

- Andrews S.C., Arosio P., Bottke W., Briat J.F., von Darl M., Harrison P.M., Laulhere J.P., Levi S., Lobreaux S. and Yewdall S.J. Structure, function, and evolution of ferritins. *J. Inorg. Chem.* **47**, 161-174 (1992).
- Bartley G.E., Scolnik P.A., Giuliano G. Molecular biology of carotenoid biosynthesis in plants. *Annu. Rev. Plant Physiol.* **45**: 287-301 (1994).
- Batraw M.J. and Hall T.C. Histochemical analysis of CaMV 35S promoter- β -glucuronidase gene expression in transgenic rice plants. *Plant Mol. Biol.* **15**: 527 (1990).
- Baumann G., Raschke E., Bevan M. and F. Schöfl. Functional analysis of sequence required for transcriptional activation of a soybean heat shock gene in transgenic tobacco plants. *EMBO J.* **6**: 1161-1166 (1987).
- Beard J.L., Burton J.W., and Theil E.C. Purified ferritin and soybean meal can be sources of iron for treating iron deficiency in rat. *J. Nutr.* **126**: 154-160 (1996).
- Beardmore J., Ride J.P., Granger J.W. Cellular lignification as a factor in the hypersensitive resistant of wheat of stem rust. *Physiol Plant Path* **22**: 209-220 (1983).
- Benfey P.N. and Chua N.H. Regulated genes in transgenic plants. *Science* **244**: 174-181 (1989).
- Benfey P.N. and Chua N.H. The cauliflower mosaic virus 35S promoter: Combinatorial regulation of transcription in plants. *Science* **250**: 959-966 (1990).
- Bertrand K.P., Postle K., Wray L.V. Jr and Reznikoff W.S. Overlapping divergent promoters control expression of Tn10 tetracycline resistance. *Gene.* **23**: 149-156 (1983).
- Bevan M., Schufflebottom D., Edwards K., Jefferson R. and Schuch W. Tissue and cell-specific activity of a phenylalanine ammonia-lyase promoter in transgenic plants. *EMBO J.* **8**: 1899-1906 (1989).
- Birch R.G. Plant transformation: problems and strategies for practical application. *Ann. Rev. Plant Physiol. Plant Mol. Biol.* **48**: 297-326 (1997).

- Bray E.A., Naito S., Pan N.S., Anderson E., Dubé P. and Beachy R.N. Expression of the β -subunit of β -conglycinin in seeds of transgenic plants. *Planta*. **172**: 364-370 (1987).
- Brogliè R, Coruzzi G, Fraley RT, Rogers SG, Horsch RB, Niedermeyer JG, Fink CL, Chua NH. Light-regulated expression of a pea ribulose-1,5-bisphosphate carboxylase small subunit gene in transformed plant cells. *Science* **224**: 838-843 (1984).
- Brunke K.L. and Meeusen R.L. Insect control with genetically engineered crops. *Trends Biotechnol.* **9**: 197-200 (1991).
- Cao J, Duan X, McElroy D, and Wu R: Regeneration of herbicide resistant transgenic rice plants following microprojectile-mediated transformation of suspension culture cells. *Plant Cell Rep* **11**: 586 (1992).
- Cao J., Wang Y.C., Klein T.M., Sanford J.C. and Wu R. Transformation of rice and maize using the particle gun method. Pages 21-33 in Plant gene transfer. Lam C.J. and Beachy R.N., eds, Wiley-Liss, New York (1990).
- Carter A.D., Morris C.E. and McAllister W.T. Revised transcription map of the late region of bacteriophage T7 DNA. *J Virol.* **37**: 636-642 (1981).
- Castresana C., Garcia-Luque I., Alonso E., Malik V.S. and Cashmore A.R. Both positive and negative regulatory elements mediate expression of a photoregulated CAB gene from *Nicotiana plumbaginifolia*. *EMBO J.* **7**: 1929-1936 (1988).
- Cermakian, N., Ikeda, T. M., Cedergren, R. and Gray, M. W. Sequences homologous to yeast mitochondrial and bacteriophage T3 and T7 RNA polymerases are widespread throughout the eukaryotic lineage. *Nucleic Acids Res.*, **24**: 648-654 (1996).
- Chakraborty S., Chakraborty N. and Datta A. Increased nutritive value of transgenic potato by expressing a nonallergenic seed albumin gene from *Amaranthus hypochondriacus*. *Proc. Natl. Acad. Sci. U S A.* **97**: 3724-2729 (2000).
- Chamberlain D.A., Brettell RIS., Last DI., Witrzens B., McElroy D. Dolferus R., and Dennis E.S. *J. P Aust lant Physiol.* **21**: 95-112 (1994).

- Chamberlin M., McGrath L., and Waskell L. New RNA polymerase from *Escherichia coli* infected with bacteriophage T7. *Nature* **228**: 227-231 (1970).
- Cheetham, G. M. and Steitz, T. A. Insights into transcription: structure and function of single-subunit DNA-dependent RNA polymerases. *Curr. Opin. Struct. Biol.*, **10**, 117-123 (2000).
- Cheetham, G. M., Jeruzalmi, D. and Steitz, T. A. Structural basis for initiation of transcription from an RNA polymerase-promoter complex. *Nature*, **399**, 80-83 (1999).
- Chen ZL, Schuler MA, and Beachy RN. Functional analysis of regulatory elements in a plant embryo-specific gene. *Proc. Natl Acad. Sci. U S A.* **83**: 8560-8564 (1986).
- Christensen AH, Sharrock RA, Quail PH. Maize polyubiquitin genes: structure, thermal perturbation of expression and transcript splicing, and promoter activity following transfer to protoplasts by electroporation. *Plant Mol Biol.* **18**: 675-689 (1992).
- Christou P, Ford TL and Kofron M: Production of transgenic rice (*Oryza sativa* L.) plants from agronomically important *indica* and *japonica* varieties via electric discharge particle acceleration of exogenous DNA into immature zygotic embryos. *Bio/Technology* **9**: 957-962 (1991).
- Colledge W.H., Richardson W.D., Edge M.D., and Smith A.E. Extensive mutagenesis of the nuclear location signal of simian virus 40 large-T antigen. *Mol. Cell. Biol.* **6**: 4136-4139 (1986).
- Colot V., Robert L., Kavanagh T.A., Thompson R. and Bevan M.W. Localization of sequences in wheat endosperm protein genes which confer tissue specific expression in tobacco. *EMBO J.* **6**: 3559-3564 (1987).
- Comai L, Moran P, Maslyar D. Novel and useful properties of a chimeric plant promoter combining CaMV 35S and MAS elements. *Plant Mol Biol.* **15**: 373-381 (1990).
- Corona V., Aracri, B., Kosturkova G., Bartley G.E., Pitto L., Giorgetti L., Scolnik P.A. and Giuliano G. Regulation of a carotenoid biosynthesis gene promoter during plant development. *Plant J.* **9**: 505-512 (1996).

- Coruzzi G., Broglie R., Edwards C., and Chua N.H. Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1,5-bisphosphate carboxylase. *EMBO J.* **3**: 1671-1679 (1984).
- Cramer CL, Edwards K, Dron M, Liang X, Dildine SL, Bolwell GP, Dixon RA, Lamb CJ and Schuch W. Phenylalanine ammonia-lyase gene organization and structure. *Plant Mol. Biol.* **12**: 367-383 (1989).
- Cramer CL, Weissenborn DL, Oishi KK, Grabau EA, Bennett S, Ponce E, Grabowski GA, Radin DN. Bioproduction of human enzymes in transgenic tobacco. *Ann N Y Acad Sci.* **792**: 62-71 (1996).
- Cronejo M.J., Luth D., Blankenship K.M., Anderson O.D. and Blechl A.E. Activity of a maize ubiquitin promoter in transgenic rice. *Plant Mol. Biol.* **23**: 567-581 (1993).
- Cunningham, F.X. and Gantt, E. Genes and enzymes of carotenoid biosynthesis in plants. *Annu. Rev. Plant Physiol.* **49**: 557-583 (1998).
- Cuypers B., Schmelzer E., Hahlbroc K. In situ localization of rapidly accumulated phenylalanine ammonia-lyase mRNA around penetration site of *Phytophthora infestans* in tomato leaves. *Mol. Plant Microbe Interact* **1**: 157-160 (1988).
- Daniell, H., Dhingra, A. Multigene engineering: dawn of an exciting new era in biotechnology. *Curr Opin Biotechnol.* **13**: 136-141 (2002).
- Daniell, H., Streatfield, S. J., Wycoff, K. Medical molecular farming: production of antibodies, biopharmaceuticals and edible vaccines in plants. *Trends Plant Sci.* **6**: 219-226 (2001).
- Datta S. K., Datta K., Soltanifar N., Donn, G., and Potrykus I., Herbicide-resistant indica rice plants from IRRI breeding line IR72 after PEG-mediated transformation of protoplast, *Plant Mol. Biol.* **20**: 619-629 (1992).
- Datta S. K., Peterhans A., Datta K. and Potrykus, I., Genetically engineered fertile indica rice recovered from protoplast, *Bio/Technology* **8**: 736-740 (1990).
- Davies P.L. and Hew C.L. Biochemistry of fish antifreeze protein. *FASEB J.* **4**: 2460- 2468 (1990).

- De Cosa B., Moar W., Lee S. B., Miller M. and Daniell H. Overexpression of the Bt cry2Aa2 operon in chloroplasts leads to formation of insecticidal crystals. *Nat Biotechnol.* **19**: 71-74 (2001).
- Dingwall C., Sharnick S.V. and Laskey R.A. A polypeptide domain that specifies migration of nucleoplasmin into the nucleus. *Cell* **30**: 449-458 (1982).
- Dix D.J., Lin P.N., Kimata Y. and Theil E.C. The iron regulatory region of ferritin mRNA is also a positive control element for iron-independent translation. *Biochemistry.* **31**: 2818-2822 (1992).
- Dixon R.A., Dey P.M., and Lamb C.J. Phytoalexins: Enzymology and molecular biology. *Adv. Enzymol. Relat. Areas Mol. Biol* **55**: 1-135 (1983).
- Dunn J.J. and Studier F.W. Complete nucleotide sequence of bacteriophage T7 DNA and the locations of T7 genetic elements. *J Mol Biol.* **166**: 477-535 (1983).
- Dunn J.J., Krippel B., Bernstein K.E., Westphal H., Studier F.W. Targeting bacteriophage T7 RNA polymerase to the mammalian cell nucleus. *Gene* **68**: 259-266 (1988).
- Ellis J.G., Llewellyn D.J., Dennis E.S. and Peacock W.J. Maize Adh1 promoter sequences control anaerobic regulation: addition of upstream promoter elements from constitutive genes is necessary for expression in tobacco. *EMBO J.* **6**: 11-16 (1987).
- Ellis J.R., Shirsat A.H., Hopher A., Yarwood J.N., Gatehouse J.A., Croy R.R.D and Boulter D. Tissue specific expression of a pea legumin gene in seeds of *Nicotiana plumbaginifolia*. *Plant Molecular Biology* **10**: 203-214 (1988).
- Farran I, Sanchez-Serrano JJ, Medina JF, Prieto J, Mingo-Castel AM. Targeted expression of human serum albumin to potato tubers. *Transgenic Res.* **11**: 337-346 (2002).
- Fawzi, W.W., Chalmers, T.C., Herrera, M.G., Mosteller, F. Vitamin A supplementation and child mortality. A meta-analysis. *JAMA*, **269**: 898-903 (1993).
- Fluhr R., Kuhlemeier C., Nagy F. and Chua N.H. Organ-specific and light-induced expression of plant genes. *Science* **232**: 1106-1112 (1986).

- Fluhr R., Moses P., Morelli G., Coruzzi G. and Chua N.H. Expression dynamics of the pea *rbcS* and organ distribution of the transcripts *EMBO J.* **5**: 2063-2071 (1986).
- Fraley RT, Rogers SG, Horsch RB, Sanders PR, Flick JS, Adams SP, Bittner ML, Brand LA, Fink CL, Fry JS, Galluppi GR, Goldberg SB, Hoffmann NL, Woo SC. Expression of bacterial genes in plant cells. *Proc Natl Acad Sci U S A.* **80**: 4803-4807 (1983).
- Fromm M. E., Taylor L.P. and Walbot V. Expression of genes transferred into monocot and dicot plant cells by electroporation. *Proc. Natl. Acad. Sci. USA.* **82**: 5824-5828 (1985).
- Fujiwara T., and Beachy R.N. Tissue-specific and temporal regulation of a beta-conglycinin gene: roles of the RY repeat and other cis-acting elements. *Plant Mol Biol.* **24**: 261-72 (1994).
- Gann, P.H., Ma, J., Giovannucci, E., Willett, W., Sacks, F.M., Hennekens, C.H., Stampfer, M.J. Lower prostate cancer risk in men with elevated plasma lycopene levels: results of a prospective analysis. *Cancer Res.* **59**, 1225-1230 (1999).
- Gatz C. Novel inducible/repressible gene expression systems. *Methods Cell Biol.* **50**, 411 (1995).
- Gatz C., Frohberg C., and Wendenburg R. Stringent repression and homogeneous de-repression by tetracycline of a modified CaMV 35S promoter in intact transgenic tobacco plant. *Plant J.* **2**: 397-404 (1992).
- Giddings, G. Transgenic plants as protein factories. *Curr Opin Biotechnol.* **12**: 450-454 (2001).
- Gilmour S.J. and Thomashow M.F. Cold acclimation and cold-regulated gene expression in ABA mutants of *Arabidopsis thaliana*. *Plant Mol Biol.* **17**: 1233-1240 (1991).
- Giuliano G., Bartley G.E., Scolnik P.A. Regulation of carotenoid biosynthesis during tomato development. *Plant Cell.* **5**: 379-87 (1993).

- Gordon-Kamm W.J., Spencer T.M., Mangano M.L., Adams T.R., Danines R.J...Transformation of maize cell and regeneration of fertile transgenic plants. *Plant Cell* **2**: 603-618 (1990).
- Goto F, Yoshihara T, Shigemoto N, Toki S, Takaiwa F. Iron fortification of rice seed by the soybean ferritin gene. *Nat Biotechnol.* **17**: 282-286 (1999).
- Gowri G., Paiva N.L., Dixon R.A. Stress responses in alfalfa (*Medicago sativa L.*): sequence analysis of phenylalanine ammonia-lyase (PAL) cDNA clones and appearance of PAL transcripts in elicitor-treated cell cultures and developing plants. *Plant Mol. Biol.* **17**: 415-429 (1991).
- Green P.J., Kay S.A. and Chua N.H. Sequence-specific interactions of a pea nuclear factor with light-responsive elements upstream of the *rbcS-3A* gene *EMBO J.* **6**: 2543-2549 (1987).
- Grimsley N.H. Agroinfection. *Physiol. Plant* **79**: 147-153 (1990).
- Hauptmann R.M., Asharap M., Vasil V., Hannah L.C., Vasil I.K., and Ferl R. *Plant Physiol.* **88**: 1063-1066 (1988).
- Hejla RK, Horvath DP, Gilmour SJ, and Thomashow MF. Molecular cloning and expression of *cor* (cold regulated genes in *Arabidopsis thaliana*. *Plant Physiol.* **93**: 1246-1252 (1990).
- Hiatt A, Cafferkey R, Bowdish K. Production of antibodies in transgenic plants. *Nature.* **342**: 76-78 (1989).
- Hillen W., Schollmeier K. and Gatz C. Control of expression of the Tn10-encoded tetracycline resistance operon. II. Interaction of RNA polymerase and TET repressor with the tet operon regulatory region. *J Mol Biol.* **15**: 185-201 (1984).
- Horsch R.B., Fry J.E., Hoffman N.L., Eichholtz D., Rogers S.G. and Fraley R.T. A simple and general method for transferring genes into plants. *Science* **227**: 1229-1231 (1985).
- Horsch R.B., Rogers S.G. and Fraley R.T. Transgenic plants. *Cold Spring Harb Symp Quant Biol.* **50**: 433-437 (1985).

- Huguency P., Badillo A., Chen H.C., Klein A., Hirschberg J., Camara B. and Kuntz M. Metabolism of cyclic carotenoids: a model for the alteration of this biosynthetic pathway in *Capsicum annuum* chromoplasts. *Plant J.* **8**: 417-424 (1995).
- Imburgio D., Rong M., Ma K. and McAllister W.T. Studies of promoter recognition and start site selection by T7 RNA polymerase using a comprehensive collection of promoter variants. *Biochemistry.* **39**: 10419-10430 (2000).
- Jani D, Meena LS, Rizwan-ul-Haq QM, Singh Y, Sharma AK, Tyagi AK. Expression of cholera toxin B subunit in transgenic tomato plants. *Transgenic Res.* **11**: 447-454 (2002).
- Jefferson R.A. and Wilson K.J. The GUS gene fusion system. In: Gelvin S.B., Schilperoort R.A., Verma D.P.S. (eds). *Plant Molecular Biology Manual*, pp. B14/1-B14/33. Kluwer Academic Publishers, Dordrecht, Netherlands (1991).
- Jefferson R.A., Kavanagh T.A. and Bevan M.W. GUS fusion: β -glucuronidase as a sensitive and versatile gene fusion marker in higher plants. *EMBO J.* **6**: 3901-3907 (1987).
- Jones D.H. Phenylalanine ammonia-lyase: Regulation of its induction, and its role in plant development. *Phytochemistry* **23**, 1349-1359 (1984).
- Jorgensen J.E., Stougaard J., Marcker A. and Marcker K.A. Root nodule specific gene regulation: analysis of the soybean nodulin N23 gene promoter in heterologous symbiotic systems. *Nucleic Acids Res.* **16**: 39-50 (1988).
- Kalderon D., Richardson W.D., Markham A.F. and Smith A.E. Sequence requirements for nuclear location of simian virus 40 large-T antigen. *Nature* **311**: 33-38 (1984).
- Kalderon D., Robert B.L., Richardson W.D., and Smith A.E. A short amino acid sequence able to specify nuclear location. *Cell* **39**: 499-509 (1984).
- Kapusta J., Modelska A., Figlerowicz M., Pniewski T., Letellier M., Lisowa O., Yusibov V., Koprowski H., Plucienniczak A. and Legocki A.B. A plant-derived edible vaccine against hepatitis B virus. *FASEB Journal* **13**:1796-1799 (1999).

- Kaulen H., Schell J. and Kreuzaler F. Light-induced expression of the chimeric chalcone synthase-NPTII gene in tobacco cells. *EMBO J.* **5**: 1-8 (1986).
- Kawamata S., Yamada T., Tanaka Y., Sriprasertsak P., Kato H., Ichinose Y., Kato M.H. Oku H. Molecular cloning of phenylalanine ammonia-lyase from *Pisum sativum*. *Plant Mol. Biol.* **20**: 167-170 (1992).
- Keil M., Sanchez-serrano J.J. and Willmitzer L. Both wound-inducible and tuber specific expression are mediated by the promoter of a single member of the potato proteinase inhibitor II gene family. *EMBO J.* **8**: 1323-1330 (1989).
- Klement J.F., Moorefield M.B., Jorgenson E., Brown J.E., Risman S. and McAllister W.T. Discrimination between bacteriophage T3 and T7 promoters by the T3 and T7 RNA polymerases depends primarily upon a three base-pair region located 10 to 12 base-pairs upstream from the start site *J. Mol. Biol.* **215**: 21-29 (1990).
- Kuhlemeier C., Fluhr R., Green P.J., and Chua N.H. Sequences in the pea rbcS-3A gene have homology to constitutive mammalian enhancers but function as negative regulatory elements. *Gene Dev.* **1**: 247-255 (1987).
- Kurkela S, Bor-Franck M. Cloning and characterization of a cold-and ABA-inducible Arabidopsis gene. *Plant Mol. Biol.* **15**: 137-144 (1990).
- Kurkela S, Bor-Franck M. Structure and expression a *kin2*, one of two cold and ABA-induced gene of *Arabidopsis thaliana*. *Plant Mol. Biol.* **19**: 689-692 (1992).
- Kwon T.H., Kim Y.S., Lee J.H. and Yang M.S. Production and secretion of biologically active human granulocyte-macrophage colony stimulating factor in transgenic tomato suspension cultures. *Biotechnol Lett.* **25**: 1571-1574 (2003).
- Lakshman M.R. and Okoh C. Carotenoid-protein complexes. *Methods Enzymol.* **214**: 74-86 (1993).
- Lamb C.J., Lawton M.A., Dron M. and Dixon R.A. Signals and transduction mechanism for activation of plant defenses genes by fungal elicitor, wounding, and infection. *Mol. Cell. Biol.* **7**: 335-341 (1987).

- Lamppa G., Nagy F. and Chua NH. Light-regulated and organ-specific expression of a wheat Cab gene in transgenic tobacco. *Nature*. **316**: 750-752 (1985).
- Langridge WHR. Edible vaccines. *Scientific American* **283**: 66-71 (2000).
- Lawton MA, Lamb CJ. Transcriptional activation of plant defense genes by fungal elicitor, wounding, and infection. *Mol Cell Biol*. **7**: 335-341 (1987).
- Reddy V.S., Leelavathi S., Selvapandian A., Raman R., Ferraiolo G., Shukla V., Bhatnagar R.K. Analysis of chloroplast transformed tobacco plants with cryIIa5 under rice *psbA* transcriptional elements reveal high level expression of Bt toxin without imposing yield penalty and stable inheritance of transplastome. *Mol Breed*. **9**: 259-269 (2002).
- Leelavathi S, and Reddy, V. S. Chloroplast expression of His-tagged GUS-fusions: A general strategy to overproduce and purify foreign proteins using transplastomic plants as bioreactors. *Mol. Breed*. **11**: 49-58 (2002).
- Leisy D.J., Hnilo J., Zhao Y. and Okita TW. Expression of a rice glutelin promoter in transgenic tobacco. *Plant Mol. Biol*. **14**: 41-50 (1990).
- Lescure A.M., Lescure A.M., Proudhon D., Pesey H., Ragland M., Theil E.C. and Briat J.F. Ferritin gene transcription is regulated by iron in soybean cell cultures. *Proc. Natl. Acad. Sci. USA* **88**: 8222-8226 (1991).
- Liang X, Dron M, Schmid J, Dixon R.A and Lamb C.J. Developmental and environmental regulation of a phenylalanyl ammonia-lyase- β -glucuronidase gene fusion in transgenic tobacco. *Proc. Natl. Acad. Sci. USA* **86**: 9284-9288 (1989)
- Liang X, Dron M, Schmid J, Dixon R.A and Lamb C.J. Differential regulation of phenylalanine ammonia-lyase genes during plant development and environmental cues. *J. Biol. Chem*. **264**: 14486-14492 (1989).
- Lindgren LO, Stalberg KG, Hoglund AS. Seed-specific overexpression of an endogenous Arabidopsis phytoene synthase gene results in delayed germination and increased levels of carotenoids, chlorophyll, and abscisic acid. *Plant Physiol*. **132**: 779-85 (2003).
- Lobreaux S, Massenet O, and Briat JF. Iron induces ferritin synthesis in maize plantlets. *Plant Mol Biol*. **19**: 563-575 (1992).

- Lobreaux S, Yewdall S, Briat J.F and Harision P.M. Amino-acid sequence and predicted three-dimensional structure of pea seed (*Pisum sativum*) ferritin. *Biochem J.* **228**: 931-939 (1992).
- Lois R, Dietrich A, Hahlbrock K. and Schulz W. A phenylalanine ammonia-lyase gene from parsley: Structure, regulation, and identification of elicitor and light-responsive cis-acting elements. *EMBO J.* **8**: 1641-1648 (1989).
- Maher E.A., Bate N.J., Ni W., Elkind Y., Dixon R.A. and Lamb C.J. Increased disease susceptibility of transgenic tobacco plants with suppressed levels of preformed phenylpropanoid products. *Proc. Natl Acad. USA* **91**: 7802-7806 (1994).
- Maliga, P. Engineering the plastid genome of higher plants. *Curr Opin Plant Biol.* **5**: 164-172 (2002).
- Maliga, P. Progress towards commercialization of plastid transformation technology. *Trends Biotechnol.* **21**: 20-28 (2003).
- Matsumoto S, Ikura K, Ueda M and Sasaki R. Characterization of a human glycoprotein (erythropoietin) produced in cultured tobacco cells. *Plant Mol Biol.* **27**: 1163-1172 (1995).
- Matzke A.J., Stoger E.M., Schernthaner J.P. and Matzke M.A. Deletion analysis of a zein gene promoter in transgenic tobacco plants. *Plant Mol Biol.* **14**: 323-332 (1990).
- McAllister, W. T. and Raskin, C. A. The phage RNA polymerases are related to DNA polymerases and reverse transcriptases. *Mol. Microbiol.*, **10**: 1-6 (1993).
- McBride, K.E., Schaaf D.J., Daley M. and Stalker D.M. Controlled expression of plastid transgenes in plants based on a nuclear DNA-encoded and plastid-targeted T7 RNA polymerase. *Proc. Natl. Acad. Sci.* **91**: 7301-7305 (1994).
- McElroy D, Blowers A.D., Jenes B. and Wu R. Construction of expression vectors based on the rice actin1 (Act1) 5' region for use in monocot transformation. *Mol Gen Genet.* **231**: 150-160 (1991).
- McElroy D, Rothenberg M, Reece K.S. and Wu R. Characterization of the rice (*Oryza sativa*) actin gene family. *Plant Mol Biol* **15**: 257-268 (1990).

- McElroy D, Zhang W, Cao J. and Wu R. Isolation of an efficient actin promoter for use in rice transformation. *Plant Cell* **2**: 163-171 (1990).
- McGaughey W.H. and Whalon M.E. Managing insect resistance to bacillus thuringiensis toxins. *Science* **258**: 1451-1455 (1992).
- Minami E.I., Ozeki Y., Matsuoka M., Koizuka N. and Tanaka Y. Structure and some characterization of the gene for phenylalanine ammonia-lyase from rice plants. *Eur.J.Biochem.* **185**: 19-25 (1989).
- Moffatt B.A., Dunn J.J. and Studier F.W. Nucleotide sequence of the gene for bacteriophage T7 polymerase. *J. Mol. Biol.* **173**: 265-269 (1984).
- Muller D.K., Martin C.T. and Coleman J.E. T7 RNA polymerase interacts with its promoter from one side of the DNA helix. *Biochemistry* **28**: 3306-3313 (1989).
- Murray E.E., Rocheleau T., Eberle M., Stock C., Sekar V. and Adang M. Analysis of unstable RNA transcripts of insecticidal crystal protein genes of *Bacillus thuringiensis* in transgenic plants and electroporated protoplasts. *Plant Mol Biol.* **16**: 1035-1050 (1991).
- Nagy F., Boutry M., Hsu M.Y., Wong M. and Chua N.H. The 5'-proximal gene contains a 268-bp enhancer-like sequence for phytochrome response *EMBO J.* **6**: 2537 - 2542 (1987)
- Nagy F., Kay S.A. and Chua N.H. A circadian clock regulates transcription of the wheat Cab-1 gene. *Genes Dev* **2**: 376 - 382 (1988).
- Nagy F., Kay S.A., Boutry M., Hsu M.Y. and Chua NH. Phytochrome-controlled expression of a wheat cab gene in transgenic tobacco seedlings. *EMBO J* **5**: 1119-1124 (1986).
- Nayak P., Basu D., Das S., Basu A., Ghosh D., Ramakrishnan N.A., Ghosh M. and Sen S.K. Transgenic elite indica rice plants expressing CryIAc delta-endotoxin of *Bacillus thuringiensis* are resistant against yellow stem borer (*Scirpophaga incertulas*). *Proc Natl Acad Sci U S A.* **94**: 2111-2116 (1997).
- Ohl S., Hedrick S.A., Chory J. and Lamb C.J. Functional properties of a phenylalanine ammonia-lyase promoter from *Arabidopsis*. *Plant Cell* **2**: 837-886 (1990).

- Okamuro J.K., Jofuku K.D and Goldberg R.B. Soybean seed lectin gene and flanking nonseed protein genes are developmentally regulated in transformed tobacco plants. *Proc Natl Acad Sci U S A.* **83**: 8240-8244 (1986).
- Okita T.W., Hwang Y.S., Hnilo J., Kim W.T., Aryan A.P., Larson R. and Krishnan H.B. Structure and expression of the rice glutelin multigene family. *J. Biol. Chem.* **264**: 12573-12581 (1989).
- Paine P.L., Moore L.C. and Horowitz S.B. Nuclear envelope permeability. *Nature* **254**: 109-114 (1975).
- Park S.H., Pinson S.R.M. and Smith R.H. T-DNA integration into genomic DNA of rice following *Agrobacterium* inoculation of isolated shoot apices. *Plant Mol. Biol.* **32**:1135-1148 (1996).
- Parmenter D.L., Boothe J.G., van Rooijen G.J., Yeung E.C. and Moloney M.M. Production of biologically active hirudin in plant seeds using oleosin partitioning. *Plant Mol Biol.* **29**: 1167-1180 (1995).
- Paszkowski J, Shillito R.D., Saul M, Vandak V., Hohn T., Hohn B. and Potrykus I. Direct gene transfer to plants. *Biotechnology.* **24**: 387-392 (1992).
- Pecker, I., Gabbay, R., Cunningham, F.X., Jr, Hirschberg, J. Cloning and characterization of the cDNA for lycopene beta-cyclase from tomato reveals decrease in its expression during fruit ripening. *Plant Mol. Biol.* **30**: 807-819 (1996).
- Pellegrini L., Rohfritsch O., Fritg B. and Legand M. Phenylalanine ammonia-lyase in tobacco: Molecular cloning and gene expression during the hypersensitive reaction to tobacco mosaic virus and the response to a fungal elicitor. *Plant Physiol.* **106**: 877-886 (1994).
- Perlak F.J., Fuchs R.L., Dean D.A., McPherson S.L. and Fischhoff D.A. Modification of the coding sequence enhances plant expression of insect control protein genes. *Proc Natl Acad Sci U S A.* **88**: 3324-3328 (1991).
- Poulsen C. and Chua N.H. Dissection of 5' upstream sequences for selective expression of the *Nicotiana plumbaginifolia* rbcS-8B gene. *Mol Gen Genet.* **214**: 16-23 (1988).

- Poulsen C., Fluhr R., Kauffman J.M., Boutry M. and Chua N.H. Characterization of an *rbcS* gene from *Nicotiana plumbaginifolia* and expression of an *rbcS*-CAT chimeric gene in homologous and heterologous nuclear background. *Mol. Gen. Genet.* **205**: 193-200 (1986).
- Ragland M. and Theil E.C. Ferritin (mRNA. Protein) and iron concentration during soybean nodule development. *Plant Mol. Biol.* **21**: 555-560 (1993).
- Ragland M., Briat J.F., Gagnon J., Laulhere J.P., Massenet O. and Theil E.C. Evidence for a conservation of ferritin sequences among plants and animals for a transit peptide in soybean. *J. Biol. Chem.* **265**: 18339-18344 (1990).
- Richter L.J., Thanavala Y., Arntzen C.J. and Mason HS. Production of hepatitis B surface antigen in transgenic plants for oral immunization. *Nature Biotechnology* **18**: 1167-1171 (2000).
- Ride J.P. Lignification in wounded wheat leaves in response to fungi and its possible role in resistance. *Physiol Plant Path* **5**: 125-134 (1975).
- Roberts B.L., Richardson W.D. and Smith A.E. The effect of protein context on nuclear location signal function. *Cell* **50**: 465-475 (1987).
- Rochester D.E., Winer J.A. and Shah D.M. The structure and expression of maize genes encoding the major heat shock protein, hsp70. *EMBO J.* **5**:451-458(1986).
- Ronen G., Cohen M., Zamir D. and Hirschberg J. Regulation of carotenoid biosynthesis during tomato fruit development: expression of the gene for lycopene epsilon-cyclase is down-regulated during ripening and is elevated in the mutant Delta. *Plant J.* **17**: 341-351 (1999).
- Rosati C., Aquilani R., Dharmapuri S., Pallara P., Marusic C., Tavazza R., Bouvier F., Camara B. and Giuliano G. Metabolic engineering of beta-carotene and lycopene content in tomato fruit. *Plant J.* **24**: 413-419 (2000).
- Sambrook, J., Fritsch, E.F and Maniatis Molecular cloning. A Laboratory Manual. 2nd edn. Cold Spring Harbor: Cold Spring Harbor, Laboratory Press (1989)
- Sanchez-Serrano J.J., Keil M., O'Connor A., Schell J. and Willmitzer L. Wound-Induced Expression of a Potato Inhibitor II Gene in Transgenic Plants. *EMBO J.* **6**: 303-306 (1987).

- Sanger M., Daubert S. and Goodman R.M. Characteristics of a strong promoter from figwort mosaic virus: comparison with the analogous 35S promoter from cauliflower mosaic virus and the regulated mannopine synthase promoter. *Plant Mol Biol.* **14**: 433-443 (1990).
- Schnepf E., Crickmore N., Van Rie J., Lereclus D., Baum J., Feitelson J., Zeigler D.R. and Dean D.H. *Bacillus thuringiensis* and its pesticidal crystal proteins. *Microbiol Mol Biol Rev.* **62**: 775-806 (1998).
- Semenyuk E.G., Orlova I.V., Stremovskii O.A., Balandin T.G., Nosov A.M., Bur'yanov Y. and Deev S.M. Transgenic tobacco plants produce miniantibodies against human ferritin. *Dokl Biochem Biophys.* **384**: 176-178 (2002).
- Sengupta-Gopalan, C., Reichert N.C., Barker R.F., Hall T.C. and Kemp J.D. Developmentally regulated expression of the bean beta phaseolin gene in tobacco seeds. *Proc. Natl. Acad Sci.* **82**: 3320-3324 (1985).
- Shimamoto K., Terada R., Izawa T. and Fujimoto H. Fertile transgenic rice plants regenerated from transformed protoplasts. *Nature* **338**: 274-276 (1989).
- Shintani D. and DellaPenna D. Elevating the vitamin E content of plants through metabolic engineering. *Science* **282**: 2098-2100 (1998).
- Shirley B.W., Berry-Lowe S.L., Rogers S.G., Flick J.S., Horsch R., Fraley R.T. and Meagher RB. 5' proximal sequences of a soybean ribulose-1,5-bisphosphate carboxylase small subunit gene direct light and phytochrome controlled transcription. *Nucleic Acids Res.* **15**: 6501-6514 (1987).
- Shirsat A.H., Meakin P.J. and Gatehouse J.A. Sequences 5' to the conserved 28 bp Leg box element regulate the expression of pea seed storage protein gene legA. *Plant Mol Biol.* **15**: 685-93 (1990).
- Simpson J., Schell J., Van Montagu M. and Herrera-Estrella L. The light-inducible and tissue-specific expression of a pea LHCP gene involves an upstream element combining enhancer and silencer-like properties. *Nature* **323**: 551-553 (1986).
- Sousa R. and Padilla R. A mutant T7 RNA polymerase as a DNA polymerase. *EMBO J.* **14**: 4609-4621 (1995).

- Sousa R. Structural and mechanistic relationships between nucleic acid polymerases. *Trends. Biochem. Sci.*, **21**: 186-190 (1996).
- Sousa R., Chung Y. T., Rose J. P. and Wang B.C. Crystal structure of bacteriophage T7 RNA polymerase at 3.3 Å resolution. *Nature*, **364**: 593-599 (1993).
- Spence M.J., Henzl M.T. and Lammer P.J. The structure of a *Phaseolus vulgaris* cDNA encoding the iron storage protein ferritin. *Plant Mol Biol.* **17**: 499-504 (1991).
- Stockhaus J., Eckes P., Blau A., Schell J. and Willmitzer L. Organ-specific and dosage-dependent expression of a leaf/stem specific gene from potato after tagging and transfer into potato and tobacco plants. *Nucleic Acids Res.* **15**: 3479-3491 (1987).
- Stougaard J., Sandal N., Gron A., Kuhle A. and Marcker K. 5' analysis of the soybean leghemoglobin lbc3 gene: regulatory elements required for promoter activity and organ specificity. *EMBO* **6**: 3565-3569 (1987).
- Studier F.W. and Moffatt B. A. Use of bacteriophage T7 RNA polymerase to direct selective high level expression of cloned genes. *J. Mol. Biol.* **189**: 113-130 (1986).
- Subramaniam R., Reinold S., Molitor E.K. and Douglas C.J. Structure, inheritance, and expression of hybrid poplar (*Populus trichocarpa* x *Populus deltoides*) phenylalanine ammonia-lyase genes. *Plant Physiol.* **102**: 71-83 (1993).
- Szabados L., Ratet P., Grunenberg B. and de Bruijn F.J. Functional analysis of the *Sesbania rostrata* leghemoglobin glb3 gene 5'-upstream region in transgenic *Lotus corniculatus* and *Nicotiana tabacum* plants. *Plant Cell* **2**: 973-86 (1990).
- Tabashnik B.E. Seeking the root of insect resistance to transgenic plants. *Proc Natl Acad Sci U S A.* **94**: 3488-3490 (1997).
- Takaiwa F, Kikuchi S, and Oono K. The complete nucleotide sequence of new type cDNA coding for rice storage protein glutelin. *Nucleic Acids Res.* **17**: 3289 (1989).

- Takaiwa F, Oono K, Wing D and Kato A. Sequences of three members and expression of a new major subfamily of glutelin gene from rice. *Plant Mol. Biol.* **17**: 875-885 (1991).
- Takaiwa F., Yamanouchi U., Yoshihara T., Washida H., Tanabe F., Kato A. and Yamada K. Characterization of common cis-regulatory elements responsible for the endosperm-specific expression of members of the rice glutelin multigene family. *Plant Mol Biol.* **30**: 1207-1221 (1996).
- Terada R. and Shimamoto K. Expression of CaMV 35S-GUS in transgenic rice plants. *Mol. Gen. Genet.* **220**: 389-392 (1990).
- Terada R., Nakamura T., Iwabuchi M. and Shimamoto K. A wheat histone H3 promoter confers cell division-dependent and independent expression of the gusA gene in transgenic rice plants. *Plant J.* **3**: 241-252 (1993).
- Theil E.C. Ferritin: Construct, gene regulation, and cellular function in animals, plants and microorganisms. *Annu. Rev. Biochem.* **56**: 289-315 (1987).
- Theil EC. Regulation of ferritin and transferrin receptor mRNAs. *J. Biol. Chem.* **265**, 4771-4774 (1990).
- Thomas T.L. Gene expression during plant embryogenesis and germination: an overview. *Plant Cell.* **5**: 1401-1410 (1993).
- Timko M.P., Kausch A.P., Castresana C., Fassler J., Herrera-Estrella L., Van den Broeck G., Van Montagu M., Schell J. and Cashmore AR. Light regulation of plant gene expression by an upstream enhancer-like element. *Nature.* **318**: 579-582 (1985).
- Timmermans, M.C.P., Maliga, P., Vieira, J. and Messing, J. The pFF plasmids: cassettes utilizing CaMV sequences for expression of foreign genes in plants. *J. Biotechnology.* **14**, 333-344 (1990).
- Tobin E.M. and Silverthorne J. Light regulation of gene expression in higher plants. *Annu. Rev. Plant Physiol.* **36**: 569-593 (1985).
- Toki S., Takamatsu S., Nojiri C., Ooba S., Anzai H., Iwata M., Christensen A.H., Quail P.H. and Uchimia H. Expression of maize ubiquitin gene promoter-bar chimeric gene in transgenic rice plants. *Plants Physiol.* **100**: 1503-1507 (1992).

- Twell D. and Ooms G. The 5' flanking DNA of a patatin gene directs tuber-specific expression of a chimaeric gene in potato. *Plant Mol. Biol.* **9**: 345-375 (1987).
- Vaeck M., Reynaerts A., Hofte H., Jansens S., De Buckeleer M. and Dean L. Transgenic plants protected from insect attack. *Nature* **328**: 33-37 (1987).
- Van der Mark F. and Van der Ende H. Variable amounts of translatable ferritin mRNA in bean leaves with various iron contents. *Biochem. Biophys. Res. Commun.* **115**: 463-469 (1983).
- Vance C.P., Kirk T.K. and Sherwood R.T. Lignification as a mechanism of disease resistance. *Annu Rev. Phytopath* **18**: 259-296 (1980).
- Vasil V, Clancy M, Ferl R, Vasil IK and Hannah L.C. Increased gene expression by the first intron of maize shrunken-1 locus in grass species. *Plant Physiol* **91**: 1575-1579 (1989).
- Walker J.C. Was the Archaean biosphere upside down. *Nature* **329**: 710-712 (1987).
- Walmsley A.M and Arntzen C.J. Plants for delivery of edible vaccines. *Curr Opin Biotechnol.* **11**:126-129 (2000).
- Wang H., Datla R., Georges F., Loewen M. and Cutler A.J. Promoter from *kin1* and *cor6.6*, two homologous *Arabidopsis thaliana* genes: transcriptional and gene expression induced by low temperature, ABA, osmoticum and dehydration. *Plant Mol. Biol.* **28**: 605-617 (1995).
- Wang H., Qi M. and Cutler A.J. A simple method of preparing plant samples for PCR. *Nucl. Acid Res.* **21**: 4153-4154 (1995).
- Wang, H., Datla R., Georges F., Loewen M. and Cutler, A. Promoters from *kin1* and *cor6.6*, two homologous *Arabidopsis thaliana* genes: transcriptional regulation and gene expression induced by low temperature, ABA, osmoticum and dehydration. *Plant Molecular Biology* **28**, 605-617 (1996).
- Weinmann P., Gossen M., Hillen W., Bujard H. and Gatz C. A chimeric transactivator allows tetracycline-responsive gene expression in whole plants. *Plant J.* **5**: 559-569 (1994).

- West K.P.Jr., Katz J. and Khattry S.K. Double blind, cluster randomised trial of low dose supplementation with vitamin A or beta carotene on mortality related to pregnancy in Nepal. *BMJ*. **318**: 570-575 (1999).
- Wong E.Y., Hironaka C.M. and Fischhoff D.A. Arabidopsis thaliana small subunit leader and transit peptide enhance the expression of Bacillus thuringiensis proteins in transgenic plants. *Plant Mol Biol*. **20**: 81-93 (1992).
- Xu D., Xue Q., McElroy D., Mawal Y., Hilder V.A. and Wu R. Constitutive expression of a cowpea trypsin inhibitor gene CpTI in transgenic rice plants confers resistance to two major insect pests. *Mol. Breed*. **2**: 167-173 (1996).
- Yablonski M.J and Theil E.C. A possible role for the conserved trimer interface of ferritin in iron incorporation. *Biochemistry*. **31**: 9680-9684 (1992).
- Ye X., Al-Babili S., Klott A., Zhang J., Lucca P., Beyer P. and Potrykus I. Engineering the provitamin A (beta-carotene) biosynthetic pathway into (carotenoid-free) rice endosperm. *Science* **287**: 303-305 (2000).
- Yoshihara T and Takaiwa F. cis-regulatory elements responsible for quantitative regulation of the rice seed storage protein glutelin GluA-3 gene. *Plant Cell Physiol*. **37**: 107-111 (1996).
- Zang W., McElroy D. and Wu R. Analysis of rice Act1 5' region activity in transgenic plants. *Plant Cell*. **3**:1155-1165 (1991).
- Zhao Y., Leisy D.J. and Okita TW. Tissue-specific expression and temporal regulation of the rice glutelin Gt3 gene are conferred by at least two spatially separated cis-regulatory elements. *Plant Mol Biol*. **25**: 429-36 (1994).
- Zhu Q., Chappell J., Hedrick S. and Lamb C.J. Accurate invitro transcription by plant whole cell extracts from circularized plasmid templates. *Plant J*. **7**: 1021-1030 (1995).