i> . <b>1993</b> , 217, 510-36   |     | 113 |
| 1012 | Molecular approaches to the manipulation of carbon allocation in plants. <b>1993</b> , 71, 765-778   |     | 13  |
| 1011 | Cell type-preferred expression of maize cab-m1: repression in bundle sheath cells and enhancement in mesophyll cells. <b>1993</b> , 90, 4057-61  |     | 22  |
| 1010 | The introduction and expression of transgenes in plants. <b>1993</b> , 55, 5-36  |     | 26  |
| 1009 | Temperate vegetable crops. <b>1993</b> , 55, 37-63   |     | 5   |
| 1008 | Analysis of stable events of transformation in wheat via PEG-mediated DNA uptake into protoplasts. <b>1993</b> , 93, 85-94   |     | 10  |
| 1007 | Evidence of meiosis-specific regulation of gene expression in lily microsporocytes. <b>1993</b> , 89, 31-41  |     | 3   |
| 1006 | Optimizing the biolistic process for different biological applications. <b>1993</b> , 217, 483-509   |     | 440 |
| 1005 | Agrobacterium gene transfer: progress on a "poor man's vector" for maize. <b>1993</b> , 90, 3119-20  |     | 22  |
| 1004 | Microprojectile-mediated DNA delivery to the Salicaceae family. <b>1993</b> , 71, 1458-1466  |     | 15  |
| 1003 | Gene Transfer to Lentil Protoplasts by Lipofection and Electroporation. <b>1993</b> , 3, 707-716   |     | 1   |

|      |  |     |
|------|--|-----|
| 1002 | Genetic Engineering in Pea Crop Improvement. <b>1993</b> , 43, 65-73   | 1   |
| 1001 | Transformation of Sugarcane. <b>1993</b> , 348-360   | 7   |
| 1000 | Application of electroporation in recombinant DNA technology. <b>1993</b> , 217, 461-78  | 34  |
| 999  | Analysis of rice genes in transgenic plants. <b>1993</b> , 45, 1-26  | 2   |
| 998  | Nitrilase in biosynthesis of the plant hormone indole-3-acetic acid from indole-3-acetonitrile: cloning of the Alcaligenes gene and site-directed mutagenesis of cysteine residues. <b>1993</b> , 90, 247-51 | 144 |
| 997  | Chimeric retinoic acid/thyroid hormone receptors implicate RAR-alpha 1 as mediating growth inhibition by retinoic acid.. <b>1993</b> , 12, 3459-3466   | 36  |
| 996  | Soybean. <b>1993</b> , 427-463   | 11  |
| 995  | Expression of gus in somatic embryo cultures of black spruce after microprojectile bombardment. <b>1994</b> , 45, 491-495  | 19  |
| 994  | Correct in vivo RNA splicing of a mitochondrial intron in algal chloroplasts. <b>1994</b> , 22, 2869-75  | 21  |
| 993  | Recent Developments in the Genetic Engineering of Barley. <b>1994</b> , 14, 287-310  | 5   |
| 992  | Getting DNA into a Cell: A Survey of Transformation Methods. <b>1994</b> , 56, 14-20   | 2   |
| 991  | Belgian Association of Plant Physiology Soci t  De Physiologie V g tale De La Communaut  Francophone De Belgique (SPVF). <b>1994</b> , 102, PP1-PP11   | 1   |
| 990  | Induction of alloreactive cytotoxic T lymphocytes by intra-splenic immunization with allogeneic class I Major Histocompatibility Complex DNA and DC-chol cationic liposomes. <b>1994</b> , 4, 1075-1090      | 3   |
| 989  | A gas-driven gene gun for microprojectile methods of genetic engineering. <b>1994</b> , 5, 267-274   | 3   |
| 988  | Transcriptional activities of a winged bean Kunitz chymotrypsin inhibitor gene promoter in stable and transient expression systems. <b>1994</b> , 58, 2104-6   | 6   |
| 987  | Effects of Amino Acid Medium on Cell Aggregation in Suspension-cultured Rice Cells. <b>1994</b> , 58, 256-260  | 6   |
| 986  | Modification of Flower Colour using Genetic Engineering. <b>1994</b> , 12, 63-88   | 14  |
| 985  | Plant Promoters and Transcription Factors. <b>1994</b> ,   |     |

|     |  |        |
|-----|--|--------|
| 984 | Genetics of ectomycorrhizal fungi: progress and prospects. <b>1994</b> , 159, 159-170  | 17     |
| 983 | A combined use of microprojectile bombardment and DNA imbibition enhances transformation frequency of canola ( <i>Brassica napus</i> L.). <b>1994</b> , 88, 187-92         | 46     |
| 982 | A biolistic approach for the transfer and expression of a <i>gusA</i> . reporter gene in embryogenic cultures of <i>Pinus radiata</i> . <b>1994</b> , 14, 69-74            | 39     |
| 981 | Genotypic and developmental regulation of transient expression of a reporter gene in soybean zygotic cotyledons. <b>1994</b> , 13, 556-60                                  | 9      |
| 980 | Biolistic transformation of tobacco and maize suspension cells using bacterial cells as microprojectiles. <b>1994</b> , 13, 212-7  | 21     |
| 979 | Molecular analysis of C1 alleles in <i>Zea mays</i> defines regions involved in the expression of this regulatory gene. <b>1994</b> , 242, 40-8                            | 23     |
| 978 | A single gene (Eu4) encodes the tissue-ubiquitous urease of soybean. <b>1994</b> , 242, 404-14   | 28     |
| 977 | Fertile transgenic barley to particle bombardment of immature embryos. <b>1994</b> , 24, 317-25  | 110    |
| 976 | Stable transformation and long-term expression of the <i>gusA</i> reporter gene in callus lines of perennial ryegrass ( <i>Lolium perenne</i> L.). <b>1994</b> , 24, 401-5 | 36     |
| 975 | Production of fertile transgenic maize by electroporation of suspension culture cells. <b>1994</b> , 24, 51-61   | 48     |
| 974 | Expression of engineered antibodies in plant cells. <b>1994</b> , 26, 1023-30  | 55     |
| 973 | Development of a simple particle bombardment device for gene transfer into plant cells. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1994</b> , 37, 47-53              | 2.7 23 |
| 972 | Molecular analysis of protein domain function encoded by the myb-homologous maize genes C1, Zm 1 and Zm 38. <b>1994</b> , 6, 21-30   | 41     |
| 971 | Genetic Engineering Approaches for Enhanced Production of Biodiesel Fuel from Microalgae. <b>1994</b> , 255-270  | 45     |
| 970 | Bombardment-mediated transformation of plant cells. <b>1994</b> , 107, 117-123   | 16     |
| 969 | Bombyx gene promoter analysis in transplanted silk gland transformed by particle delivery system. <b>1994</b> , 3, 261-5   | 29     |
| 968 | Generation of allo-reactive cytotoxic T lymphocytes by particle bombardment-mediated gene transfer. <b>1994</b> , 171, 147-55  | 31     |
| 967 | Neuronal transfection in brain slices using particle-mediated gene transfer. <b>1994</b> , 13, 1263-8  | 216    |



|     |   |     |
|-----|---|-----|
| 966 | Studies of a gibberellin-dependent DNA-binding protein related to the expression of a rice $\beta$ -amylase gene. <b>1994</b> , 99, 75-88   | 11  |
| 965 | Humoral and cellular immunity to an encoded protein induced by direct DNA injection. <b>1994</b> , 5, 1335-9  | 50  |
| 964 | Plant Cell and Tissue Culture. <b>1994</b> ,  | 20  |
| 963 | Nucleic acid transfer through cell membranes: towards the underlying mechanisms. <b>1994</b> , 62, 119-52   | 14  |
| 962 | Fertile transgenic Indica rice plants obtained by electroporation of the seed embryo cells. <b>1994</b> , 13, 237-42  | 38  |
| 961 | Transcriptional photoregulation of cell-type-preferred expression of maize rbcS-m3: 3' and 5' sequences are involved. <b>1994</b> , 91, 8577-81   | 57  |
| 960 | An ethylene-responsive enhancer element is involved in the senescence-related expression of the carnation glutathione-S-transferase (GST1) gene. <b>1994</b> , 91, 8925-9   | 209 |
| 959 | In vivo transfer and expression of a human epidermal growth factor gene accelerates wound repair. <b>1994</b> , 91, 12188-92  | 200 |
| 958 | Red/far-red and blue light-responsive regions of maize rbcS-m3 are active in bundle sheath and mesophyll cells, respectively. <b>1995</b> , 92, 11504-8   | 26  |
| 957 | Progress in Genetic Engineering of Plants. <b>1995</b> , 3, 309-325   |     |
| 956 | Gentechnologie bei Pflanzen. <b>1995</b> , 25, 230-238  | 3   |
| 955 | The impact of selection parameters on the phenotype and genotype of transgenic rice callus and plants. <b>1995</b> , 4, 44-51   | 33  |
| 954 | Application of bacterial magnetic particles as novel DNA carriers for ballistic transformation of a marine cyanobacterium. <b>1995</b> , 9, 355-360   | 31  |
| 953 | Structure of a functional geranylgeranyl pyrophosphate synthase gene from <i>Capsicum annuum</i> . <b>1995</b> , 27, 425-8  | 24  |
| 952 | Identification of enhancer and silencer regions involved in salt-responsive expression of Crassulacean acid metabolism (CAM) genes in the facultative halophyte <i>Mesembryanthemum crystallinum</i> . <b>1995</b> , 28, 205-18 | 39  |
| 951 | Successful expression in pollen of various plant species of in vitro synthesized mRNA introduced by particle bombardment. <b>1995</b> , 28, 337-41  | 11  |
| 950 | Strategies for variety-independent genetic transformation of important cereals, legumes and woody species utilizing particle bombardment. <b>1995</b> , 85, 13-27   | 103 |
| 949 | Transgenic barley by particle bombardment. Inheritance of the transferred gene and characteristics of transgenic barley plants. <b>1995</b> , 85, 81-88   | 14  |

|     |   |     |     |
|-----|---|-----|-----|
| 948 | Advances in alternative DNA delivery techniques. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1995</b> , 40, 1-15   | 2.7 | 74  |
| 947 | Somatic embryogenesis for agricultural improvement. <b>1995</b> , 11, 416-25  |     | 53  |
| 946 | Genetic engineering in marine cyanobacteria. <b>1995</b> , 7, 77-84   |     | 21  |
| 945 | Plant transformation by particle bombardment of embryogenic pollen. <b>1995</b> , 14, 273-8   |     | 43  |
| 944 | Stable transformation of tomato cell cultures after bombardment with plasmid and YAC DNA. <b>1995</b> , 14, 299-304   |     | 29  |
| 943 | Production of fertile transgenic barley ( <i>Hordeum vulgare</i> L.) plant using the hygromycin-resistance marker. <b>1995</b> , 14, 329-34                                 |     | 43  |
| 942 | DNA uptake by imbibition and expression of a foreign gene in rice. <b>1995</b> , 94, 453-459  |     | 6   |
| 941 | Peaceful bombardment in the land of unrest. <b>1995</b> , 9, 226-7  |     | 1   |
| 940 | Gene gun and other non-viral approaches for cancer gene therapy. <b>1995</b> , 1, 481-3   |     | 153 |
| 939 | Analysis of gene regulation in growing pollen tubes of angiosperm and gymnosperm species using microprojectile bombardment. <b>1995</b> , 93, 445-450                       |     | 7   |
| 938 | Isolated microspore culture of wheat ( <i>Triticum aestivum</i> L.) in a defined media I. Effects of pretreatment, isolation methods, and hormones. <b>1995</b> , 31, 79-83 |     | 30  |
| 937 | Gene therapy in surgical oncology. <b>1995</b> , 2, 179-88  |     | 1   |
| 936 | Factors affecting the genetic engineering of plants by microprojectile bombardment. <b>1995</b> , 13, 631-51  |     | 42  |
| 935 | Plant biotechnology for crop improvement. <b>1995</b> , 13, 673-93  |     | 10  |
| 934 | A particle accelerating device for delivering DNA material into plant cells. <b>1995</b> , 13, 67-74  |     | 2   |
| 933 | Introduction of impermeable molecules into pollen grains by electroporation. <b>1995</b> , 187, 132-137   |     | 7   |
| 932 | Optimizing the Biolistic Process for Different Biological Applications. <b>1995</b> , 485-511   |     | 3   |
| 931 | Gene Transfer to Plants. <b>1995</b> ,  |     | 22  |

930 Antibody Expression in Plants. **1995**, 56-69

929 Analysis of gene regulation in growing pollen tubes of angiosperm and gymnosperm species using microprojectile bombardment. **1995**, 93, 445-450

8

928 DNA uptake by imbibition and expression of a foreign gene in rice. **1995**, 94, 453-459

10

927 Particle bombardment drastically increases the infectivity of cloned DNA of zucchini yellow mosaic potyvirus. **1995**, 76 ( Pt 12), 3223-7

53

926 Pollen Specificity Elements Reside in 30 bp of the Proximal Promoters of Two Pollen-Expressed Genes. **1995**, 7, 373

925 Confocal epipolarization microscopy of gold probes in plant cells and protoplasts. **1995**, 49, 109-21

1

924 Genetic engineering in plants. **1995**, 1, 523-42

9

923 Chapter 27 Particle Bombardment. **1995**, 50, 375-382

21

922 Plasmolysis facilitates the accumulation of protein and DNA into extra-plasmalemma spaces of intact plant cells. **1995**, 104, 201-214

6

921 Differential long-term expression and methylation of the hygromycin phosphotransferase (hph) and  $\beta$ glucuronidase (GUS) genes in transgenic pearl millet (*Pennisetum glaucum*) callus. **1995**, 108, 51-62

53

920 Transient expression of a lysine-rich vicilin gene of *Vicia faba* in barley endosperm detected by immunological tissue printing after particle bombardment. **1995**, 15, 125-8

4

919 Injection of DNA into plant and animal tissues with micromechanical piercing structures.

12

918 Transgenic fish in aquaculture and developmental biology. **1995**, 30, 177-214

25

917 [Expression of recombinant human hemoglobin in plants]. **1995**, 2, 441-7

6

916 Transgenic Tall Fescue (*Festuca arundinacea*) and Red Fescue (*F. rubra*) Plants from Microprojectile Bombardment of Embryogenic Suspension Cells. **1995**, 145, 693-701

72

915 Factors affecting gene delivery by particle bombardment of *Dendrobium* orchids. **1995**, 31, 131-136

15

914 Construction and rapid testing of synthetic and modified toxin gene sequences CryIA (b&c) by expression in maize endosperm culture. **1996**, 15, 677-81

63

913 Electric discharge particle acceleration (Accell<sup>®</sup>) technology for the creation of transgenic plants with altered characteristics. **1996**, 45, 143-151

4

|     |   |        |
|-----|---|--------|
| 912 | Laser microbeams for the manipulation of plant cells and subcellular structures. <b>1996</b> , 113, 1-11  | 21     |
| 911 | Effect of microprojectile bombardment parameters and osmotic treatment on particle penetration and tissue damage in transiently transformed cultured immature maize ( <i>Zea mays</i> L.) embryos. <b>1996</b> , 121, 85-93 | 22     |
| 910 | Transformation technology. <b>1996</b> , 1, 423-431   | 93     |
| 909 | Efficient transformation of papaya by coat protein gene of papaya ringspot virus mediated by <i>Agrobacterium</i> following liquid-phase wounding of embryogenic tissues with caborundum. <b>1996</b> , 16, 127-32          | 67     |
| 908 | Effect of promoter-leader sequences on transient expression of reporter gene chimeras biolistically transferred into sugarbeet ( <i>Beta vulgaris</i> ) suspension cells. <b>1996</b> , 15, 836-40                          | 9      |
| 907 | Tobacco ( <i>Nicotiana tobaccum</i> ) nuclear transgenics with high copy number can express NPTII driven by the chloroplast psbA promoter. <b>1996</b> , 15, 479-83   | 1      |
| 906 | Concepts in Mycorrhizal Research. <b>1996</b> ,   | 2      |
| 905 | Manipulating DNA: from Cloning to Knockouts. <b>1996</b> , 2, 27-57   | 1      |
| 904 | Extranuclear DNA. <b>1996</b> , 59-107  | 1      |
| 903 | Uses of biotechnology in modifying plant lipids. <b>1996</b> , 31, 557-69   | 52     |
| 902 | Induction and characterization of humoral and cellular immune responses elicited via gene gun-mediated nucleic acid immunization. <b>1996</b> , 21, 3-18  | 25     |
| 901 | Developing particle-mediated gene-transfer technology for research into gene therapy of cancer. <b>1996</b> , 2, 476-81   | 22     |
| 900 | Transgene inheritance in plants genetically engineered by microprojectile bombardment. <b>1996</b> , 6, 17-30   | 109    |
| 899 | Stable genetic transformation of <i>Picea mariana</i> (black spruce) via particle bombardment. <b>1996</b> , 32, 91-99  | 57     |
| 898 | Prospects for gene therapy in sports medicine. <b>1996</b> , 4, 180-7   | 12     |
| 897 | Somatic embryo cycling: Evaluation of a novel transformation and assay system for seed-specific gene expression in soybean. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1996</b> , 47, 33-42                           | 2-7 29 |
| 896 | Modification of the radiation response by the administration of exogenous genes. <b>1996</b> , 6, 321-328   | 8      |
| 895 | In vivo biolistic technique in control and mdx dystrophic mice. <b>1996</b> , 19, 912-4   |        |

|     |   |     |
|-----|---|-----|
| 894 | A peroxiredoxin antioxidant is encoded by a dormancy-related gene, Per1, expressed during late development in the aleurone and embryo of barley grains. <b>1996</b> , 31, 1205-16 | 122 |
| 893 | Factors affecting transient gene expression in cultured radiata pine cotyledons following particle bombardment. <b>1996</b> , 96, 630-636   | 12  |
| 892 | Hydrolysis of glucuronide-based substrates mediated by tungsten, Cu <sup>2+</sup> , Fe <sup>2+</sup> , and Zn <sup>2+</sup> . <b>1996</b> , 96, 484-490                           | 1   |
| 891 | Plant Protoplasts and Genetic Engineering VII. <b>1996</b> ,  | 3   |
| 890 | Nuclear localization of the Arabidopsis APETALA3 and PISTILLATA homeotic gene products depends on their simultaneous expression. <b>1996</b> , 10, 1812-21                        | 113 |
| 889 | Gene Therapy Protocols. <b>1996</b> ,   | 1   |
| 888 | Transformation of <i>Saccharomyces cerevisiae</i> mitochondria using the biolistic gun. <b>1996</b> , 264, 265-78   | 46  |
| 887 | Methods for particle-mediated gene transfer into skin. <b>1997</b> , 7, 281-96  |     |
| 886 | Transfection of human endothelial cells. <b>1997</b> , 35, 522-8  | 52  |
| 885 | Protein binding to the abscisic acid-responsive element is independent of VIVIPAROUS1 in vivo. <b>1997</b> , 9, 2261-70   | 42  |
| 884 | Introduction of plasmid DNA into isolated mitochondria by electroporation. A novel approach toward gene correction for mitochondrial disorders. <b>1997</b> , 272, 5342-7         | 68  |
| 883 | Plant Molecular Biology [A Laboratory Manual]. <b>1997</b> ,  | 54  |
| 882 | Orchid Biology. <b>1997</b> ,   | 8   |
| 881 | liguleless1 encodes a nuclear-localized protein required for induction of ligules and auricles during maize leaf organogenesis. <b>1997</b> , 11, 616-28                          | 178 |
| 880 | <i>Arabidopsis thaliana</i> mutants altered in homologous recombination. <b>1997</b> , 94, 11731-5  | 37  |
| 879 | Particle-mediated gene delivery in vivo and in vitro. <b>2001</b> , Chapter 12, Unit 12.6   | 6   |
| 878 | Protein Binding to the Abscisic Acid-Responsive Element Is Independent of VIVIPAROUS1 in vivo. <b>1997</b> , 9, 2261  | 4   |
| 877 | Potential off biolistic transformation of barley microspores based on viability and transient $\beta$ -glucuronidase activity. <b>1997</b> , 40, 639-43                           | 15  |

|     |   |     |
|-----|---|-----|
| 876 | Cotton Crop Improvement Through Genetic Engineering. <b>1997</b> , 17, 185-208  | 41  |
| 875 | A simple system for pea transformation. <b>1997</b> , 16, 513-519   | 114 |
| 874 | Bacterial beta-galactosidase and human dystrophin genes are expressed in mouse skeletal muscle fibers after ballistic transfection. <b>1997</b> , 414, 319-22                                     | 37  |
| 873 | An Agrobacterium-mediated transient gene expression system for intact leaves. <b>1997</b> , 122, 101-108  | 541 |
| 872 | Recovery of transgenic asparagus plants by particle gun bombardment of somatic cells. <b>1997</b> , 126, 59-68  | 8   |
| 871 | Biotechnology applied to grain legumes. <b>1997</b> , 53, 83-97   | 71  |
| 870 | Low-voltage electric-discharge biolistic device. <b>1997</b> , 23, 650-2  | 3   |
| 869 | Use of pollen in gene transfer. <b>1997</b> , 423-437   | 2   |
| 868 | Simplified agar plate method for quantifying viable bacteria. <b>1997</b> , 23, 648-50  | 339 |
| 867 | Biolistic transformation of <i>Mucor circinelloides</i> . <b>1997</b> , 101, 953-956  | 20  |
| 866 | Simple hand-held devices for the efficient infection of plants with viral-encoding constructs by particle bombardment. <b>1997</b> , 64, 103-10   | 65  |
| 865 | Forest tree biotechnology. <b>1997</b> , 57, 1-44   | 5   |
| 864 | Novel defective interfering DNAs associated with ageratum yellow vein geminivirus infection of <i>Ageratum conyzoides</i> . <b>1997</b> , 239, 87-96  | 63  |
| 863 | Molecular characterization and promoter analysis of the maize cytosolic glyceraldehyde 3-phosphate dehydrogenase gene family and its expression during anoxia. <b>1997</b> , 33, 97-112           | 55  |
| 862 | Comparison of the activities of CaMV 35S and FMV 34S promoter derivatives in <i>Catharanthus roseus</i> cells transiently and stably transformed by particle bombardment. <b>1997</b> , 33, 943-6 | 56  |
| 861 | Transient expression of anthocyanin genes in barley epidermal cells: potential for use in evaluation of disease response genes. <b>1997</b> , 6, 233-244  | 14  |
| 860 | Microprojectile mediated plant transformation: A bibliographic search. <b>1997</b> , 95, 269-295  | 16  |
| 859 | Differential expression of two functional serine/threonine protein kinases from soybean that have an unusual acidic domain at the carboxy terminus. <b>1997</b> , 255, 359-71                     | 30  |

- 858 Possibilities of gene therapy in traumatic and degenerative lesions of the joints. Current experimental status and preliminary clinical applications. **1997**, 26, 450-458
- 857 Transient and stable transformation of wheat with DNA preparations delivered by a biolistic method. **1997**, 19, 277-284 8
- 856 Recombinant proteins from transgenic plants. **1997**, 8, 411-6 40
- 855 Plasmid-mediated gene transfer in neurons using the biolistics technique. **1997**, 71, 67-75 40
- 854 A Transient Assay for Rapid Functional Analysis of Transcription Factors in Arabidopsis. **1998**, 16, 191-191 12
- 853 Review: Application of biotechnology to forestry [molecular biology of conifers. **1998**, 14, 321-330 17
- 852 Micromechanical devices for intravascular drug delivery. **1998**, 87, 1387-94 54
- 851 Transient and stable transfection of Leishmania by particle bombardment. **1998**, 94, 123-6 6
- 850 Plant biotechnology. **1998**, 1, 159-60
- 849 Genetic engineering for cut-flower improvement. **1998**, 16, 33-79 57
- 848 Microinjection of mRNA encoding rat synapsin Ia alters synaptic physiology in identified motoneurons of the crayfish, *Procambarus clarkii*. **1998**, 37, 224-36 8
- 847  $\beta$ Glucuronidase gene and green fluorescent protein gene expression in de-exined pollen of *Nicotiana tabacum* by microprojectile bombardment. **1998**, 11, 159-162 8
- 846 Transformation system of rice suspension-cultured microcolonies by Electroporation. **1998**, 41, 193-200 4
- 845 Stable transformation of *Eustoma grandiflorum* by particle bombardment. **1998**, 17, 504-507 16
- 844 DNA immunization targeting the skin: molecular control of adaptive immunity. **1998**, 111, 183-8 79
- 843 Quantitative analysis of gene expression in organotypic slice-explant cultures by particle-mediated gene transfer. **1998**, 84, 181-91 27
- 842 Biolistic transformation of the human pathogenic fungus *Coccidioides immitis*. **1998**, 33, 129-141 16
- 841 A routine system for generation of transgenic rice (*Oryza sativa* L.) plants by microprojectile bombardment of embryogenic cell clusters. **1998**, 133, 203-210 8

|     |   |       |
|-----|---|-------|
| 840 | Plant Transformation. <b>1998</b> , 251-269   | 1     |
| 839 | Transgenic Plants Expressing Toxins from <i>Bacillus thuringiensis</i> . <b>1999</b> , 211-232  | 4     |
| 838 | Cassava Biotechnology. <b>1998</b> , 15, 329-364  | 5     |
| 837 | Neuronal transfection using particle-mediated gene transfer. <b>2001</b> , Chapter 3, Unit 3.15   | 7     |
| 836 | DNA Transfer and Gene Expression in Transgenic Grapes. <b>1998</b> , 15, 365-386  | 21    |
| 835 | Analysis of RNA editing in plastids. <b>1998</b> , 15, 75-83  | 31    |
| 834 | Transient Gene Expression in Plant Protoplasts. <b>1998</b> , 165-175   | 1     |
| 833 | Methods for Plant Genetic Transformation. <b>1998</b> , 67-82   | 1     |
| 832 | Actinorhizal Symbioses: Recent Advances in Plant Molecular and Genetic Transformation Studies. <b>1998</b> , 17, 1-28   | 39    |
| 831 | Biopesticides. <b>1998</b> ,  | 8     |
| 830 | Cotton. <b>1998</b> ,   |       |
| 829 | Somaclonal Variation and Induced Mutations in Crop Improvement. <b>1998</b> ,   | 29    |
| 828 | Recombinant Proteins from Plants. <b>1998</b> ,   | 4     |
| 827 | Transgene organization in rice engineered through direct DNA transfer supports a two-phase integration mechanism mediated by the establishment of integration hot spots. <b>1998</b> , 95, 7203-8 | 236   |
| 826 | Expression of engineered antibodies in plants: a possible tool for spiroplasma and phytoplasma disease control. <b>1998</b> , 88, 1367-71   | 21    |
| 825 | A role for heterodimerization in nuclear localization of a homeodomain protein. <b>1998</b> , 95, 6228-33   | 71    |
| 824 | Transient expression of foreign genes in tissues of <i>Arabidopsis thaliana</i> by bombardment-mediated transformation. <i>Methods in Molecular Biology</i> , <b>1998</b> , 82, 219-25            | 1.4 6 |
| 823 | Gene Deliver Technology. <b>1999</b> , 293-322  | 1     |



|     |   |     |     |
|-----|---|-----|-----|
| 822 | Transfection of adipocytes by gene gun-mediated transfer. <b>1999</b> , 26, 660-2, 668  |     | 9   |
| 821 | Endosperm specific expression of a gliadin-actin hybrid promoter in transgenic rice ( <i>Oryza sativa</i> L.). <b>1999</b> , 27, 241-249  |     | 2   |
| 820 | Sac3, an Snf1-Like Serine/Threonine Kinase That Positively and Negatively Regulates the Responses of <i>Chlamydomonas</i> to Sulfur Limitation. <b>1999</b> , 11, 1179                      |     | 1   |
| 819 | Preparations for particle-mediated gene transfer using the accell <sup>®</sup> gene gun. <b>2000</b> , 29, 297-303  |     | 5   |
| 818 | Group II intron splicing in chloroplasts: identification of mutations determining intron stability and fate of exon RNA. <b>1999</b> , 27, 2345-53  |     | 21  |
| 817 | Methods of Genetic Transformation: The Gene Gun. <b>1999</b> , 21-42  |     | 15  |
| 816 | Sac3, an Snf1-like serine/threonine kinase that positively and negatively regulates the responses of <i>Chlamydomonas</i> to sulfur limitation. <b>1999</b> , 11, 1179-90                   |     | 107 |
| 815 | Transfection technologies. <i>Methods in Molecular Biology</i> , <b>2000</b> , 130, 91-102  | 1.4 | 6   |
| 814 | Transcription Factor Protocols. <b>1999</b> ,   |     |     |
| 813 | Genetic regulatory elements introduced into neural stem and progenitor cell populations. <b>1999</b> , 9, 547-67  |     | 8   |
| 812 | Transient expression of the uidA gene in <i>Pinus pinea</i> cotyledons: A study of heterologous promoter sequences. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1999</b> , 56, 69-78   | 2.7 | 13  |
| 811 | Generation of DNA double-strand breaks and inhibition of somatic embryogenesis by tungsten microparticles in wheat. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1999</b> , 58, 163-170 | 2.7 | 16  |
| 810 | A novel promoter from soybean that is active in a complex developmental pattern with and without its proximal 650 base pairs. <b>1999</b> , 41, 217-31                                      |     | 31  |
| 809 | Recovery of transgenic orchid plants with hygromycin selection by particle bombardment to protocorms. <i>Plant Cell, Tissue and Organ Culture</i> , <b>1999</b> , 58, 87-92                 | 2.7 | 22  |
| 808 | Constitutive protein-DNA interactions on the abscisic acid-responsive element before and after developmental activation of the rab28 gene. <b>1999</b> , 41, 529-36                         |     | 15  |
| 807 | Rice cell culture as an alternative production system for functional diagnostic and therapeutic antibodies. <b>1999</b> , 8, 441-9  |     | 91  |
| 806 | Genetic transformation of <i>Cymbidium</i> orchid by particle bombardment. <b>1999</b> , 18, 978-984  |     | 61  |
| 805 | Mutational analysis of the signal for a nuclear localization of proteins which accumulate specifically during meiosis in lily microsporocytes. <b>1999</b> , 19, 101-105                    |     | 3   |

804 Therapy of arthritis by gene transfer. **1999**, 28, 76-81

803 Production of transgenic tropical maize with cryIAb and cryIAc genes via microprojectile bombardment of immature embryos. **1999**, 99, 437-44 31

802 Transient expression of the beta-glucuronidase gene in tissues of Arabidopsis thaliana by bombardment-mediated transformation. **1999**, 11, 251-5 13

801 Genetic transformation of Linum by particle bombardment. **1999**, 35, 456-465 23

800 Filtration: A simple, reliable technique for transfection and macromolecular loading of cells in suspension. **1999**, 65, 341-346 6

799 DNA Vaccines. **1999**, 5

798 Genetic Transformation of Medicinal Plants. **1999**, 1-29 5

797 Development of the molecular methods for potato virus and viroid detection and prevention. **1999**, 42, 592-604 24

796 An efficient Biolistic<sup>®</sup> transformation protocol for Picea abies embryogenic tissue and regeneration of transgenic plants. **1999**, 29, 1539-1546 43

795 Ballistic transformation of Caenorhabditis elegans. **1999**, 229, 31-5 88

794 Differential Expression of Sugarcane Polyubiquitin Genes and Isolation of Promoters from two Highly-Expressed Members of the Gene Family. **1999**, 155, 513-519 16

793 Gene discovery and product development for grain quality traits. **1999**, 285, 372-5 203

792 Plant Transformation and Transgenic Crops.. **2000**, 6, 241-247 2

791 DOH1, a Class 1 knox Gene, Is Required for Maintenance of the Basic Plant Architecture and Floral Transition in Orchid. **2000**, 12, 2143

790 Orthopaedic Applications of Gene Therapy. **2000**, 375, 324-337 27

789 The gene gun: current applications in cutaneous gene therapy. **2000**, 39, 161-70 84

788 Biolistic transformation of chincherinchee (Ornithogalum) and regeneration of transgenic plants. **2000**, 109, 450-455 13

787 Engineering chloroplasts: an alternative site for foreign genes, proteins, reactions and products. **2000**, 18, 257-63 108

|     |  |     |
|-----|--|-----|
| 786 | Towards genetic transformation in the monocot <i>Alstroemeria</i> L.. <b>2000</b> , 115, 17-26   | 4   |
| 785 | Cereal crops as viable production and storage systems for pharmaceutical scFv antibodies. <b>2000</b> , 42, 583-90   | 232 |
| 784 | ERN1, a novel ethylene-regulated nuclear protein of <i>Arabidopsis</i> . <b>2000</b> , 44, 11-25   | 8   |
| 783 | Linear transgene constructs lacking vector backbone sequences generate low-copy-number transgenic plants with simple integration patterns. <b>2000</b> , 9, 11-9                         | 152 |
| 782 | Tungsten particle-induced nicking of supercoiled plasmid DNA. <b>2000</b> , 44, 89-93  | 17  |
| 781 | Plant transformation technology. Developments and applications. <b>2000</b> , 16, 53-65  | 100 |
| 780 | The development of the biolistic process. <b>2000</b> , 36, 303-308  | 27  |
| 779 | Production of stably transformed cassava plants via particle bombardment. <b>2000</b> , 19, 939-945  | 40  |
| 778 | PIG-mediated cassava transformation using positive and negative selection. <b>2000</b> , 19, 1041-1048   | 57  |
| 777 | <i>Agrobacterium tumefaciens</i> -mediated transformation and transgenic-plant regeneration of onion ( <i>Allium cepa</i> L.). <b>2000</b> , 19, 376-381                                 | 61  |
| 776 | Transient transformation of the rust fungus <i>Puccinia graminis</i> f. sp. <i>tritici</i> . <b>2000</b> , 262, 911-5  | 33  |
| 775 | The activity of exogenous genetic constructs introduced into cells by the technique of ballistic transfection in mouse ontogenesis. <b>2000</b> , 31, 326-331                            |     |
| 774 | Stable chloroplast transformation in <i>Chlamydomonas reinhardtii</i> using microprojectile bombardment. <b>2000</b> , 45, 496-504   | 8   |
| 773 | High Efficiency Transformation of U.S. Rice Lines from Mature Seed-Derived Calli and Segregation of Glufosinate Resistance under Field Conditions. <b>2000</b> , 40, 1729-1741           | 26  |
| 772 | Transgenic plants and biosafety: science, misconceptions and public perceptions. <b>2000</b> , 29, 832-6, 838-43   | 64  |
| 771 | Genetic Engineering, Plants. <b>2000</b> ,   |     |
| 770 | Biolistic transfection of neurons. <b>2000</b> , 2000, pl1   | 45  |
| 769 | Transfer of platelet-derived growth factor-BB gene by gene gun increases contraction of collagen lattice by fibroblasts in diabetic and non-diabetic human skin. <b>2000</b> , 34, 301-7 | 5   |

|     |   |     |
|-----|---|-----|
| 768 | The genetic transformation of rice and maize. <b>2000</b> , 43-69   |     |
| 767 | Host specificity in avian blood parasites: a study of Plasmodium and Haemoproteus mitochondrial DNA amplified from birds. <b>2000</b> , 267, 1583-9 | 458 |
| 766 | Arabidopsis in planta transformation. Uses, mechanisms, and prospects for transformation of other species. <b>2000</b> , 124, 1540-7                | 163 |
| 765 | Cotton Biotechnology. <b>2000</b> , 19, 511-550   | 80  |
| 764 | Particle bombardment mediated transformation. <b>1999</b> , 240, 59-80  | 15  |
| 763 | Metabolic Engineering of Plant Secondary Metabolism. <b>2000</b> ,  | 89  |
| 762 | DOH1, a class 1 knox gene, is required for maintenance of the basic plant architecture and floral transition in orchid. <b>2000</b> , 12, 2143-60   | 46  |
| 761 | Efficient transformation of Dictyostelium discoideum with a particle inflow gun. <b>2000</b> , 1499, 139-143  | 8   |
| 760 | In vivo gene gun-mediated transduction into rat heart with Epstein-Barr virus-based episomal vectors. <b>2000</b> , 70, 1332-7                      | 16  |
| 759 | Signal transduction through prion protein. <b>2000</b> , 289, 1925-8  | 624 |
| 758 | Mycorrhizal Biology. <b>2000</b> ,  | 12  |
| 757 | Plant Biotechnology. <b>2000</b> ,  | 2   |
| 756 | Molecular Biology of Woody Plants. <b>2000</b> ,  | 2   |
| 755 | Production of the isoflavones genistein and daidzein in non-legume dicot and monocot tissues. <b>2000</b> , 124, 781-94                             | 207 |
| 754 | Transgenics in crops. <b>2001</b> , 7, 239-60   | 4   |
| 753 | Use of gene gun for genetic immunotherapy : in vitro and in vivo methods. <b>2001</b> , 61, 223-40  | 0   |
| 752 | Transgenic plastids in basic research and plant biotechnology. <b>2001</b> , 312, 425-38  | 231 |
| 751 | A current perspective on insect gene transformation. <b>2001</b> , 31, 111-28   | 78  |

750 Vascular Applications of Micro- and Nanotechnology. **2001**, 12, P236-P240

749 Transformation and gene expression. **2001**, 34, 59-126 17

748 A biolistic process for in vitro gene transfer into chicken embryos. **2001**, 34, 1115-24

747 Genetic Engineering of Pinus Radiata and Picea Abies, Production of Transgenic Plants and Gene Expression Studies. **2001**, 211-222 2

746 Molecular transformation, gene cloning, and gene expression systems for filamentous fungi. **2001**, 1, 199-238 2

745 Plant Transformation. **2001**,

744 Nonviral gene therapy. *Current Gene Therapy*, **2001**, 1, 201-26 4-3 64

743 A non-antibiotic marker for amplification of plant transformation vectors in E. coli. **2001**, 20, 338-342 7

742 Evaluation of a plant regeneration test of embryogenic cell suspension cultures of rice (*Oryza sativa* L. cv Taipei 309). **2001**, 37, 658-666 1

741 Genetic transformation of wheat: progress during the 1990s into the Millennium. **2001**, 23, 221-239 7

740 Modifications to the hand-held Gene Gun: improvements for in vitro biolistic transfection of organotypic neuronal tissue. **2001**, 112, 57-64 74

739 *Agrobacterium tumefaciens*-mediated transformation of *Allium cepa* L.: the production of transgenic onions and shallots. **2001**, 7, 101-115 35

738 Biolistic transformation of arbuscular mycorrhizal fungi. Progress and perspectives. **2001**, 18, 25-33 19

737 Mechanical transmission of polioviruses. **2001**, 91, 197-201 12

736 Protoplast preparation and transient transformation of *Rhizoctonia solani*. **2001**, 105, 1295-1303 18

735 Interactions and nuclear import of the N and P proteins of sonchus yellow net virus, a plant nucleorhabdovirus. **2001**, 75, 9393-406 62

734 Mobile self-splicing group I introns from the psbA gene of *Chlamydomonas reinhardtii*: highly efficient homing of an exogenous intron containing its own promoter. **2001**, 21, 3472-81 18

733 Melanoma Techniques and Protocols. **2001**,

|     |   |    |
|-----|---|----|
| 732 | Superfluous Transgene Integration in Plants. <b>2001</b> , 20, 215-249  | 26 |
| 731 | Immunotherapeutic approach to cancer with cutaneous DNA vaccination. <b>2001</b> , 53, 313-21   |    |
| 730 | Treatment of chronic wounds: state of the art and future concepts. <b>2002</b> , 172, 105-17  | 50 |
| 729 | Gene therapy in soft tissue reconstruction. <b>2002</b> , 172, 118-25   | 21 |
| 728 | Testing for Genetic Manipulation in Plants. <b>2002</b> ,   | 2  |
| 727 | Breeding For Ornamentals: Classical and Molecular Approaches. <b>2002</b> ,   | 14 |
| 726 | References. <b>2002</b> , 857-981   | 1  |
| 725 | Splicing of the maize Sh1 first intron is essential for enhancement of gene expression, and a T-rich motif increases expression without affecting splicing. <b>2002</b> , 130, 918-29 | 82 |
| 724 | Isolation and characterization of the orchid cytokinin oxidase DSKX1 promoter. <b>2002</b> , 53, 1899-907   | 16 |
| 723 | Advanced Fluid Information. Applications of Shock Wave Phenomena to Interdisciplinary Research.. <b>2002</b> , 45, 9-14   | 2  |
| 722 | Towards genetic engineering of maritime pine ( <i>Pinus pinaster</i> Ait.). <b>2002</b> , 59, 687-697   | 28 |
| 721 | Overview of Crop Biotechnology. <b>2002</b> , 1-6   |    |
| 720 | Biotechnology. <b>2002</b> ,  |    |
| 719 | Genetic Transformation of Plants and Their Cells. <b>2002</b> ,   | 6  |
| 718 | Transgenic Plants in Modern Agriculture. <b>2002</b> , 4, 1-23  | 10 |
| 717 | Production of fertile transgenic lentil ( <i>Lens culinaris</i> Medik) plants using particle bombardment. <b>2002</b> , 38, 316-324   | 34 |
| 716 | Genetic Engineering. <b>2002</b> ,  |    |
| 715 | Molecular approaches to the study of <i>Coccidioides immitis</i> . <b>2002</b> , 292, 373-80  | 4  |

|     |   |     |     |
|-----|---|-----|-----|
| 714 | Cloning of a chitinase-like cDNA (hs2), its transfer to creeping bentgrass ( <i>Agrostis palustris</i> Huds.) and development of brown patch ( <i>Rhizoctonia solani</i> ) disease resistant transgenic lines. <b>2002</b> , 163, 183-193 |     | 28  |
| 713 | Between myth and reality: genetically modified maize, an example of a sizeable scientific controversy. <b>2002</b> , 84, 1095-103   |     | 33  |
| 712 | TRANSIENT GENE EXPRESSION IN MAIZE AND ASPARAGUS POLLEN USING MAGNETIC PARTICLES BY PARTICLE GUN. <b>2002</b> , 329-334   |     | 1   |
| 711 | Manipulating gene expression for the metabolic engineering of plants. <b>2002</b> , 4, 67-79  |     | 87  |
| 710 | Strategies for the transformation of filamentous fungi. <b>2002</b> , 92, 189-95  |     | 156 |
| 709 | Maize DRE-binding proteins DBF1 and DBF2 are involved in rab17 regulation through the drought-responsive element in an ABA-dependent pathway. <b>2002</b> , 30, 679-89  |     | 211 |
| 708 | Relative promoter strengths in four human prostate cancer cell lines evaluated by particle bombardment-mediated gene transfer. <b>2002</b> , 51, 286-92   |     | 8   |
| 707 | Spatial and temporal expression of the orchid floral homeotic gene DOMADS1 is mediated by its upstream regulatory regions. <b>2002</b> , 49, 225-37   |     | 20  |
| 706 | Gene technologies in <i>Pinus radiata</i> and <i>Picea abies</i> : tools for conifer biotechnology in the 21st century. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2002</b> , 70, 3-12  | 2.7 | 11  |
| 705 | Generation of chlorsulfuron-resistant transgenic garlic plants ( <i>Allium sativum</i> L.) by particle bombardment. <b>2002</b> , 9, 171-181  |     | 15  |
| 704 | Transformation of <i>Chlamydomonas reinhardtii</i> CW-15 with the Hygromycin Phosphotransferase Gene as a Selectable Marker. <b>2002</b> , 38, 1009-1014  |     | 7   |
| 703 | Glyphosate as a selective agent for the production of fertile transgenic maize ( <i>Zea mays</i> L.) plants. <b>2002</b> , 10, 153-164  |     | 59  |
| 702 | Transformation of CW-15 Mutant Cells of <i>Chlamydomonas reinhardtii</i> Dang. with pCTVHyg Plasmid. <b>2002</b> , 49, 832-838  |     |     |
| 701 | Transgene integration, organization and interaction in plants. <b>2003</b> , 52, 247-58   |     | 198 |
| 700 | The promoter of the <i>asi</i> gene directs expression in the maternal tissues of the seed in transgenic barley. <b>2003</b> , 52, 787-99   |     | 24  |
| 699 | Characterization of a MYBR2R3 gene from black spruce ( <i>Picea mariana</i> ) that shares functional conservation with maize C1. <b>2003</b> , 270, 78-86   |     | 20  |
| 698 | Preliminary attempts to biolistic inoculation of grapevine fanleaf virus. <b>2003</b> , 108, 29-40  |     | 7   |
| 697 | Metabolic engineering to increase isoflavone biosynthesis in soybean seed. <b>2003</b> , 63, 753-63   |     | 206 |

|     |  |        |
|-----|--|--------|
| 696 | Biolistic transfection of organotypic cultures of rat visual cortex using a handheld device. <b>2003</b> , 125, 45-54  | 20     |
| 695 | Micro and nano scale metal oxide hollow particles produced by spray precipitation in a liquid-liquid system. <b>2003</b> , 359, 24-30  | 17     |
| 694 | The public-private structure of intellectual property ownership in agricultural biotechnology. <b>2003</b> , 21, 989-95  | 107    |
| 693 | Genetic Transformation of Soybean with Biolistics. <b>2003</b> , 159-174   | 4      |
| 692 | Nonviral gene delivery: techniques and implications for molecular medicine. <b>2003</b> , 5, 1-15  | 56     |
| 691 | Application of Differential Display RT-PCR and EST/Microarray Technologies to the Analysis of Gene Expression in Response to Drought Stress and Elimination of Aflatoxin Contamination in Corn and Peanut. <b>2003</b> , 22, 287-312 | 8      |
| 690 | Genetic Transformation of Plants. <b>2003</b> ,  | 2      |
| 689 | Applied Genetics of Leguminosae Biotechnology. <b>2003</b> ,   |        |
| 688 | Regeneration and Genetic Transformation in Peanut: Current Status and Future Prospects. <b>2003</b> , 165-186  | 3      |
| 687 | Biolistic transfection of cultured organotypic brain slices. <i>Methods in Molecular Biology</i> , <b>2004</b> , 245, 197-206  | 14     |
| 686 | Biolistic transfection. <b>2003</b> , 71, 353-68   | 8      |
| 685 | Nonviral gene gun mediated transfer into the beating heart. <b>2003</b> , 49, 641-4  | 23     |
| 684 | Delivery of DNA to skin by particle bombardment. <i>Methods in Molecular Biology</i> , <b>2004</b> , 245, 185-96   | 1.4 20 |
| 683 | Introduction to Agricultural Biotechnology: Challenges and Prospects. <b>2003</b> , 3-17   | 1      |
| 682 | Microprojectile-mediated genetic transformation and regeneration of Chinese elm. <b>2003</b> , 83, 587-591   | 3      |
| 681 | Efficient Agroinfiltration-mediated Transient GUS Expression System for Assaying Different Promoters in Rice.. <b>2003</b> , 20, 235-239   | 7      |
| 680 | Biolistic transformation of <i>Saccharomyces cerevisiae</i> with b-glucosidase gene from <i>Cellulomonas biazotea</i> . <b>2004</b> , 3, 112-115   | 1      |
| 679 | . <b>2004</b> ,  | 22     |



|     |   |        |
|-----|---|--------|
| 678 | Introduç de genes em segmentos foliares de cupua (Theobroma grandiflorum schumm.) usando biobalística. <b>2004</b> , 34, 265-279  |        |
| 677 | Chloroplast Transformation: Current Results and Future Prospects. <b>1996</b> , 589-619   | 1      |
| 676 | Gene transfer in tissue repair: status, challenges and future directions. <b>2004</b> , 4, 1373-86  | 33     |
| 675 | Chloroplast Genetic Engineering. <b>2004</b> , 443-490  | 21     |
| 674 | Chapter eight Metabolic engineering of soybean for improved flavor and health benefits. <b>2004</b> , 38, 153-176   | 1      |
| 673 | Physical enhancement of transdermal drug application: is delivery technology keeping up with pharmaceutical development?. <b>2004</b> , 1, 81-92  | 100    |
| 672 | A golden shot: how ballistic single cell transformation boosts the molecular analysis of cereal-mildew interactions. <b>2004</b> , 5, 141-8   | 34     |
| 671 | Biolistic inoculation of plants with viroid nucleic acids. <b>2004</b> , 122, 153-64  | 27     |
| 670 | Systematic transient assays of promoter activities for leaf-specific genes identified by gene-expression profiling with cDNA microarrays in Arabidopsis thaliana. <b>2004</b> , 98, 140-3 | 7      |
| 669 | Greenhouse evaluation of fitness-related reproductive traits in roundup-tolerant transgenic creeping bentgrass (Agrostis Stolonifera L.). <b>2004</b> , 40, 266-273                       | 12     |
| 668 | Genetic engineering in conifer forestry: Technical and social considerations. <b>2004</b> , 40, 434-441   | 19     |
| 667 | Production of Transgenic Soybean Plants with Two Anti-Fungal Protein Genes Via Agrobacterium and Particle Bombardment. <b>2004</b> , 48, 367-374  | 22     |
| 666 | Improving transformation efficiency of Arabidopsis thaliana by modifying the floral dip method. <b>2004</b> , 22, 63-70   | 108    |
| 665 | Heavy ion induced DNA transfer in biological cells. <b>2004</b> , 71, 927-935   | 12     |
| 664 | Development of a non-lethal selection system by using the aadA marker gene for efficient recovery of transgenic rice (Oryza sativa L.). <b>2004</b> , 22, 490-6                           | 9      |
| 663 | Efficient transformation of mutant cells of Chlamydomonas reinhardtii by electroporation. <b>2004</b> , 39, 1685-1691   | 13     |
| 662 | Production Practices and Quality Assessment of Food Crops. <b>2004</b> ,  | 5      |
| 661 | Three decades of fungal transformation: key concepts and applications. <i>Methods in Molecular Biology</i> , <b>2004</b> , 267, 297-313   | 1.4 23 |

|     |   |     |
|-----|---|-----|
| 660 | Plastid transformation in higher plants. <b>2004</b> , 55, 289-313  | 404 |
| 659 | Modification of Fruit Ripening by Genetic Transformation. <b>2004</b> , 451-472   |     |
| 658 | SHOCKWAVE/GEOPHYSICAL ANDMEDICALAPPLICATIONS. <b>2004</b> , 36, 347-379   | 50  |
| 657 | Molecular Biology and Biotechnology of Plant Organelles. <b>2004</b> ,  | 14  |
| 656 | Recombinant Gene Expression. <b>2004</b> ,  | 8   |
| 655 | Genetic Transformation of Crops for Insect Resistance: Potential and Limitations. <b>2004</b> , 23, 47-72   | 99  |
| 654 | The relevance of gene transfer to the safety of food and feed derived from genetically modified (GM) plants. <b>2004</b> , 42, 1127-56                              | 97  |
| 653 | Microsystems for drug and gene delivery. <b>2004</b> , 92, 56-75  | 74  |
| 652 | Applications of Transposable Elements in Fish for Transgenesis and Functional Genomics. <b>2004</b> , 532-580   | 1   |
| 651 | Medicinal plants at the ethnobotanyBiotechnology interface in Africa. <b>2004</b> , 70, 89-96   | 12  |
| 650 | Fermented Food Production using Genetically Modified Yeast and Filamentous Fungi. <b>2005</b> , 62-85   |     |
| 649 | Monocot Expression Systems for Molecular Farming. <b>2005</b> , 55-67   |     |
| 648 | Preparation of mono-dispersed mixed metal oxide micro hollow spheres by homogeneous precipitation in a micro precipitator. <b>2005</b> , 153, 166-175               | 61  |
| 647 | Modifying soybean oil for enhanced performance in biodiesel blends. <b>2005</b> , 86, 1137-1147   | 153 |
| 646 | Physical methods for gene transfer: improving the kinetics of gene delivery into cells. <b>2005</b> , 57, 733-53  | 295 |
| 645 | Development of plant regeneration and transformation protocols for the desiccation-sensitive weeping lovegrass <i>Eragrostis curvula</i> . <b>2005</b> , 24, 335-40 | 10  |
| 644 | TransientAgrobacterium-mediated gene expression in theArabidopsis hydroponics root system for subcellular localization studies. <b>2005</b> , 23, 179-184           | 12  |
| 643 | Particle bombardment and the genetic enhancement of crops: myths and realities. <b>2005</b> , 15, 305-327   | 236 |

|     |   |        |
|-----|---|--------|
| 642 | Genetic transformation of <i>Coffea canephora</i> by particle bombardment. <b>2005</b> , 49, 493-497  | 25     |
| 641 | High-throughput functional screening of plant and pathogen genes in planta. <b>2005</b> , 22, 455-459   | 6      |
| 640 | DNA-Transformation und Charakterisierung transgener Organismen. <b>2005</b> , 141-220   |        |
| 639 | Chloroplast Genetic Engineering: Recent Advances and Future Perspectives. <b>2005</b> , 24, 83-107  | 84     |
| 638 | Development of the Simple Gene Gun Apparatuses Systems. <b>2005</b> , 19, 91-100  | 2      |
| 637 | Laser-ablation-assisted microparticle acceleration for drug delivery. <b>2005</b> , 87, 163504  | 40     |
| 636 | Pneumatic capillary gun for ballistic delivery of microparticles. <b>2005</b> , 87, 014103  | 15     |
| 635 | Effects of Three Promoters in Barley Transformation by Particle Bombardment of Mature and Immature Embryos. <b>2005</b> , 19, 63-69                   | 5      |
| 634 | <i>Arabidopsis</i> CBF3/DREB1A and ABF3 in transgenic rice increased tolerance to abiotic stress without stunting growth. <b>2005</b> , 138, 341-51   | 523    |
| 633 | Production of transgenic plants resistant to leaf blast disease in finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.). <b>2005</b> , 169, 657-667 | 78     |
| 632 | History of plant tissue culture. <i>Methods in Molecular Biology</i> , <b>2006</b> , 318, 9-32  | 1.4 12 |
| 631 | Plant Tissue Culture Engineering. <b>2006</b> ,   | 11     |
| 630 | Chitosan-DNA nanoparticles: the effect of cell type and hydrolysis of chitosan on in vitro DNA transfection. <b>2006</b> , 11, 503-12                 | 28     |
| 629 | Ornamental Plant Transformation. <b>2006</b> , 17, 27-50  | 10     |
| 628 | <i>Arabidopsis</i> Protocols. <b>2006</b> ,   | 2      |
| 627 | The dawning of the age of Biotechnology 1970-1990. <b>2006</b> , 45-91  |        |
| 626 | Integration and expression of Bluetongue VP2 gene in somatic embryos of peanut through particle bombardment method. <b>2006</b> , 24, 2994-3000       | 15     |
| 625 | . <b>2006</b> ,   | 9      |

|     |  |     |    |
|-----|--|-----|----|
| 624 | CFD SIMULATION AND CHARACTERIZATION OF A DEVICE FOR POWDERED PHARMACEUTICALS AND BIOLOGICALS DELIVERY. <b>2006</b> , 06, 285-297   |     |    |
| 623 | Genetic Engineering in Conifer Plantation Forestry. <b>2006</b> , 55, 253-262  |     | 15 |
| 622 | Development of Biotech Crops in China. <b>2006</b> , 53-67   |     | 1  |
| 621 | Recent Advances in Food Biotechnology Research. 35-70  |     | 8  |
| 620 | Gene-enhanced tissue engineering for dental hard tissue regeneration: (1) overview and practical considerations. <b>2006</b> , 2, 12   |     | 15 |
| 619 | The particle inflow gun can be used to co-transform Paramecium using Tungsten particles. <b>2006</b> , 53, 16-9  |     | 1  |
| 618 | Maize DBF1-interactor protein 1 containing an R3H domain is a potential regulator of DBF1 activity in stress responses. <b>2006</b> , 46, 747-57   |     | 34 |
| 617 | An Arabidopsis chloroplast-targeted Hsp101 homologue, APG6, has an essential role in chloroplast development as well as heat-stress response. <b>2006</b> , 48, 249-60                           |     | 62 |
| 616 | Construction of marker-free transplastomic tobacco using the Cre-loxP site-specific recombination system. <b>2006</b> , 1, 900-10  |     | 53 |
| 615 | Biolistic transfection of neuronal cultures using a hand-held gene gun. <b>2006</b> , 1, 977-81  |     | 87 |
| 614 | Physical/mathematical modelling of fluid and particle transportation for DNA vaccination. <b>2006</b> , 44, 1037-1049  | 7   |    |
| 613 | Wheat Dof transcription factor WPBF interacts with TaQM and activates transcription of an alpha-gliadin gene during wheat seed development. <b>2007</b> , 63, 73-84                              |     | 76 |
| 612 | Green fluorescent protein as a vital marker for non-destructive detection of transformation events in transgenic plants. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2006</b> , 86, 303-318 | 2.7 | 33 |
| 611 | Numerical analysis of gas and micro-particle interactions in a hand-held shock-tube device. <b>2006</b> , 8, 341-51  |     | 25 |
| 610 | Gas and Particle Dynamics of a Contoured Shock Tube for Pre-clinical Microparticle Drug Delivery. <b>2006</b> , 15, 149-164  |     | 18 |
| 609 | Agrobacterium and biolistic transformation of onion using non-antibiotic selection marker phosphomannose isomerase. <b>2006</b> , 25, 92-9   |     | 40 |
| 608 | Biolistic transformation of grapevine using minimal gene cassette technology. <b>2006</b> , 25, 807-14   |     | 52 |
| 607 | Gene therapy in orthopaedics. <b>2006</b> , 37 Suppl 1, S30-40   |     | 17 |

|     |   |       |
|-----|---|-------|
| 606 | Enhancement of biomolecule transport by electroporation: a review of theory and practical application to transformation of <i>Corynebacterium glutamicum</i> . <b>2006</b> , 93, 413-23 | 34    |
| 605 | Vinyl polymers as non-viral gene delivery carriers: current status and prospects. <b>2006</b> , 6, 789-810  | 65    |
| 604 | Fermentation of Food by Means of Genetically Modified Yeast and Filamentous Fungi. <b>2006</b> , 64-94  | 1     |
| 603 | Functional analysis of transcription factors by microparticle bombardment. <i>Methods in Molecular Biology</i> , <b>2006</b> , 323, 231-6   | 1.4 1 |
| 602 | The Evolution of Biotechnology. <b>2006</b> ,   | 4     |
| 601 | Differential distribution of the lipoxygenase pathway enzymes within potato chloroplasts. <b>2007</b> , 58, 555-68  | 78    |
| 600 | Biotechnological Applications of Photosynthetic Proteins: Biochips, Biosensors and Biodevices. <b>2006</b> ,  | 10    |
| 599 | Changing images of the gene. <b>2006</b> , 56, 53-100   | 6     |
| 598 | Microtargeted gene silencing and ectopic expression in live embryos using biolistic delivery with a pneumatic capillary gun. <b>2006</b> , 26, 6119-23                                  | 18    |
| 597 | Preliminary studies of particle-mediated gene delivery to the joints of dogs. <b>2007</b> , 160, 476-81   |       |
| 596 | A universal expression/silencing vector in plants. <b>2007</b> , 145, 1251-63   | 43    |
| 595 | The delivery of PEBBLE nanosensors to measure the intracellular environment. <b>2007</b> , 35, 538-43   | 24    |
| 594 | Gene transfer methods for plants and cell cultures. <b>1990</b> , 154, 198-208; discussion 208-12   | 1     |
| 593 | Developmental modulation of inulin accumulation in storage organs of transgenic maize and transgenic potato. <b>2007</b> , 173, 172-181   | 28    |
| 592 | Transgenic Crops VI. <b>2007</b> ,  | 4     |
| 591 | Transgenic Crops IV. <b>2007</b> ,  | 3     |
| 590 | Onion, Garlic and Related Species. <b>2007</b> , 415-433  | 4     |
| 589 | Maize. <b>2007</b> , 73-105   | 3     |

|     |   |     |
|-----|---|-----|
| 588 | Transgenic Crops V. <b>2007</b> ,   | 1   |
| 587 | Thirty years of plant transformation technology development. <b>2007</b> , 5, 221-9   | 75  |
| 586 | Viability and bar expression are negatively correlated in Oregon Wolfe Barley Dominant hybrids. <b>2007</b> , 5, 381-8  | 9   |
| 585 | Salt tolerance (STO), a stress-related protein, has a major role in light signalling. <b>2007</b> , 51, 563-74  | 104 |
| 584 | Infection, transfection, and co-transfection of baculoviruses by microprojectile bombardment of larvae. <b>2007</b> , 140, 124-31   | 5   |
| 583 | Impact studies of high-speed micro-particles following biolistic delivery. <b>2007</b> , 54, 1507-13  | 5   |
| 582 | Isolation of two highly active soybean ( <i>Glycine max</i> (L.) Merr.) promoters and their characterization using a new automated image collection and analysis system. <b>2007</b> , 26, 1501-9 | 48  |
| 581 | Simple and efficient plastid transformation system for the liverwort <i>Marchantia polymorpha</i> L. suspension-culture cells. <b>2007</b> , 16, 41-9   | 41  |
| 580 | High efficiency of stable genetic transformation in <i>Dendrobium</i> via microprojectile bombardment. <b>2007</b> , 51, 720-727  | 23  |
| 579 | Characteristics of a micro-biolistic system for murine immunological studies. <b>2007</b> , 9, 465-74   | 9   |
| 578 | History of plant tissue culture. <b>2007</b> , 37, 169-80   | 140 |
| 577 | Utilization of the venturi effect to introduce micro-particles for epidermal vaccination. <b>2007</b> , 29, 390-7   | 12  |
| 576 | Shock wave driven microparticles for pharmaceutical applications. <b>2008</b> , 18, 393-400   | 16  |
| 575 | A history of plant biotechnology: from the Cell Theory of Schleiden and Schwann to biotech crops. <b>2008</b> , 27, 1423-40   | 86  |
| 574 | Stable genetic transformation of castor ( <i>Ricinus communis</i> L.) via particle gun-mediated gene transfer using embryo axes from mature seeds. <b>2008</b> , 27, 1509-19                      | 48  |
| 573 | A low-pressure gene gun for genetic transformation of maize ( <i>Zea mays</i> L.). <b>2008</b> , 2, 267-270   | 6   |
| 572 | Establishment of transgenic acceptor and transformation of barnase gene by particle gun in maize inbred line 18B99 (white). <b>2008</b> , 2, 37-43  | 3   |
| 571 | Nonviral approaches for targeted delivery of plasmid DNA and oligonucleotide. <b>2008</b> , 97, 726-45  | 110 |

|     |   |     |
|-----|---|-----|
| 570 | DNA introduction into living cells by water droplet impact with an electrospray process. <b>2008</b> , 47, 1429-31                                  | 19  |
| 569 | DNA Introduction into Living Cells by Water Droplet Impact with an Electrospray Process. <b>2008</b> , 120, 1451-1453                               | 2   |
| 568 | Micro-scale devices for transdermal drug delivery. <b>2008</b> , 364, 227-36  | 324 |
| 567 | Natural products from plant cell cultures. <b>2008</b> , 329-370  | 5   |
| 566 | Somatic hybrids between transgenic <i>Solanum tuberosum</i> potato plants and transplastome <i>Solanum rickii</i> plants. <b>2008</b> , 42, 246-251 | 1   |
| 565 | Widely separated multiple transgene integration sites in wheat chromosomes are brought together at interphase. <b>2008</b> , 24, 713-723            | 3   |
| 564 | Agrobacterium and Plant Biotechnology. <b>2008</b> , 73-147   | 18  |
| 563 | Common Bean. <b>2008</b> , 1-22   |     |
| 562 | Biotechnology for the production of plant natural products. <b>2008</b> , 34, 309-392   | 3   |
| 561 | Vegetables II. <b>2008</b> ,  | 12  |
| 560 | Genetic Engineering of Plant Cells. <b>2008</b> , 546-625   |     |
| 559 | High-Throughput Functional Screening of Genes In Planta. 113-136  | 4   |
| 558 | Natural Compounds as Drugs Volume I. <b>2008</b> ,  | 5   |
| 557 | Agrobacterium: From Biology to Biotechnology. <b>2008</b> ,   | 34  |
| 556 | Onion. <b>2008</b> , 121-159  | 18  |
| 555 | The scientific roots of modern plant biotechnology. <b>2008</b> , 20, 1189-98   | 44  |
| 554 | Biolistics for high-throughput transformation and RNA interference in <i>Drosophila melanogaster</i> . <b>2008</b> , 2, 247-54                      | 7   |
| 553 | Performance studies of a conical nozzle designed for the macromolecular skin delivery. <b>2008</b> , 16, 206-12                                     | 8   |

|     |  |    |
|-----|--|----|
| 552 | HD-ZIP III activity is modulated by competitive inhibitors via a feedback loop in Arabidopsis shoot apical meristem development. <b>2008</b> , 20, 920-33  | 97 |
| 551 | Shock Wave Based Biolistic Device for DNA and Drug Delivery. <b>2008</b> , 47, 1522-1526   | 10 |
| 550 | Nonviral Gene Delivery Systems. 103-121  | 1  |
| 549 | Alliums. <b>2008</b> , 185-204   | 1  |
| 548 | Transformação genética: estratégias e aplicações para o melhoramento genético de espécies florestais. <b>2008</b> , 38, 861-871  | 3  |
| 547 | Carrot. <b>2008</b> , 135-144  |    |
| 546 | Advances in Agrobacterium-mediated plant transformation with emphasis on soybean. <b>2008</b> , 65, 95-106   | 13 |
| 545 | Cationic gold microparticles for biolistic delivery of nucleic acids. <b>2008</b> , 45, 535-40   | 19 |
| 544 | Alternative vaccine delivery methods. <b>2008</b> , 1357-1392  | 8  |
| 543 | Plants: Genetic Transformation. <b>2009</b> , 1  |    |
| 542 | Gene gun-supported DNA immunisation of chicken for straightforward production of poxvirus-specific IgY antibodies. <b>2009</b> , 341, 146-53   | 19 |
| 541 | Evidence of genotype dependency within Agrobacterium tumefaciens in relation to the integration of vector backbone sequence in transgenic Phytophthora infestans-tolerant potato. <b>2009</b> , 107, 301-6 | 16 |
| 540 | Targeted optical injection of gold nanoparticles into single mammalian cells. <b>2009</b> , 2, 736-43  | 42 |
| 539 | Plasma facilitated delivery of DNA to skin. <b>2009</b> , 104, 1034-40   | 23 |
| 538 | Transient expression of a foreign gene by direct incorporation of DNA into intact plant tissue through vacuum infiltration. <b>2009</b> , 31, 1811-5   | 4  |
| 537 | Protamine-mediated DNA coating remarkably improves bombardment transformation efficiency in plant cells. <b>2009</b> , 28, 213-21  | 53 |
| 536 | Plasmid uptake by bacteria: a comparison of methods and efficiencies. <b>2009</b> , 83, 791-8  | 70 |
| 535 | Physical methods of nucleic acid transfer: general concepts and applications. <b>2009</b> , 157, 207-19  | 91 |



|     |   |      |      |
|-----|---|------|------|
| 534 | Nonviral vectors for gene delivery. <i>Chemical Reviews</i> , <b>2009</b> , 109, 259-302  | 68.1 | 1976 |
| 533 | Biolistic gun-mediated maize genetic transformation. <i>Methods in Molecular Biology</i> , <b>2009</b> , 526, 29-45   | 1.4  | 18   |
| 532 | Self-assembled micronanoplexes for improved biolistic delivery of nucleic acids. <b>2009</b> , 6, 1927-33   |      | 12   |
| 531 | Transfection by particle bombardment: delivery of plasmid DNA into mammalian cells using gene gun. <b>2009</b> , 1790, 754-64   |      | 38   |
| 530 | Transformation of isolated barley ( <i>Hordeum vulgare</i> L.) microspores: II. Timing of pretreatment and temperatures relative to results of bombardment. <b>2009</b> , 52, 175-90            |      | 14   |
| 529 | DNA vaccine therapy for chronic hepatitis C virus (HCV) infection: immune control of a moving target. <b>2009</b> , 9, 805-15   |      | 14   |
| 528 | Transgenic wheat, barley and oats: production and characterization. <i>Methods in Molecular Biology</i> , <b>2009</b> , 478, 3-20   | 1.4  | 9    |
| 527 | Transgenic Applications in Wheat Improvement. 397-435   |      | 7    |
| 526 | Genetics and Genomics of Cotton. <b>2009</b> ,  |      | 12   |
| 525 | References to Volume 1. <b>2009</b> , 309-433   |      |      |
| 524 | Transgenic Wheat, Barley and Oats. <i>Methods in Molecular Biology</i> , <b>2009</b> ,  | 1.4  | 7    |
| 523 | Transfection by Optical Injection. <b>2010</b> , 87-118   |      | 6    |
| 522 | High-throughput transient transformation of Arabidopsis roots enables systematic colocalization analysis of GFP-tagged proteins. <b>2010</b> , 5, 261-3   |      | 11   |
| 521 | Methodologies to increase the transformation efficiencies and the range of bacteria that can be transformed. <b>2010</b> , 85, 1301-13  |      | 85   |
| 520 | Performance analysis of a new biolistic gun using high power laser irradiation. <b>2010</b> , 101, 417-422  |      | 1    |
| 519 | HandyGun: An improved custom-designed, non-vacuum gene gun suitable for virus inoculation. <b>2010</b> , 165, 320-4   |      | 20   |
| 518 | Inoculation of plants with begomoviruses by particle bombardment without cloning: Using rolling circle amplification of total DNA from infected plants and whiteflies. <b>2010</b> , 168, 87-93 |      | 16   |
| 517 | Prevention of bubonic and pneumonic plague using plant-derived vaccines. <b>2010</b> , 28, 184-96   |      | 35   |

|     |  |     |
|-----|--|-----|
| 516 | Nanogold-Loaded Sharp-Edged Carbon Bullets as Plant-Gene Carriers. <b>2010</b> , 20, 2416-2423   | 46  |
| 515 | A history of research on yeasts 14: medical yeasts part 2, <i>Cryptococcus neoformans</i> . <b>2010</b> , 27, 875-904  | 27  |
| 514 | Transformation of coffee ( <i>Coffea Arabica</i> L. cv. Catimor) with the cry1ac gene by biolistic, without the use of markers. <b>2010</b> , 70, 387-93   | 8   |
| 513 | Transformation of <i>Saccharomyces cerevisiae</i> and other fungi: methods and possible underlying mechanism. <b>2010</b> , 1, 395-403   | 124 |
| 512 | Engineering of plants for improved fibre qualities. <b>2010</b> , 150-170  | 1   |
| 511 | Gold nanoparticles delivery in mammalian live cells: a critical review. <b>2010</b> , 1,   | 155 |
| 510 | Plant Secondary Metabolism Engineering: Methods, Strategies, Advances, and Omics. <b>2010</b> , 629-668  | 5   |
| 509 | Perspective for the use of genetic transformants in order to enhance the synthesis of the desired metabolites: Engineering chloroplasts of microalgae for the production of bioactive compounds. <b>2010</b> , 698, 144-51 | 14  |
| 508 | pH-sensitivity of YFP provides an intracellular indicator of programmed cell death. <b>2010</b> , 6, 27  | 27  |
| 507 | Plant Transformation. <b>2010</b> ,  |     |
| 506 | Biolistic injection of microparticles with high-power Nd:YAG laser. <b>2010</b> , 49, 3035-41  | 5   |
| 505 | Transgene Integration, Expression and Stability in Plants: Strategies for Improvements. <b>2010</b> , 201-237  | 18  |
| 504 | Plant Nuclear Transformation. <b>2010</b> , 3-21   | 7   |
| 503 | Plastid Transformation. <b>2010</b> , 23-37  | 3   |
| 502 | Maize. <b>2010</b> , 349-367   | 1   |
| 501 | Vehicles and ways for efficient nuclear transformation in plants. <b>2010</b> , 1, 276-87  | 16  |
| 500 | Does speciation matter for tungsten ecotoxicology?. <b>2010</b> ,  | 58  |
| 499 | Cereal transformation through particle bombardment. <b>1995</b> , 13, 235-64   | 5   |

|     |   |     |
|-----|---|-----|
| 498 | Bio-Farms for Nutraceuticals. <b>2010,</b>  | 7   |
| 497 | Dual targeting of a mitochondrial protein: the case study of cytochrome c1. <b>2011, 4, 679-87</b>  | 19  |
| 496 | Gene Delivery Using Physical Methods. <b>2011, 83-126</b>   | 11  |
| 495 | Visualizing Transgene Expression. <b>2011, 109-119</b>  | 3   |
| 494 | Transposable Elements for Insect Transformation. <b>2011, 90-133</b>  | 1   |
| 493 | Virus-Induced Gene Silencing of Endogenous Genes and Promotion of Flowering in Soybean by Apple latent spherical virus-Based Vectors. <b>2011,</b>  | 7   |
| 492 | Genetic Transformation of Forest Trees. <b>2011,</b>  | 0   |
| 491 | Application of sonication-assisted Agrobacterium-mediated transformation in <i>Chenopodium rubrum</i> L. <b>2011, 49, 255-260</b>                   | 19  |
| 490 | Molecular beacons: powerful tools for imaging RNA in living cells. <b>2011, 2011, 741723</b>  | 42  |
| 489 | Impact of Molecular Genetic Research on Peanut Cultivar Development. <b>2011, 1, 3-17</b>   | 25  |
| 488 | Biolistic co-transformation of the nuclear and plastid genomes. <b>2011, 67, 941-8</b>  | 28  |
| 487 | Genetic transformation of wheat using mature seed tissues. <b>2011, 47, 767-775</b>   | 8   |
| 486 | Genetically manipulated adult stem cells for wound healing. <b>2011, 16, 957-66</b>   | 25  |
| 485 | DNA compaction: fundamentals and applications. <b>2011, 7, 6746</b>   | 136 |
| 484 | Single-step injection of gold nanoparticles through phospholipid membranes. <b>2011, 5, 3585-90</b>   | 70  |
| 483 | <i>Bellis perennis</i> : a useful tool for protein localization studies. <b>2011, 234, 759-68</b>   | 9   |
| 482 | Nano-biostics: a method of biolistic transfection of cells and tissues using a gene gun with novel nanometer-sized projectiles. <b>2011, 11, 66</b> | 47  |
| 481 | Moisture content impacts the stability of DNA adsorbed onto gold microparticles. <b>2011, 100, 4845-54</b>  | 1   |

|     |   |    |
|-----|---|----|
| 480 | Release Properties of Pressurized Microgel Templated Capsules. <b>2011</b> , 21, 1411-1418  | 36 |
| 479 | Isolation and characterization of an oil palm constitutive promoter derived from a translationally control tumor protein (TCTP) gene. <b>2011</b> , 49, 701-8 | 13 |
| 478 | Development of transgenic Phalaenopsis resistant to two viral infections. <b>2011</b> ,   |    |
| 477 | Frutas geneticamente modificadas: técnicas, aplicações, riscos e os potenciais impactos associados a sua utilização. <b>2011</b> , 31, 51-61                  |    |
| 476 | Genetic engineering of ORSV-resistant Phalaenopsis. <b>2011</b> ,   |    |
| 475 | Green-to-red photoconvertible mEosFP-aided live imaging in plants. <b>2012</b> , 504, 163-81  | 7  |
| 474 | Nanosecond laser pulse induced stress waves enhanced magnetofection of human carcinoma cells in vitro. <b>2012</b> , 9, 678-681                               | 5  |
| 473 | Biolistic and other non-Agrobacterium technologies of plant transformation. <b>2012</b> , 117-129   | 6  |
| 472 | Collision of millimetre droplets induces DNA and protein transfection into cells. <b>2012</b> , 2, 289  | 15 |
| 471 | Physical methods for genetic plant transformation. <b>2012</b> , 9, 308-45  | 71 |
| 470 | Shooting Genes, Distributing Credit: Narrating the Development of the Biolistic Gene Gun. <b>2012</b> , 21, 205-232   | 3  |
| 469 | Devices for intradermal vaccination. <b>2012</b> , 30, 523-38   | 67 |
| 468 | Genomics of Chloroplasts and Mitochondria. <b>2012</b> ,  | 26 |
| 467 | Reverse Genetics in Flowering Plant Plastids. <b>2012</b> , 415-441   | 4  |
| 466 | Plastid Transformation in Flowering Plants. <b>2012</b> , 393-414   | 13 |
| 465 | Heterologous gene expression in filamentous fungi. <b>2012</b> , 81, 1-61   | 57 |
| 464 | Development of micro-shock wave assisted dry particle and fluid jet delivery system. <b>2012</b> , 96, 647-62   | 16 |
| 463 | Genetic Manipulation Of Tomato (Lycopersicon Esculentum) Using Wga Gene Through Agrobacterium Mediated Transformation. <b>2012</b> , 8, 36-43                 | 3  |

|     |   |     |    |
|-----|---|-----|----|
| 462 | Recent Advances in Fruit Species Transformation. <b>2012,</b>   |     | 1  |
| 461 | Plasmid DNA could be delivered into Eimeria maxima unsporulated oocyst with gene gun system. <b>2012, 60, 431-40</b>  |     | 3  |
| 460 | Parameters affecting the efficient delivery of mesoporous silica nanoparticle materials and gold nanorods into plant tissues by the biolistic method. <b>2012, 8, 413-22</b>        |     | 52 |
| 459 | History of plant tissue culture. <i>Methods in Molecular Biology, 2012, 877, 9-27</i>   | 1.4 | 14 |
| 458 | The stability and degradation of dietary DNA in the gastrointestinal tract of mammals: implications for horizontal gene transfer and the biosafety of GMOs. <b>2012, 52, 142-61</b> |     | 56 |
| 457 | Metabolic engineering of Rhizopus oryzae for the production of platform chemicals. <b>2012, 94, 875-86</b>  |     | 72 |
| 456 | Investigations on micro-blast wave assisted metal foil forming for biomedical applications. <b>2012, 61, 1-7</b>  |     | 14 |
| 455 | The suppressive function of the rice DELLA protein SLR1 is dependent on its transcriptional activation activity. <b>2012, 71, 443-53</b>  |     | 78 |
| 454 | Biolistic Loading of Voltage-Sensitive Dyes into Cells in Rat Brain Slices for Optical Recording of Neuron Activity. <b>2013, 43, 323-328</b>                                       |     |    |
| 453 | Metabolic Engineering of Plant Cellular Metabolism: Methodologies, Advances, and Future Directions. <b>2013, 359-393</b>  |     | 3  |
| 452 | Jatropha, Challenges for a New Energy Crop. <b>2013,</b>  |     | 9  |
| 451 | Biolistic DNA Delivery. <b>2013,</b>  |     | 4  |
| 450 | Molecular tools for functional genomics in filamentous fungi: recent advances and new strategies. <b>2013, 31, 1562-74</b>  |     | 74 |
| 449 | Legume Genomics. <i>Methods in Molecular Biology, 2013,</i>   | 1.4 | 4  |
| 448 | Fundamental Concepts of Development of Genetically Engineered Plants. <b>2013, 1-15</b>   |     |    |
| 447 | Improvement of peanut (Arachis hypogaea L.) transformation efficiency and determination of transgene copy number by relative quantitative real-time PCR. <b>2013, 49, 266-275</b>   |     | 15 |
| 446 | An efficient cucumber (Cucumis sativus L.) protoplast isolation and transient expression system. <b>2013, 150, 206-212</b>  |     | 48 |
| 445 | Sugarcane Biotechnology: Axenic Culture, Gene Transfer, and Transgene Expression. <b>2013, 645-681</b>  |     | 1  |

|     |  |     |    |
|-----|--|-----|----|
| 444 | Liposome-mediated mycelial transformation of filamentous fungi. <b>2013</b> , 117, 577-83  |     | 8  |
| 443 | Genetic Transformation of <i>Jatropha curcas</i> : Current Status and Future Prospects. <b>2013</b> , 535-546  |     | 8  |
| 442 | Alternative vaccine delivery methods. <b>2013</b> , 1200-1231  |     | 32 |
| 441 | History of Plant Cell Culture. <b>2013</b> , 1-22  |     | 2  |
| 440 | Myocardial gene transfer: routes and devices for regulation of transgene expression by modulation of cellular permeability. <b>2013</b> , 24, 375-92   |     | 12 |
| 439 | Comparison of procedures for DNA coating of micro-carriers in the transient and stable biolistic transformation of sugarcane. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2013</b> , 112, 95-99 | 2.7 | 3  |
| 438 | Biolistic transfection of neurons in organotypic brain slices. <i>Methods in Molecular Biology</i> , <b>2013</b> , 940, 157-66   | 1.4 | 4  |
| 437 | Recombinant DNA Technologies in Food. <b>2013</b> , 503-556  |     | 0  |
| 436 | Human and Animal Health Safety Assessment of Genetically Modified Plants. <b>2013</b> , 43-306   |     |    |
| 435 | Identification of transcription factors involved in rice secondary cell wall formation. <b>2013</b> , 54, 1791-802   |     | 66 |
| 434 | Subcellular localization of transiently expressed fluorescent fusion proteins. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1069, 227-58  | 1.4 | 16 |
| 433 | An experimental study of microneedle-assisted microparticle delivery. <b>2013</b> , 102, 3632-44   |     | 17 |
| 432 | - Next-Generation Sequencing and Assembly of Bacterial Genomes. <b>2013</b> , 390-407  |     | 1  |
| 431 | Bombarding cancer: biolistic delivery of therapeutics using porous Si carriers. <b>2013</b> , 3, 2499  |     | 25 |
| 430 | Genetic transformation of major cereal crops. <b>2013</b> , 57, 495-508  |     | 37 |
| 429 | Current Advances in Seaweed Transformation. <b>2013</b> ,  |     | 7  |
| 428 | Molecular Characterization, Compositional Analysis, and Germination Evaluation of a High-Oleic Soybean Generated by the Suppression of FAD2-1 Expression. <b>2014</b> , 54, 2160-2174                |     | 8  |
| 427 | Intellectual Property in Agriculture. <b>2014</b> , 31-43  |     | 1  |

|     |   |    |
|-----|---|----|
| 426 | The State Agricultural Experiment Station System Meets Biotechnology:A Perspective. <b>2014</b> , 10, 323-327   |    |
| 425 | Broad 4-hydroxyphenylpyruvate dioxygenase inhibitor herbicide tolerance in soybean with an optimized enzyme and expression cassette. <b>2014</b> , 166, 1162-76 | 49 |
| 424 | Barley. <b>2014</b> , 85-120  |    |
| 423 | Transgenic Methodologies IPlants. <b>2014</b> , 289-302   |    |
| 422 | Transgenic barley: a prospective tool for biotechnology and agriculture. <b>2014</b> , 32, 137-57   | 32 |
| 421 | Virus resistance in orchids. <b>2014</b> , 228, 26-38   | 18 |
| 420 | Physical methods for genetic transformation of fungi and yeast. <b>2014</b> , 11, 184-203   | 37 |
| 419 | Biomolecular dynamics and binding studies in the living cell. <b>2014</b> , 11, 1-30  | 27 |
| 418 | Tissue Culture and Regeneration: A Prerequisite for Alien Gene Transfer. <b>2014</b> , 43-75  | 3  |
| 417 | Alien Gene Transfer in Crop Plants, Volume 1. <b>2014</b> ,   | 2  |
| 416 | Engineering the haploid genome of microspores. <b>2014</b> , 3, 20-23   | 19 |
| 415 | Potential of microneedle-assisted micro-particle delivery by gene guns: a review. <b>2014</b> , 21, 571-87  | 33 |
| 414 | Microneedle assisted micro-particle delivery from gene guns: experiments using skin-mimicking agarose gel. <b>2014</b> , 103, 613-27                            | 48 |
| 413 | Physical methods for intracellular delivery: practical aspects from laboratory use to industrial-scale processing. <b>2014</b> , 19, 1-18                       | 67 |
| 412 | A computational framework for simulation of the delivery of substances into cells. <b>2014</b> , 30, 1132-52  | 13 |
| 411 | Micro- and nanotechnologies for intracellular delivery. <b>2014</b> , 10, 4487-504  | 59 |
| 410 | Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. <b>2014</b> , 6, 10264-73                         | 66 |
| 409 | Gold nanoparticles explore cells: cellular uptake and their use as intracellular probes. <b>2014</b> , 68, 354-63   | 53 |

|     |   |       |
|-----|---|-------|
| 408 | Within leaf variation is the largest source of variation in agroinfiltration of <i>Nicotiana benthamiana</i> . <b>2015</b> , 11, 47   | 25    |
| 407 | Effect of Seeding and pH Conditions on the Size and Shape of Au Nanoparticles in Reduction Crystallization. <b>2015</b> , 38, 1068-1072   | 5     |
| 406 | Plant Breeding, Crop Cultivars, and the Nature of Genetic Variability. <b>2015</b> , 69-89  |       |
| 405 | In vitro transformation of pearl millet ( <i>Pennisetum glaucum</i> (L). R. BR.): Selection of chlorsulfuron-resistant plants and long term expression of the gus gene under the control of the emu promoter. <b>2015</b> , 14, 3112-3123                   | 3     |
| 404 | Gene Transfer Technology in Higher Plants. <b>2015</b> , 633-640  |       |
| 403 | Cell Wall Biosynthesis and Its Regulation. <b>2015</b> , 621-683  | 3     |
| 402 | Molecular Approaches to the Management of Pasture Diseases. <b>2015</b> , 533-561   |       |
| 401 | Genetic Transformation of Forage Grasses. <b>2015</b> , 49-58   |       |
| 400 | Use of the Biolistic Particle Delivery System to Transform Fungal Genomes. <b>2015</b> , 129-133  |       |
| 399 | Physical methods of gene transfer: Kinetics of gene delivery into cells: A Review. <b>2015</b> , 36, 61   | 6     |
| 398 | A New Biolistic Intradermal Injector Based on a Miniature Shock Tube. <b>2015</b> , 883-888   | 0     |
| 397 | Genetic Transformation Systems in Fungi, Volume 1. <b>2015</b> ,  | 1     |
| 396 | Magnetic tweezers-based 3D microchannel electroporation for high-throughput gene transfection in living cells. <b>2015</b> , 11, 1818-1828  | 67    |
| 395 | The addition of an organosilicone surfactant to <i>Agrobacterium</i> suspensions enables efficient transient transformation of in vitro grapevine leaf tissue at ambient pressure. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2015</b> , 120, 607-615 | 2.7 8 |
| 394 | A rapid, modular and marker-free chloroplast expression system for the green alga <i>Chlamydomonas reinhardtii</i> . <b>2015</b> , 195, 60-6  | 28    |
| 393 | Physical methods for gene transfer. <b>2015</b> , 89, 1-24  | 24    |
| 392 | Nanomaterial-assisted light-induced poration and transfection of mammalian cells. <b>2015</b> , 331-376   | 3     |
| 391 | Development of <i>Agrobacterium</i> -mediated transient transformation in persimmon ( <i>Diospyros kaki</i> Thunb.). <b>2015</b> , 192, 29-37   | 24    |



|     |   |    |
|-----|---|----|
| 390 | Tissue culture and associated biotechnological interventions for the improvement of coconut ( <i>Cocos nucifera</i> L.): a review. <b>2015</b> , 242, 1059-76 | 27 |
| 389 | Fungal Transformation: From Protoplasts to Targeted Recombination Systems. <b>2015</b> , 3-18   | 3  |
| 388 | Transient transformation of <i>Podosphaera xanthii</i> by electroporation of conidia. <b>2015</b> , 15, 20  | 11 |
| 387 | In Planta Transient Expression Systems for Monocots. <b>2015</b> , 391-422  | 5  |
| 386 | Design and optimization of polymer nanoshuttles for nanomedicine. <b>2015</b> ,   | 1  |
| 385 | Recent Advancements in Gene Expression and Enabling Technologies in Crop Plants. <b>2015</b> ,  | 3  |
| 384 | Electroporation for therapeutic DNA vaccination in patients. <b>2015</b> , 204, 131-5   | 15 |
| 383 | A microarray MEMS device for biolistic delivery of vaccine and drug powders. <b>2015</b> , 11, 1936-44  | 5  |
| 382 | Biotechnological approaches for the genetic improvement of <i>Jatropha curcas</i> L.: A biodiesel plant. <b>2015</b> , 76, 817-828                            | 15 |
| 381 | Alimentos derivados de cultivos genéticamente modificados. ¿Nuevos, seguros para la salud humana, consumidos?. <b>2015</b> , 48, 68-74                        | 2  |
| 380 | Microneedle-assisted microparticle delivery by gene guns: experiments and modeling on the effects of particle characteristics. <b>2015</b> , 22, 335-50       | 9  |
| 379 | A new biolistic intradermal injector. <b>2016</b> , 26, 25-37   | 1  |
| 378 | Transgenic Soybean. <b>2016</b> , 265-302   | 3  |
| 377 | Application of Genomic, Transcriptomic, and Metabolomic Technologies in <i>Arachis</i> Species. <b>2016</b> , 209-240   | 2  |
| 376 | Laser-assisted photoporation: fundamentals, technological advances and applications. <b>2016</b> , 1, 596-620   | 34 |
| 375 | Molecular Tools for Identification of Fungi. <b>2016</b> , 39-60  |    |
| 374 | Gene Expression Systems in Fungi: Advancements and Applications. <b>2016</b> ,  | 7  |
| 373 | Applications and Benefits of Thermophilic Microorganisms and Their Enzymes for Industrial Biotechnology. <b>2016</b> , 459-492                                | 20 |

|     |   |      |     |
|-----|---|------|-----|
| 372 | Transient Expression Systems in Plants: Potentialities and Constraints. <b>2016</b> , 896, 287-301  |      | 18  |
| 371 | In vitro and ex vivo strategies for intracellular delivery. <i>Nature</i> , <b>2016</b> , 538, 183-192  | 50.4 | 489 |
| 370 | Plant Factories for the Production of Monoclonal Antibodies. <b>2016</b> , 81, 1118-1135  |      | 14  |
| 369 | Rice. <b>2016</b> , 27-65   |      | 3   |
| 368 | Broadening the Genetic Base of Grain Cereals. <b>2016</b> ,   |      | 8   |
| 367 | Peptide-derived Method to Transport Genes and Proteins Across Cellular and Organellar Barriers in Plants. <b>2016</b> ,   |      | 9   |
| 366 | An Improved Variant of Soybean Type 1 Diacylglycerol Acyltransferase Increases the Oil Content and Decreases the Soluble Carbohydrate Content of Soybeans. <b>2016</b> , 171, 878-93                                      |      | 54  |
| 365 | Helios(☐) Gene Gun-Mediated Transfection of the Inner Ear Sensory Epithelium: Recent Updates. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1427, 3-26  | 1.4  | 9   |
| 364 | Quantitative characterization of genetic parts and circuits for plant synthetic biology. <b>2016</b> , 13, 94-100   |      | 46  |
| 363 | Genetic engineering for peanut improvement: current status and prospects. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2016</b> , 125, 399-416  | 2.7  | 12  |
| 362 | Plant Tissue Culture: Profile of Pioneers. <b>2016</b> , 141-162  |      |     |
| 361 | The CRISPR-Cas9 technology: Closer to the ultimate toolkit for targeted genome editing. <b>2016</b> , 242, 65-76  |      | 51  |
| 360 | Precise, flexible and affordable gene stacking for crop improvement. <b>2017</b> , 8, 451-456   |      | 8   |
| 359 | Hydrodynamic gene delivery in human skin using a hollow microneedle device. <b>2017</b> , 265, 120-131  |      | 39  |
| 358 | Plant breeding: past, present and future. <b>2017</b> , 213, 1  |      | 31  |
| 357 | Old methods rediscovered: application and improvement of two direct transformation methods to hybrid poplar ( <i>Populus tremula</i> [P. alba]). <i>Plant Cell, Tissue and Organ Culture</i> , <b>2017</b> , 130, 183-196 | 2.7  | 10  |
| 356 | Skin Vaccination Methods: Gene Gun, Jet Injector, Tattoo Vaccine, and Microneedle. <b>2017</b> , 485-499  |      | 7   |
| 355 | Virus Resistance in Orchids. <b>2017</b> , 189-221  |      |     |

|     |   |     |
|-----|---|-----|
| 354 | Nano/micro-scale magnetophoretic devices for biomedical applications. <b>2017</b> , 50, 033002  | 27  |
| 353 | Functionalization of microparticles with mineral coatings enhances non-viral transfection of primary human cells. <b>2017</b> , 7, 14211  | 11  |
| 352 | Physical Methods for Drug and Gene Delivery Through the Cell Plasma Membrane. <b>2017</b> , 227, 73-92  | 7   |
| 351 | Transport Across Natural and Modified Biological Membranes and its Implications in Physiology and Therapy. <b>2017</b> ,  | 2   |
| 350 | Nonintegrating Gene Therapy Vectors. <b>2017</b> , 31, 753-770  | 57  |
| 349 | Tools for translation: non-viral materials for therapeutic mRNA delivery. <b>2017</b> , 2,  | 289 |
| 348 | Mechanism of transformation in Mycobacteria using a novel shockwave assisted technique driven by in-situ generated oxyhydrogen. <b>2017</b> , 7, 8645   | 10  |
| 347 | Biotechnological Interventions for Improvement of Plant Nutritional Value: From Mechanisms to Applications. <b>2017</b> , 83-111  |     |
| 346 | Ballistic Penetration of Highly Charged Nanoaerosol Particles through a Lipid Monolayer. <b>2017</b> , 33, 7829-7837  | 2   |
| 345 | Particle size distribution control of Pt particles used for particle gun. <b>2017</b> , 469, 180-183  |     |
| 344 | Nuclear Transformation and Toolbox Development. <b>2017</b> , 27-58   |     |
| 343 | Chlamydomonas: Molecular Genetics and Physiology. <b>2017</b> ,   | 2   |
| 342 | Insights into the mechanism of a novel shockwave-assisted needle-free drug delivery device driven by in situ-generated oxyhydrogen mixture which provides efficient protection against mycobacterial infections. <b>2017</b> , 11, 48 | 3   |
| 341 | Current status and perspectives of genome editing technology for microalgae. <b>2017</b> , 10, 267  | 65  |
| 340 | Plant-Based Peroral Vaccines. <b>2017</b> , 193-210   |     |
| 339 | Transposable Elements for Insect Transformation ?. <b>2017</b> ,  |     |
| 338 | Ballistic impact response of lipid membranes. <b>2018</b> , 10, 4761-4770   | 8   |
| 337 | Nanoparticle-Mediated Delivery towards Advancing Plant Genetic Engineering. <b>2018</b> , 36, 882-897   | 194 |

|     |   |          |
|-----|---|----------|
| 336 | Crop Improvement Using Genome Editing. <b>2018</b> , 55-101   | 3        |
| 335 | A Low-Backpressure Single-Cell Point Constriction for Cytosolic Delivery Based on Rapid Membrane Deformations. <b>2018</b> , 90, 1836-1844          | 11       |
| 334 | Shock wave-induced permeabilization of mammalian cells. <b>2018</b> , 26-27, 1-38   | 15       |
| 333 | Metagenomic-based impact study of transgenic grapevine rootstock on its associated virome and soil bacteriome. <b>2018</b> , 16, 208-220            | 14       |
| 332 | Genetic transformation of cell-walled plant and algae cells: delivering DNA through the cell wall. <b>2018</b> , 17, 26-33                          | 13       |
| 331 | Chloroplast Genetic Engineering for Enhanced Agronomic Traits and Expression of Proteins for Medical/Industrial Applications. <b>2018</b> , 283-320 | 2        |
| 330 | A Review on Electroporation-Based Intracellular Delivery. <b>2018</b> , 23,   | 93       |
| 329 | Functional Characterization of Cryptococcal Genes: Then and Now. <b>2018</b> , 9, 2263  | 1        |
| 328 | Rational Design Principles for the Transport and Subcellular Distribution of Nanomaterials into Plant Protoplasts. <b>2018</b> , 14, e1802086       | 52       |
| 327 | Genetic Transformation in Eucalyptus. <b>2018</b> , 335-366   | 1        |
| 326 | Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. <i>Chemical Reviews</i> , <b>2018</b> , 118, 7409-7531         | 68.1 280 |
| 325 | Genetic Engineering in Papaya. <b>2018</b> , 137-154  | 1        |
| 324 | Transgenic Crops: Status, Potential, and Challenges. <b>2018</b> , 451-485  | 6        |
| 323 | Genetic Manipulation of <i>Cryptococcus neoformans</i> . <b>2018</b> , 50, e59  | 7        |
| 322 | Plant Genetic Transformation and Transgenic Crops: Methods and Applications. <b>2018</b> , 1-23   | 4        |
| 321 | Biotechnology in Food Processing and Preservation: An Overview. <b>2018</b> , 27-54   | 4        |
| 320 | Transient Heterologous Gene Expression Methods for Poison Ivy Leaf and Cotyledon Tissues. <b>2018</b> , 53, 242-246                                 | 2        |
| 319 | Progress in the genetic engineering of cereals to produce essential polyunsaturated fatty acids. <b>2018</b> , 284, 115-122                         | 15       |

|     |  |     |     |
|-----|--|-----|-----|
| 318 | High-velocity micro-particle impact on gelatin and synthetic hydrogel. <b>2018</b> , 86, 71-76   |     | 20  |
| 317 | History of Plant Biotechnology Development. <b>2018</b> , 3-37   |     |     |
| 316 | Techniques for Nucleic Acid Engineering. <b>2018</b> , 247-315   |     | 4   |
| 315 | Creating Products and Services in Plant Biotechnology. <b>2019</b> , 19-52   |     | 2   |
| 314 | Nucleic Acid-Based Therapy: Development of a Nonviral-Based Delivery Approach. <b>2019</b> ,   |     |     |
| 313 | Uniform Expression and Relatively Small Position Effects Characterize Sister Transformants in Maize and Soybean. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1209        | 6.2 | 10  |
| 312 | Edit at will: Genotype independent plant transformation in the era of advanced genomics and genome editing. <b>2019</b> , 281, 186-205   |     | 38  |
| 311 | Citrus Tristeza Virus. <i>Methods in Molecular Biology</i> , <b>2019</b> ,   | 1.4 | 0   |
| 310 | Genetic Improvement of Grapevine: Tailoring Grape Varieties for The Third Millennium - A Review. <b>2019</b> , 21,   |     | 1   |
| 309 | Crop research, biotech canola, and innovation policy in Canada: Challenges, opportunities, and evolution. <b>2019</b> , 67, 135-150  |     | 1   |
| 308 | Genetic Engineering of Carrot. <b>2019</b> , 149-186   |     | 6   |
| 307 | Emerging areas of bone repair materials. <b>2019</b> , 411-446   |     | 2   |
| 306 | Genetic Engineering in Coffee. <b>2019</b> , 447-488   |     | 1   |
| 305 | High aspect ratio nanomaterials enable delivery of functional genetic material without DNA integration in mature plants. <b>2019</b> , 14, 456-464                                 |     | 228 |
| 304 | Ex vivo dendritic cell generation-A critical comparison of current approaches. <b>2019</b> , 349, 251-307  |     | 5   |
| 303 | 9. Chloroplast genetic engineering: Concept and industrial applications. <b>2019</b> , 173-204   |     |     |
| 302 | Carbon nanotube-mediated DNA delivery without transgene integration in intact plants. <b>2019</b> , 14, 2954-2971  |     | 67  |
| 301 | Repurposing Macromolecule Delivery Tools for Plant Genetic Modification in the Era of Precision Genome Engineering. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1864, 3-18 | 1.4 | 12  |

|     |   |       |
|-----|---|-------|
| 300 | Production of eicosapentaenoic acid (EPA, 20:5n-3) in transgenic peanut ( <i>Arachis hypogaea</i> L.) through the alternative $\delta$ -desaturase pathway. <b>2019</b> , 46, 333-342 | 5     |
| 299 | Bibliography. <b>2019</b> , 497-718   | 1     |
| 298 | Development and commercialization of reduced lignin alfalfa. <b>2019</b> , 56, 48-54  | 35    |
| 297 | Exploration of expression activity of subgenomic RNA promoter of coat protein gene from <i>Odontoglossum ringspot</i> virus. <b>2020</b> , 29, 67-77                                  |       |
| 296 | The Duckweed Genomes. <b>2020</b> ,   | 1     |
| 295 | Particle bombardment technology and its applications in plants. <b>2020</b> , 47, 9831-9847   | 10    |
| 294 | Molecular tools and applications of <i>Euglena gracilis</i> : From biorefineries to bioremediation. <b>2020</b> , 117, 3952-3967  | 7     |
| 293 | An efficient genetic transformation system for Chinese medicine fungus <i>Tolypocladium ophioglossoides</i> . <b>2020</b> , 176, 106032   | 2     |
| 292 | Environmental Microbiology and Biotechnology. <b>2020</b> ,   | 0     |
| 291 | Complete genome sequences of two novel genotypes of Citrus tristeza virus infecting <i>Poncirus trifoliata</i> in China. <b>2020</b> , 102, 903-907                                   | 4     |
| 290 | PEGylated Amine-Functionalized Poly( $\epsilon$ -caprolactone) for the Delivery of Plasmid DNA. <b>2020</b> , 13,   | 4     |
| 289 | Management of yellow dwarf disease in Europe in a post-neonicotinoid agriculture. <b>2020</b> , 76, 2276-2285   | 4     |
| 288 | Biolytic DNA Delivery in Plants. <i>Methods in Molecular Biology</i> , <b>2020</b> ,  | 1.4 2 |
| 287 | Enabling Transgenic Plant Cell-Derived Biomedicines with Nanotechnology. <b>2021</b> , 1, 2000028   |       |
| 286 | Advanced microfluidic devices for cell electroporation and manipulation. <b>2021</b> , 105-123  | 0     |
| 285 | Genome Engineering for Nutritional Improvement in Pulses. <b>2021</b> , 157-180   | 1     |
| 284 | Genetic Improvement of Leek ( <i>Allium ampeloprasum</i> L.). <b>2021</b> , 51-97   |       |
| 283 | History of plant cell culture. <b>2021</b> , 1-23   |       |

|     |  |       |
|-----|--|-------|
| 282 | A Comprehensive Review on Intracellular Delivery. <b>2021</b> , 33, e2005363   | 13    |
| 281 | Introducing Electrospray as a Potent Technique to Deliver Chitosan/pDNA Nanoparticles to Eukaryotic Cells. 66, 73-84   |       |
| 280 | High-velocity micro-projectile impact testing. <b>2021</b> , 8, 011319   | 14    |
| 279 | Fusion Peptide-Based Biomacromolecule Delivery System for Plant Cells. <b>2021</b> , 7, 2246-2254  | 2     |
| 278 | Evolutionary Timeline of Genetic Delivery and Gene Therapy. <i>Current Gene Therapy</i> , <b>2021</b> , 21, 89-111   | 4-3 1 |
| 277 | An improved biolistic delivery and analysis method for evaluation of DNA and CRISPR-Cas delivery efficacy in plant tissue. <b>2021</b> , 11, 7695                                  | 7     |
| 276 | Prospects for Molecular Breeding in Cotton, <i>Gossypium</i> spp.  | 2     |
| 275 | Agrobacterium-Mediated Transient Transformation of Marchantia Liverworts.  | 0     |
| 274 | Microfluidic Based Physical Approaches towards Single-Cell Intracellular Delivery and Analysis. <b>2021</b> , 12,  | 2     |
| 273 | History of plant genetic mutations – human influences. <b>2021</b> , 57, 554   | 0     |
| 272 | Maize transformation: history, progress, and perspectives. <b>2021</b> , 41, 1   | 6     |
| 271 | Biotechnological Resources to Increase Disease-Resistance by Improving Plant Immunity: A Sustainable Approach to Save Cereal Crop Production. <b>2021</b> , 10,                    | 6     |
| 270 | Genome editing for resistance against plant pests and pathogens. <b>2021</b> , 30, 427-459   | 6     |
| 269 | A review of the tortuous path of nonviral gene delivery and recent progress. <b>2021</b> , 183, 2055-2073  | 5     |
| 268 | Agrobacterium-Mediated Transient Transformation of Marchantia Liverworts. <b>2021</b> , 62, 1718-1727  | 2     |
| 267 | Sonoporation: Past, Present, and Future.. <b>2022</b> , 7,   | 4     |
| 266 | Development of novel gene carrier using modified nano hydroxyapatite derived from equine bone for osteogenic differentiation of dental pulp stem cells. <b>2021</b> , 6, 2742-2751 | 5     |
| 265 | Using a Hand-Held Gene Gun for Genetic Transformation of <i>Tetrahymena thermophila</i> . <i>Methods in Molecular Biology</i> , <b>2022</b> , 2364, 349-361                        | 1.4 0 |

|     |   |     |    |
|-----|---|-----|----|
| 264 | Optimization of intracellular macromolecule delivery by nanoparticle-mediated photoporation. <b>2021</b> , 37, 102431                                     |     | 1  |
| 263 | TALE and TALEN genome editing technologies. <b>2021</b> , 2, 100007   |     | 9  |
| 262 | Genetic Manipulation for Developing Desired Engineered Oil Crops. <b>2021</b> , 353-366   |     |    |
| 261 | Ionic liquids: prospects for nucleic acid handling and delivery. <b>2021</b> , 49, 1201-1234  |     | 7  |
| 260 | Plant Transformation Technology: Particle Bombardment.  |     | 3  |
| 259 | Delivery. 167-210   |     | 2  |
| 258 | Inoculation of plants using bombardment. <b>2006</b> , Chapter 16, Unit16B.3  |     | 3  |
| 257 | Monocot Expression Systems for Molecular Farming. 55  |     | 3  |
| 256 | Somatic Embryogenesis and Genetic Transformation in <i>Pinus radiata</i> . <b>2005</b> , 11-24  |     | 17 |
| 255 | Neuronal Transfection Using Particle-Mediated Gene Transfer. <b>2002</b> , 67-84  |     | 5  |
| 254 | Engineering the D1 Subunit of Photosystem II. <b>2006</b> , 46-56   |     | 2  |
| 253 | Genetic Engineering of Cotton. <b>2009</b> , 187-207  |     | 6  |
| 252 | Maize Transformation. <b>2009</b> , 609-639   |     | 10 |
| 251 | Genetic Transformation of Common Wheat ( <i>Triticum aestivum</i> L.) Using Biolistics. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2124, 229-250 | 1.4 | 2  |
| 250 | A Short History and Perspectives on Plant Genetic Transformation. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2124, 39-68                         | 1.4 | 8  |
| 249 | Biolistic Approach for Transient Gene Expression Studies in Plants. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2124, 125-139                     | 1.4 | 9  |
| 248 | Nanobiolistics: An Emerging Genetic Transformation Approach. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2124, 141-159                            | 1.4 | 2  |
| 247 | Genetic Transformation of <i>Allium Cepa</i> Mediated by <i>Agrobacterium Tumefaciens</i> . <b>2004</b> , 281-290   |     | 2  |



|     |  |     |    |
|-----|--|-----|----|
| 246 | Transgenic Arabidopsis. <b>1988</b> , 175-200  |     | 5  |
| 245 | Transient gene expression of chimeric genes in cells and tissues of crops. <b>1991</b> , 17, 143-66  |     | 2  |
| 244 | Foreign DNA: integration and expression in transgenic plants. <b>2002</b> , 24, 107-36   |     | 12 |
| 243 | Transformation of Cereals. <b>1999</b> , 113-157   |     | 3  |
| 242 | Advances in Direct Gene Transfer into Cereals. <b>1989</b> , 13-31   |     | 2  |
| 241 | Gene Transfer via Particle Bombardment: Applications of the Accell Gene Gun. <b>1994</b> , 193-209   |     | 6  |
| 240 | Transformation and Regeneration of Important Crop Plants: Rice as the Model System for Monocots. <b>1990</b> , 251-263   |     | 4  |
| 239 | Genetic Transformation of Maize Cells by Particle Bombardment and the Influence of Methylation on Foreign-Gene Expression. <b>1990</b> , 265-288               |     | 8  |
| 238 | Genetic engineering of an insect parasite. <b>1996</b> , 18, 135-55  |     | 4  |
| 237 | A Needleless Liquid Jet Injection Delivery Approach for Cardiac Gene Therapy. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1521, 219-226                | 1.4 | 2  |
| 236 | Gene Expression in Citrus Plant Cells Using Helios Gene Gun System for Particle Bombardment. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2015, 219-228 | 1.4 | 4  |
| 235 | Helios Gene Gun-mediated transfection of the inner ear sensory epithelium. <i>Methods in Molecular Biology</i> , <b>2009</b> , 493, 103-23                     | 1.4 | 22 |
| 234 | HandGun-mediated inoculation of plants with viral pathogens for mechanistic studies. <i>Methods in Molecular Biology</i> , <b>2013</b> , 940, 53-62            | 1.4 | 3  |
| 233 | The gene-gun approach for transfection and labeling of cells in brain slices. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1018, 111-8                  | 1.4 | 7  |
| 232 | Transformation Development in Duckweeds. <b>2020</b> , 143-155   |     | 2  |
| 231 | Non-viral Vectors for Gene Therapy. <b>2020</b> , 23-37  |     | 2  |
| 230 | Genetic and Metabolic Engineering of Microalgae. <b>2016</b> , 317-344   |     | 3  |
| 229 | Genetically Modified Crops. <b>2016</b> , 561-590  |     | 1  |

|     |  |    |
|-----|--|----|
| 228 | Methods of Permeabilization. <b>2016</b> , 129-200   | 2  |
| 227 | History of Plant Biotechnology Development. <b>2018</b> , 1-35   | 2  |
| 226 | Regulation of alpha-zein gene expression during maize endosperm development. <b>1994</b> , 20, 209-33                              | 10 |
| 225 | Maize Tissue Culture and Transformation: The First 20 Years. <b>2009</b> , 7-27  | 8  |
| 224 | Extranuclear Inheritance: Plastid Genetics: Manipulation of Plastid Genomes and Biotechnological Applications. <b>2000</b> , 76-90 | 12 |
| 223 | Genetic Transformation in Dendrobium (Orchid). <b>1995</b> , 145-155   | 1  |
| 222 | Transformation of Maize Protoplasts. <b>1994</b> , 217-240   | 1  |
| 221 | Transgenic Pearl Millet ( <i>Pennisetum glaucum</i> ). <b>2000</b> , 84-108  | 11 |
| 220 | Protoplast-Independent Production of Transgenic Plants. <b>1998</b> , 127-146  | 1  |
| 219 | Direct Gene Transfer in Protoplasts of <i>Nicotiana plumbaginifolia</i> . <b>1989</b> , 217-227                                    | 1  |
| 218 | Uptake of Viruses by Plant Protoplasts and Their Use as Transforming Agents. <b>1989</b> , 388-405                                 | 1  |
| 217 | Uptake and Integration of Exogenous DNA in Plants. <b>1989</b> , 54-74   | 2  |
| 216 | Phy-Genes Structure, Evolution, and Expression. <b>1991</b> , 13-38  | 12 |
| 215 | Transformation of Tobacco ( <i>Nicotiana clevelandii</i> and <i>N. Benthamiana</i> ). <b>1993</b> , 290-301                        | 1  |
| 214 | Biolistic-Based Analysis of Chloroplast Gene Expression. <b>1995</b> , 162-169   | 1  |
| 213 | Genotoxic Effects of Tungsten Microparticles Under Conditions of Biolistic Transformation. <b>2003</b> , 175-193                   | 1  |
| 212 | Transformation of Norway Spruce ( <i>Picea abies</i> ) by Particle Bombardment. <b>2003</b> , 127-146                              | 4  |
| 211 | Genetic Transformation in <i>Avena sativa</i> L. (Oat). <b>1996</b> , 178-190  | 4  |

|     |   |    |
|-----|---|----|
| 210 | Liquid and Powder Jet Injectors in Drug Delivery: Mechanisms, Designs, and Applications. <b>2017</b> , 221-230  | 2  |
| 209 | Organelle Genetics and Transformation of Chlamydomonas. <b>1992</b> , 3-64  | 25 |
| 208 | Transformation of pollen by particle bombardment. <b>1991</b> , 631-644   | 1  |
| 207 | Manipulating the Chloroplast Genome of Chlamydomonas [Molecular Genetics and Transformation. <b>1990</b> , 2415-2422  | 3  |
| 206 | Genetic Transformation and Plant Improvement. <b>1990</b> , 299-337   | 6  |
| 205 | Gene Transfer to Barley. <b>1990</b> , 73-78  | 8  |
| 204 | Transformation of Pollen. <b>1990</b> , 244-251   | 9  |
| 203 | Strategies for variety-independent genetic transformation of important cereals, legumes and woody species utilizing particle bombardment. <b>1995</b> , 13-27 | 1  |
| 202 | Gene transfer to plants via particle bombardment. <b>1994</b> , 17-31   | 2  |
| 201 | Gene Replacement in Plants. <b>1994</b> , 191-217   | 5  |
| 200 | Strategies and Tactics for Cloning Genes, Coding for Lipase, from Higher Plants. <b>1992</b> , 373-381  | 1  |
| 199 | Routes to the Development of Disease Resistant Ornamentals. <b>1991</b> , 387-417   | 3  |
| 198 | Foreign Gene Expression in Pinus nigra, P. radiata and P. pinea Following Particle Bombardment. <b>1996</b> , 113-117   | 2  |
| 197 | Transgenic Cereals: Avena sativa (oat). <b>1999</b> , 317-339   | 1  |
| 196 | Genetics of micropropagated woody plants. <b>1993</b> , 121-152   | 3  |
| 195 | Particle Gun Methodology as a Tool in Metabolic Engineering. <b>2000</b> , 69-86  | 2  |
| 194 | Recent Advances in Soybean Transformation. <b>2003</b> , 3-21   | 3  |
| 193 | Genetic transformation of wheat via pollen 25 Years of plant transformation attempts II. <b>1996</b> , 393-409  | 1  |

|     |  |    |
|-----|--|----|
| 192 | Gene Transfer to Plants. <b>2002</b> , 155-196   | 16 |
| 191 | Haploidy in barley. <b>1997</b> , 99-115   | 5  |
| 190 | Gene Transfer Techniques and their relevance to Woody Plants. <b>2000</b> , 1-24   | 2  |
| 189 | Transformation of Picea Species. <b>2000</b> , 105-118   | 3  |
| 188 | Progress towards the Genetic Transformation of Four Tropical Acacia Species: Acacia Mangium, Acacia Crassiparpa, Acacia Mearnsii and Acacia Albida. <b>2000</b> , 161-178                                    | 2  |
| 187 | Molecular biology of orchids. <b>1997</b> , 75-115   | 1  |
| 186 | Plant Transformation. <b>1994</b> , 231-270  | 13 |
| 185 | Direct DNA transfer into intact plant cells and recovery of transgenic plants via microprojectile bombardment. <b>1990</b> , 33-54   | 2  |
| 184 | Chitosan-Based Systems for Gene Delivery. <b>2019</b> , 229-267  | 5  |
| 183 | Efficient transformation of papaya by coat protein gene of papaya ringspot virus mediated by Agrobacterium following liquid-phase wounding of embryogenic tissues with carbon dioxide. <b>1996</b> , 16, 127 | 6  |
| 182 | Plant Genetic Transformation. <b>1992</b> , 151-182  | 4  |
| 181 | Vectors for Gene Transfer in Higher Plants. <b>1993</b> , 15-48  | 3  |
| 180 | Techniques for Gene Transfer. <b>1993</b> , 125-146  | 5  |
| 179 | Transgenic Plants from Legumes. <b>1993</b> , 79-102   | 1  |
| 178 | Transgenic Woody Plants. <b>1993</b> , 129-151   | 1  |
| 177 | Transgenic Cotton. <b>1993</b> , 153-168   | 2  |
| 176 | Plant Gene Vectors and Genetic Transformation: DNA-Mediated Direct Gene Transfer to Plants. <b>1989</b> , 51-68  | 3  |
| 175 | Coupling Factor Components: Structure and Function. <b>1991</b> , 225-254  | 1  |

|     |   |     |
|-----|---|-----|
| 174 | REGENERATION AND TRANSFORMATION OF APPLE AND STRAWBERRY USING DISARMED Ti-BINARY VECTORS. <b>1990</b> , 239-248   | 6   |
| 173 | The Current Status of Plant Tissue Culture. <b>1990</b> , 1-33  | 12  |
| 172 | Gene Therapy in Tissue Engineering. <b>1998</b> , 278-310   | 1   |
| 171 | Fluorescence and Luminescence Techniques to Probe Ion Activities in Living Plant Cells. <b>1999</b> , 569-596   | 27  |
| 170 | Widely separated multiple transgene integration sites in wheat chromosomes are brought together at interphase. <b>2000</b> , 24, 713-23                     | 51  |
| 169 | Creation of low-copy integrated transgenic lines in <i>Caenorhabditis elegans</i> . <b>2001</b> , 157, 1217-26  | 691 |
| 168 | High Aspect Ratio Nanomaterials Enable Delivery of Functional Genetic Material Without DNA Integration in Mature Plants.                                    | 12  |
| 167 | DNA Nanostructures Coordinate Gene Silencing in Mature Plants.  | 1   |
| 166 | Gene delivery to skin using biolistics. <b>2006</b> , 2006,   | 1   |
| 165 | Biolistic transformation of a prokaryote, <i>Bacillus megaterium</i> . <b>1991</b> , 57, 480-5  | 47  |
| 164 | Transgenic Linseed Flax. <b>2002</b> ,  | 2   |
| 163 | Genetic Transformation of Pea by Microprojectile Bombardment. <b>2008</b> , 203-215   | 2   |
| 162 | A dominant mutation in the maize homeobox gene, <i>Knotted-1</i> , causes its ectopic expression in leaf cells with altered fates. <b>1992</b> , 116, 21-30 | 295 |
| 161 | Laser plasma jet driven microparticles for DNA/drug delivery. <b>2012</b> , 7, e50823   | 16  |
| 160 | Section Review: Biologicals & Immunologicals: Gene therapy as a treatment for rheumatoid arthritis. <b>1995</b> , 4, 843-852                                | 6   |
| 159 | STARCH SYNTHESIS IN TRANSGENIC PLANTS. <b>1993</b> , 33-39  | 1   |
| 158 | PLANT TRANSFORMATION: ADVANCES AND PERSPECTIVES. <b>1999</b> , 56, 1-8  | 14  |
| 157 | Possible orthopaedic applications of gene therapy. <b>1995</b> , 77, 1103-14  | 162 |

|     |  |   |
|-----|--|---|
| 156 | Synthetic Animal: Trends in Animal Breeding and Genetics. <b>2019</b> , 3, 007-025   | 1 |
| 155 | Transformation, and inducing Inducing and of High-frequency Frequency Regeneration of Embryogenic Callus Initiated from Mature Embryos of Maize ( <i>Zea mays</i> L.). <b>2008</b> , 34, 423-428 | 1 |
| 154 | Stable Transformation and Recovery of Transgenic Plants by Particle Bombardment in <i>Pinus wallichiana</i> A.B. Jacks (Himalayan Blue Pine). <b>2006</b> , 6, 105-111                           | 3 |
| 153 | Novel Micropropagation System. <b>2001</b> , 1, 1106-1111  | 3 |
| 152 | Gene therapy: principles and clinical applications in orthopedics. <b>2004</b> , 27, 294-303; quiz 304-5   | 8 |
| 151 | Efficient plastid transformation in tobacco using small gold particles (0.07 $\mu$ m; 0.3 $\mu$ m). <b>2013</b> , 30, 65-72  | 7 |
| 150 | Tissue culture protocols for gene transfer and editing in maize (L.). <b>2020</b> , 37, 121-128  | 2 |
| 149 | Particle bombardment and subcellular protein localization analysis in the aquatic plant. <b>2017</b> , 5, e3779  | 9 |
| 148 | Nanotechnology Strategies for Plant Genetic Engineering. <b>2021</b> , e2106945  | 6 |
| 147 | Agroinfiltration Mediated Scalable Transient Gene Expression in Genome Edited Crop Plants. <b>2021</b> , 22,   | 4 |
| 146 | Molecular Genetics of Ectomycorrhizal Fungi. <b>2000</b> , 119-134   |   |
| 145 | Genetic Transformation of <i>Casuarina glauca</i> . <b>2000</b> , 15-28  |   |
| 144 | Lebergentherapie: Aktueller Stand und Ausblick. <b>2001</b> , 391-459  |   |
| 143 | Gene Transfer Strategies in Tissue Repair. <b>2001</b> , 117-137   |   |
| 142 | Biochemical Genetics. <b>2001</b> , 1473-1527  |   |
| 141 | Novel Micropropagation System: A Review. <b>2001</b> , 4, 117-120  | 1 |
| 140 | Transgenic Plants. <b>2001</b> , 627-659   |   |
| 139 | Genetic Engineering of Plant Cells. <b>2001</b> , 546-625  |   |

138 Biotechnology for Phytomonitoring. **2002**, 141-151

137 Chromosomal and Genetic Aberrations in Transgenic Soybean. **2002**, 153-168

136 Tools of genetic engineering in plants. **2002**, 3-22

135 References. **2002**, 385-442

134 Regeneration and Genetic Transformation of Tree Legumes with Special Reference to Albizzia Species. **2003**, 285-300

133 Genetic Transformation of Common Bean Via Particle Bombardment. **2003**, 35-45

132 Microprojectile-Mediated Transformation of Peanut. **2003**, 187-204

131 Transformation of Plants.

130 Genetic Engineering, Plants.

129 Device-Mediated Gene Delivery. **2003**,

128 Genetic Engineering.

127 Transformation of Cauliflower. **2004**, 389-402

126 Genetic Engineering Experiments: Design and Selection of Candidate Genes. **2004**, 1-5

125 Genetic Engineering of Soybean. **2004**,

124 Biolistic Transformation (Biological-Ballistic).

123 Transposable Elements for Insect Transformation. **2005**, 437-474

122 Transfecting and Transducing Neurons with Synthetic Nucleic Acids and Biologically Active Macromolecules. **2006**, 205-239

121 GM patent rejected after 13 years. *Nature*,

50.4

- 120 Transgenic Plants. 627-659
- 119 Genetic Transformation of Crops for Resistance to Insect Pests. **2008**, 208-254
- 118 A survey of the genetic components introduced into approved GM crops. **2009**, 36, 106-114
- 117 Shock waves for ballistic delivery of DNA droplets into living cells. **2009**, 1, 111-116
- 116 Gene Silencing. **2010**, 631-652
- 115 Culture Establishment, Plant Cell.
- 114 New Drug Delivery System Based on a Laser-Induced Shockwave. **2010**, 34, 67-71
- 113 Advances in Achieving the Needs for Biotechnologically-Derived Herbicide Resistant Crops. 155-198
- 112 Das Einführen von DNA in lebende Zellen. **2011**, 65-78
- 111 Historical Perspective. 1-34
- 110 Crop Plants Crop Plants plants Transformation Methods crop/cropping plants transformation methods. **2012**, 2583-2615 0
- 109 Sustainable Food Production. **2013**, 558-590
- 108 Genetically-Modified Organisms in United States Agriculture: Mandate for Food Labeling. **2013**, 04, 807-811 1
- 107 Genetic Engineering of Plants. **1988**, 182-211
- 106 Genetic Engineering of Plants. **1988**, 182-211
- 105 Genetic Manipulation of Plant Cells and Organelles with a Laser Microbeam. **1988**, 319-322 1
- 104 Fate of Foreign DNA Introduced to Plant Cells. **1989**, 145-157 1
- 103 Biotechnology in the Flavor and Food Industry A Scientific Starting Point. **1989**, 1-11



102 Transformation of plant pathogenic fungi. **1989**, 195-207

101 DNA Recombinants and Transformation of Agricultural Crops. **1989**, 75-98

100 Extranuclear Inheritance: Plastid Genetics. **1989**, 237-250

99 Approaches to Gene Therapy in the CNS: Intracerebral Grafting of Fibroblasts Genetically Modified to Secrete Nerve Growth Factor. **1989**, 95-101

98 Genetic Engineering of Crop Plants. **1990**, 19, 346-365

1

97 Potential Transformation Systems in *Dactylis Glomerata*. **1990**, 339-344

96 Review Techniques in plant molecular biology [progress and problems. **1990**, 185-198

95 Transgenic Plants. **1990**, 237-250

1

94 The Production of Useful Proteins from Transgenic Plants. **1990**, 159-168

93 Biotechnology in Forest Tree Improvement: Trees of the Future. **1990**, 311-318

6

92 Potentials of woody plant transformation. **1991**, 17, 81-105

1

91 Prospects, perspectives, and problems of plant genetic engineering. **1991**, 17, 1-30

90 Genetic manipulation of male gametophytic generation in higher plants. **1991**, 17, 107-42

1

89 Gene transfer to plants. **1991**, 38-81

88 Using polymerase chain reaction to identify transgenic plants. **1991**, 57-84

0

87 Plant gene structure and expression. **1991**, 1-37

86 Plant gene structure and expression. **1991**, 1-37

85 Gene transfer to plants. **1991**, 38-81

0

- 84 Transient Expression and Stable Transformation of Maize Using Microprojectiles. **1991**, 219-224
- 83 Molecular Analysis of Rice Genes and Methods for Gene Transfer. **1991**, 422-446
- 82 Genetic Engineering of Plants and Cultures. **1992**, 223-257 3
- 81 Biotechnology in Reproductive Biology. **1992**, 340-346
- 80 Pollen Electrotransformation for Gene Transfer in Plants. **1992**, 227-247 1
- 79 Culture, regeneration and transformation of barley protoplasts. **1992**, 13-25
- 78 Culture, regeneration and transformation of barley protoplasts. **1992**, 367-377
- 77 Chairman's Introduction Structure and Organization of Plastid Genes and the Features of their Expression. **1992**, 1-8
- 76 Transformation of *Stylosanthes* Species. **1993**, 361-374
- 75 Concepts and strategies for human gene therapy. **1993**, 165-179
- 74 Gene cloning and identification. **1993**, 107-125
- 73 Transgenic Maize. **1993**, 21-33
- 72 Transformation in Soybean (*Glycine max* L.). **1993**, 228-236
- 71 Regeneration of Plants from Protoplasts of *Picea* Species (Spruce). **1994**, 115-130
- 70 Delivery of Polynucleotides to Hepatocytes. **1994**, 511-537
- 69 References. **1994**, 138-154
- 68 Transformation of Maize Through Particle Bombardment. **1994**, 241-251
- 67 Production of Transgenic Poultry and Fish. **1994**, 279-313 1

66 Transgenic Maize by Electroporation of Pectolyase-Treated Suspension Culture Cells. **1994**, 559-565

65 Analysis of the 5'-Upstream Region of the Chloroplast RNA Polymerase Gene (rpoB). **1995**, 2539-2542

64 In vivo Gentransfer mit epidermalen Wachstumsfaktor beschleunigt die Wundheilung von Spalthautwunden im Kammermodell am Schwein. **1995**, 691-694

63 Application of Electroporation in Recombinant DNA Technology. **1995**, 467-484

62 Transformation of Soybean (Glycine max) Through Electric Discharge Particle Acceleration. **1995**, 147-151

61 Transgenic barley by particle bombardment. Inheritance of the transferred gene and characteristics of transgenic barley plants. **1995**, 81-88

60 Molecular and general genetics of ectomycorrhizal fungi. **1996**, 347-365

59 Biotechnology for Basic Studies and Breeding of Triticale. **1996**, 327-337

1

58 Plant Gene Transfer. **1997**, 399-426

57 Transcriptional Activity of Virus Promoters in Chicken Oviduct Cells. **1997**, 363-365

1

56 Engineering the Genome. **1998**, 351-375

55 Cereals. **1998**, 228-249

1

54 Insect-Resistant Transgenic Cotton. **1998**, 273-290

53 Biotechnology for the Improvement of Cotton. **1998**, 3-36

52 Genetic Transformation of Cotton Through Particle Bombardment. **1998**, 263-272

0

51 Protoclonal Variation in Crop Improvement. **1998**, 135-148

1

50 Microsurgery of Elodea Cells Using Excimer Laser. **2015**,

49 Biotechnology for improved crop productivity and quality. **2016**, 231-248

- 48 Transdermal Drug Delivery. **2016**, 215-228
- 47 References. **2016**, 457-514
- 46 Plant genetic engineering and genetically modified crop breeding: history and current status. **2017**, 4, 5 1
- 45 Dietary Fats and Obesity. **2017**, 707-744
- 44 Peanut (*Arachis hypogaea* L.) Breeding. **2019**, 253-299 1
- 43 Intellectual Property in Agriculture. **2019**,
- 42 A Review of Brain-Targeted Nonviral Gene-Based Therapies for the Treatment of Alzheimer's Disease. **2021**, 18, 4237-4255 0
- 41 Prospects of Inhibitory Proteins in Imparting Insect Pest Resistance. **2020**, 271-291
- 40 Plant Tissue Culture: Beyond Being a Tool for Genetic Engineering. **2020**, 175-200
- 39 Methods for Enhanced Production of Metabolites Under In Vitro Conditions. **2020**, 111-140 0
- 38 Direct Gene Transfer into Plant Mature Seeds via Electroporation After Vacuum Treatment. **2009**, 285-293
- 37 Chloroplast Transformation and Reverse Genetics. **1998**, 139-149
- 36 Monitoring Gene Expression In Plant Tissues. **2008**, 31-46
- 35 Orchids. **2007**, 273-288 1
- 34 Developing a tool to shoot genes by a man-made air pressure. *Journal of Genetic Engineering and Biotechnology*, **2020**, 18, 48 3.1
- 33 Resistance Marker- and Gene Gun-Mediated Transformation of *Trichoderma reesei*. *Methods in Molecular Biology*, **2021**, 2234, 55-62 1.4 1
- 32 A smartphone-based electroporation system with highly robust and low-voltage silicon nanopillar chips. *Biosensors and Bioelectronics*, **2022**, 197, 113776 11.8 1
- 31 Gene therapy for chronic traumatic brain injury: Challenges to resolve long-term consequences of brain damage. *Current Gene Therapy*, **2021**, 4.3

|    |   |      |    |
|----|---|------|----|
| 30 | Genetic Transformation of Sugarcane, Current Status and Future Prospects. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 768609  | 6.2  | 5  |
| 29 | What can we learn from commercial insecticides? Efficacy, toxicity, environmental impacts, and future developments.. <i>Environmental Pollution</i> , <b>2022</b> , 300, 118983 | 9.3  | 10 |
| 28 | Genetic Improvement of Wheat and Barley Using Transgenic Approaches. <b>2022</b> , 623-635  |      |    |
| 27 | Emerging investigator series: linking nanoparticle infiltration and stomatal dynamics for plant nanobionics. <i>Environmental Science: Nano</i> ,                               | 7.1  | 1  |
| 26 | Nanoscale-tipped wire array injections transfer DNA directly into brain cells ex vivo and in vivo.. <i>FEBS Open Bio</i> , <b>2022</b> ,  | 2.7  | 0  |
| 25 | Old and new horizons on <i>Persea americana</i> transformation techniques and applications. <i>Plant Cell, Tissue and Organ Culture</i> , 1                                     | 2.7  | 0  |
| 24 | Transformation systems, gene silencing and gene editing technologies in oomycetes. <i>Fungal Biology Reviews</i> , <b>2021</b> ,  | 6.8  | 0  |
| 23 | Recent Molecular Tools for the Genetic Manipulation of Highly Industrially Important Mucoromycota Fungi.. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2021</b> , 7,       | 5.6  | 1  |
| 22 | Biolistic Inoculation of Fruit Trees with Full-Length Infectious cDNA Clones of RNA Viruses.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2400, 207-216                 | 1.4  |    |
| 21 | DataSheet_1.pdf. <b>2019</b> ,  |      |    |
| 20 | Genetic Engineering in Marine Diatoms: Current Practices and Emerging Technologies. <b>2022</b> , 743-773   |      |    |
| 19 | Cotton Breeding. <b>2022</b> , 609-676  |      | 0  |
| 18 | Progress in Soybean Genetic Transformation Over the Last Decade. <i>Frontiers in Plant Science</i> , 13,  | 6.2  | 2  |
| 17 | Recent Advances in Microscale Electroporation. <i>Chemical Reviews</i> ,  | 68.1 | 0  |
| 16 | Exemplary evidence of bio-nano crosstalk between carbon dots and plant systems. <b>2022</b> , 155-173   |      |    |
| 15 | Genetic transformation via plant tissue culture techniques: Current and future approaches. <b>2022</b> , 131-156  |      |    |
| 14 | Plant Transformation Techniques. <b>2022</b> , 1-73   |      | 0  |
| 13 | Velocity distributions in a gas-gun microparticle accelerator. <b>2022</b> , 93, 105101   |      | 0  |

|    |   |   |
|----|---|---|
| 12 | Carrier gas triggered controlled biolistic delivery of DNA and protein therapeutics from metal-organic frameworks.  | 1 |
| 11 | Biotechnological Advances to Improve Abiotic Stress Tolerance in Crops. <b>2022</b> , 23, 12053   | 1 |
| 10 | Transient Gene Expression in Molecular Farming and Functional Genomics of Tea ( <i>Camellia sinensis</i> ): A Review.   | 0 |
| 9  | The mechanisms underpinning lateral gene transfer between grasses.  | 0 |
| 8  | Plant Virus-Derived Vectors for Plant Genome Engineering. <b>2023</b> , 15, 531   | 0 |
| 7  | Nanotechnology: An outstanding tool for increasing and better exploitation of microalgae valuable compounds. <b>2023</b> , 71, 103019                             | 0 |
| 6  | The emerging role of nanotechnology in plant genetic engineering.   | 0 |
| 5  | De novo induction of a DNA Histone H3K9 methylation loop on synthetic human repetitive DNA in cultured tobacco cells.   | 0 |
| 4  | Ornamental plant gene editing: Past, present and future. <b>2023</b> , 3, 1-6   | 0 |
| 3  | Establishment, optimization, and application of genetic technology in <i>Aspergillus</i> spp.. 14,  | 0 |
| 2  | Upgrades of a Small Electrostatic Dust Accelerator at the University of Stuttgart. <b>2023</b> , 13, 4441   | 0 |
| 1  | Molecular Cloning, Subcellular Localization, and Abiotic Stress Induction Analysis of a Polyamine Oxidase Gene from <i>Oryza sativa</i> . <b>2023</b> , 2023, 1-9 | 0 |