

REFERENCES

- Allnutt, F.C.T., Kyle, D.J., Grossman, A.R. and Apt, K.E. (2000). Methods and tools for transformation of eukaryotic algae. *USA Patent no. 6027900*.
- Apt, K. E., Kroth-Pancic, P. G. and Grossman, A. R. (1996). Stable nuclear transformation of the diatoms *Cyclotella cryptica* and *Navicula saprophila*. *Journal of Phycology* 31:1004-1012.
- Armaleo, D., Ye, G.N., Klein, T. M., Shark, K. B., Sanford, J. C. and Johnston, S. A. (1990). Biolistic Nuclear Transformation of *Sacharomyces cerevistae* and other fungi. *Current Genetics* 17: 97-103.
- Ashton, W. D. 1972. The logit transformation with special reference to its uses in bioassay. New York Hafner Publication Corporation.
- Ask, E.I. (2003). Creating a sustainable commercial *Eucheuma* cultivation industry: the importance and necessity of the human factor. *Proceedings of the International Journal of Seaweed Symposium* 17:13-18.
- Auchincloss, A.H., Loroach A. I. and Rochaix J. D. (1999). The argininosuccinate lyase gene of *Chlamydomonas reinhardtii*: cloning of the cDNA and its characterization as a shuttle marker. *Molecular Genetics and Genomics*. 261: 21-30.
- Balch, J.F. and Balch, P.A. (1990). *Prescription for Nutritional Healing Garden City Park*. New York: Aver Publishing.
- Basu, S., Gerchman, Y., Collins, C.H., Arnold, F.H. and Weiss, R. (2005). A synthetic multicellular system for programmed pattern formation. *Letters to Nature* 434: 1130-1134.
- Bateman, J.M and Purton, S. (2000). Tools for Chloroplasts Transformation in *Chlamydomonas*: Expression Vectors and a New Dominant Selectable Marker. *Molecular Genetics and Genomics*. 263:404-410.
- Benfey, P.N. and Chua, N.H. (1989). Regulated Genes in Transgenic Plants. *Science* 244(4901): 174-181.
- Berthold, P., Schmitt, R., and Mages, W. (2002). An engineered *Streptomyces hygrosopicus aph 7* gene mediates dominant resistance against hygromycin B in *Chlamydomonas reinhardtii*. *Protist* 153: 401-412.
- Blakenship, E. and Kindle, K. (1999). Expression of chimeric genes by light-regulated *cabII-1* promoter in *Chlamydomonas reinhardtii*: a *cabII-1/nit1* gene functions as a dominant selectable marker in a *nit1 nit2* strain. *Molecular and Cellular Biology* 12: 5268-5279.

- Bold, H.C. and Wynne, M.J. (1978). Introduction to Algae: *Structure and Reproduction*. New Jersey: Prentice Hall.
- Borovsky, D. (2003). Trypsin-modulating oostatic factor: a potential new larvicide for mosquito control. *University of Florida Agricultural Experimental Station Journal* R-09502.
- Borowitzka MA. (1997). Microalgae for aquaculture: Opportunities and constraints. *Journal of Applied Phycology* 9: 393-401.
- Borowitzka, M.A. and Borowitzka, L.J. (1992). *Microalgal Biotechnology*. London: Cambridge University Press.
- Borowitzka, M.A. (1995). Microalgae as sources of pharmaceuticals and other biologically active compounds. *Journal of Applied Phycology* 7:3-15.
- Boynton, J.E., Gillham, E.H., Hosier, J.P., Johnson, A.R., Jones, B.L., Randolph-Anderson, B.L., Robertson, D., Klein, T.M., Shark, K.B. and Sanford, J.C. (1988). Chloroplast transformation in *Chlamydomonas* with high velocity microprojectiles. *Science* 240, 1534-1 538.
- Bradford, M.M (1976). Rapid and sensitive method for quantitation of microgram quantities of protein utilizing principle of protein dye binding. *Analytical Biochemistry* 72:248-254.
- Brown, L.E., Sprecher, S.L., Keller, L.R. (1991). Introduction of Exogenous DNA into *Chlamydomonas reinhardtii* by electroporation. *Molecular and Cellular Biology* 11: 2328-2332.
- Bundock, P., den Dulk-Ras, A., Beijerbergen, A. and Hooykaas, P.J.J. (1995). Transkingdom T-DNA transfer from *Agrobacterium* to *Saccharomyces Cerevisiae*. *European Molecular Biology Organization Journal* 14(3):3206.
- Campbell, N.A., Reece, J.B., and Simon, E.J. (2004). *Biology, International edition*. SanFrancisco: Pearson Benjamin Cummings.
- Campbell, N.A., Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V. and Jackson, R.S. (2008). *Biology 8th edition*. SanFrancisco: Pearson Benjamin Cummings.
- Cerutti,H., Johnson, A. M., Gillham, N. W. and Boynton, J. E. (1997). A eubacterial gene conferring spectinomycin resistance on *Chlamydomonas reinhardtii*; integration into the nuclear genome and gene expression. *Genetics* 145: 97-110.
- Chan, M. T., Chang, H.H. and Ho, S.L. (1993). *Agrobacterium*-mediated production of transgenic rice plants expressing a chimeric α -amylase promoter/ β -glucuronidase gene. *Plant Molecular Biology* 22:491

- Chang, M., Li, F., Odom, O.W., Lee, J. and Herrin, D.L. (2003). A cosmid vector containing a dominant selectable marker for cloning *Chlamydomonas reinhardtii* genes by complementation. *Plasmid* 49:75-78.
- Chen, Y., Wang, Y., Sun, Y., Zhang, L and Li, W. (2001). Highly Efficient Expression of Rabbit Neutrophil Peptide-1 Gene in *Chlorella ellipsoidea* cells. *Current Genetics*. 39: 365-370.
- Cheney, D. P. (2004). Genetic transformation of multicellular marine algae, resultant strains and their products. *PCT International Patent Application*. PCT/US00/10103.
- Cheney, D., B. Metz and J. Stiller, (2000). *Agrobacterium*-mediated genetic transformation in the macroscopic marine red alga *Porphyra yezoensis*. *Journal of Phycology* 37: 11.
- Cheng, L., Ziegelhoffer, P. and Yang, N.S. (1993). In Vivo Promoter Activity and Transgene Expression in Mammalian Somatic Tissues Evaluated by using Particle Bombardment. *Proceedings of National Academy Science* 90: 4455-4459.
- Chow, K.C and Tung, W.L. (1999). Electrotransformation of *Chlorella vulgaris*. *Plant Cell Reports* 18: 778-780.
- Chu, G., Hayakawa, H. and Berg, P. (1987). Electroporation for Efficient Transfection of Mammalian Cells with DNA. *Nucleic Acids Research* 15:1311-1325.
- Coll, J.M. (2006). Methodologies for transferring DNA into eukaryotic microalgae. *Spanish Journal of Agriculture Research* 4:316-330.
- Curtain, C. (2000). The growth of Australia's algal beta-carotene industry. *Australian Biotechnology* 10:19-23.
- Dawson, H.N., Burlingame, R and Cannons, A.C. (1997). Stable Transformation of *Chlorella*: Rescue of Nitrate Reductase-Deficient Mutants with the Nitrate Reductase Gene. *Current Microbiology* 35: 356-362.
- Debuchy, R., Purton, S. and Rochaix, J.D. (1989). 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. *European Molecular Biology Organization Journal* 8:2803-2809.
- Dhar, A.K and Allnutt, F.C.T. (2004). Protein and peptide expression for passive immunity. *U.S.A Patent no. 02886*
- Dunahay, T. G. (1993). Transformation of *Chlamydomonas reinhardtii* with silicon carbide whiskers. *Biotechnology* 15:452-460.
- Dunhay, T.G, Roessler, P.G. and Jarvis, E.E. (1997). Method to transform algae, material therefore, and products produced thereby. *U.S.A Patent No. (5)(661)(017)*.

- Eguchi K., Nagase, H., Ozawa, M., Endoh, Y.S., Goto, K., Hirata K., Miyamoto, K. and Yoshimura, H. (2004). Evaluation of antimicrobial agents for veterinary use in ecotoxicity test using microalgae. *Chemosphere* 57: 1733-1738.
- El.Sheekh, M.M. (1999). Stable transformation of the intact cells of *Chlorella kessleri* with high velocity microprojectiles. *Plant Biology* 42:209-216.
- El.Sheekh, M.M. (2000). Stable chloroplast transformation in *Chlamydomonas reinhardtii* using microprojectile bombardment. *Folia Microbiology* 45:496-504.
- El-Sheekh, M.M. (2005). Genetic Engineering of Eukaryotic Algae with Special reference to *Chlamydomonas*. *Turkish Journal of Biology* 29:65-82.
- Falciatore A. and Bowler C. (2002). Revealing the Molecular Secrets of Marine Diatoms. *Annual Review of Plant Physiology and Plant Molecular Biology* 53: 109-130.
- Falciatore, A., Casotti, R., Leblanc, C., Abrescia C. and Bowler C. (1999). Transformation of non-selectable reporter genes in marine diatoms. *Marine Biotechnology* 1:239-251.
- Fischer, H., Robl, I., Sumper, M., and Kröger, N. (1999). Targeting and covalent modification of cell wall and membrane proteins heterologously expressed in the diatom *Cylindrotheca fusiformis*. *Journal of Phycology* 35:113-120.
- Fisher, N. and Rochaix, J.D. (2001). The Flanking regions of *PsaD* drive efficient gene expression in the nucleus of the green alga *Chlamydomonas reinhardtii*. *Molecular Genetics and Genomics* 265:888-894.
- Fromm, M., Morrish, F., Armstrong, C., Williams, R., Thomas, J. and Klein, T.M. (1990). Inheritance and Expression of Chimeric Genes in the Progeny of Transgenic Maize. *Biotechnology* 8: 833-839.
- Friehs, K. and Gordon, K.F. (1993). Parameters influencing the productivity of recombinant *E. coli* cultivations. *Advances in Biochemical Engineering/Biotechnology* 48:53-77.
- Fuhrman, M., Oertel, W. and Hegemann, P. (1999). A synthetic gene coding for the green fluorescent protein (GFP) is a versatile reporter in *Chlamydomonas reinhardtii*. *Plant Journal* 19:353-361.
- Galun, E. and Breiman, A. (1998). *Transgenic plants*. London: Imperial College Press.
- Gan, S.Y. (2005). Development of a genetic transformation system for *Gracilaria changii* (Rhodophyta). PhD Thesis. Degree of Doctor of Philosophy. University of Malaya, Kuala Lumpur, Malaysia. 238p.

- Gan, S.Y., Qin, S., Othman, R.S., Yu, D. and Phang, S.M. (2003). Transient expression of *lacZ* in particle bombarded *Gracilaria changii* (Gracilariales, Rhodophyta). *Journal of Applied Phycology* 15: 351-353.
- Gatignol, A., Durand, H. and Tiraby, G. (1988). Bleomycin resistance conferred by a drug-binding protein. *Federation of European Biochemical Societies Letters* 230: 171-175
- Geng, D., Wang, Y., Wang, P., Li, W. and Sun, Y. 2003. Stable expression of hepatitis B surface antigen gene in *Dunaliella salina* (Chlorophyta). *Journal of Applied Phycology* 15: 451-456.
- Gordon-Kamm, W.J., Spencer, T.M., Mangano, M.L., Adams, T.R., Daines, R.J., Start, W.G. O'Brien, J.V., Chambers, S.A., Adams, W.R., Willetts, N.G., Rice, T.B., Mackey, C.J., Krueger, R.W., Kausch, A.P. and Lemaux, P.G. (1990). Transformation of maize cells and regeneration of fertile plants. *Plant Cell* 2: 603-618.
- Graham, L.E. and Wilcox, L.W. (2000). *Algae*. London: Prentice Hall.
- Guerin, M., Huntley, M.E., and Olaizola, M. (2003). *Haematococcus* astaxanthin: applications for human health and nutrition. *Tren Biotech* 21:210-216.
- Hall, L.M., Taylor, K.B. and Jones, D.D. (1993). Expression of a foreign gene in *Chlamydomonas reinhardtii*. *Genetics* 124: 75-81.
- Hansen, G., Shillito, R.T. and Chilton, M.D. (1997). T-strand integration in maize protoplasts after co-delivery of T-DNA substrate and virulence genes. *Proceedings of National Academy Science* 94:11726.
- Harris, E.H. (2001). *Chlamydomonas* as a model organism. *Annual Review of Plant Physiology and Plant Molecular Biology* 52:363-406.
- Hasnain, S.E., Manavathu, E.K. and Leung, W.C. (1985). DNA-Mediated Transformation of *Chlamydomonas reinhardtii* Cells: Use of Aminoglycoside 3'-Phospho-Transferase as a Selectable Marker. *Molecular and Cellular Biology* 512: 3647-3650.
- Hawkins, R.L and Nakamura, M. (1999). Expression of Human Growth Hormone by the Eukaryotic Alga, *Chlorella*. *Current Microbiology* 38: 335-341.
- Huang, X, Weber, J.C., Hinson, T.K., Mathieson, A. C. and. Minocha, S. C. (1996). Transient expression of the GUS reporter gene in the protoplasts and partially digested cells of *Ulva lactuca* L. (Chlorophyta). *Botanica Marina* 39:467-474.
- Huang, C.C., Chen, M.W., Hsieh, J.L., Lin, W.H., Chen, P.C. and Chien, L.F. (2006). Expression of mercuric reductase from *Bacillus megaterium* MB1 in eukaryotic microalga *Chlorella* sp. DT: an approach for mercury phytoremediation.

- Ishikura, K., Takaoka, Y., Kato, K., Sekine, M., Yoshida, K., and Shinmyo, A. (1999). Expression of a foreign gene in *Chlamydomonas reinhardtii* chloroplast. *Journal of Bioscience and Bioengineering* 87: 307-314.
- Jarvis, E.E. and Brown, L.M. (1991). Transient Expression of firefly luciferase in protoplast of the green alga *Chlorella ellipsoidea*. *Current Genetics* 19:317-321.
- Jefferson, R.A., Kavanagh, T.A. and Bevan, M.W. (1987). GUS fusions; beta glucuronidase as a sensitive and versatile gene fusion marker in higher plants. *European Molecular Biology Organization Journal* 6: 3901-3907.
- Jiang, P., Qin, S. and Tseng, C.K. (2003). Expression of the *lacZ* reporter gene in sporophytes of the seaweed *Laminaria japonica* (Phaeophyceae) by gametophyte-targeted transformation. *Plant Cell Report* 21:1211-1216.
- Kaepler, H.F., Somers, D.A., Rinse, H.W. and Cockbum, A.F. (1992). Silicon carbide fiber-mediated stable transformation of plant cells. *Theory of Applied Genetics* 84:560-566.
- Kim, D.H., Kim, Y.T., Cho, J.J., Bae, J.H. and Hur, S.B. (2002). Stable Integration and Functional Expression of Flounder Growth Hormone Gene in Transformed Microalga, *Chlorella ellipsoidea*. *Marine Biotechnology* 4: 63-73.
- Kim, K.S., Field, E., King, N., Yaoi, T., Kustu, S., and Inwood, W. (2005). Spontaneous mutations in the ammonium transport gene *AMT4* of *Chlamydomonas reinhardtii*. *Genetics* 170:631-644.
- Kindle, K.L. (1990). High frequency nuclear transformation of *Chlamydomonas reinhardtii*. *Proceedings of National Academy Science USA* 87: 1228-1232.
- Kirk D.L. (1998). *Volvox: Molecular genetic origins of multicellularity and cellular differentiation*. New York: Cambridge University Press.
- Klein, T., Arentzen, R., Lewis, P., and Fitzpatrick-Mcelligott, S. (1992). Transformation of microbes, plants, and animals by particle bombardment. *Biotechnology* 10: 286-291.
- Koncz, C., Nemeth, K., Redei, G.P. and Shell, J. (1994). *Homologous recombination and gene silencing in plants*. Netherlands :Kluwer, Dordrecht.
- Kumar, V.S., Misquitta, R.W., Reddy, V.S., Rao, B.J. and Rajam, M.V. (2004). Genetic Transformation of the Green Alga - *Chlamydomonas reinhardtii* by *Agrobacterium tumefaciens*. *Plant Science* 166: 731-738.
- Ladygin, V.G. (2004). Efficient transformation of mutant cells of *Chlamydomonas reinhardtii* by electroporation. *Process Biochemistry* 39:1685-1691.

- Lee, Y.K., Ding, S.Y., Low, C.S. and Chang, Y.C. (1995). Design and performance of an a-type tubular photobioreactor for mass cultivation of microalgae. *Journal of Applied Phycology* 7: 47-51.
- Leon-Banares, R., Gonzalez-Ballester, D., Aurora, G and Fernandez, E. (2004). Transgenic Microalgae as Green-Cell Factories. *Review Trends in Biotechnology* 22:1.
- Levring, T., Hoppe, H.A. and Schmid, O.J. (1969). *Marine Algae: A Survey of Research and Utilization*. Germany: Cram, De Gruter and Co.
- Lewin, R.A. (1962). *Physiology and Biochemistry of Algae*. New York: Academic Press.
- Llamas, A, Igeño, M.I., Galván, A. and Fernández, E. (2002). Nitrate signaling on the nitrate reductase gene promoter depends directly on the activity of the nitrate transport systems in *Chlamydomonas*. *Plant Journal* 30: 261-271.
- Lohuis, M.R.T and Miller, D.J. (1998). Genetic Transformation of Dinoflagellates (*Amphidinium* and *Symbiodinium*): Expression of GUS in Microalgae using Heterologous Promoter Constructs. *Plant Journal* 13 (3): 427-435.
- Louis E, Franchimont D, Piron A, Gevaert Y, Schaaf-Lafontaine N, Roland S, Mahieu P, Malaise M, De Groote D, Louis R, Belaiche J. (1998). Tumour necrosis factor (TNF) gene polymorphism influences TNF-alpha production in lipopolysaccharide (LPS)-stimulated whole blood cell culture in healthy humans. *Clinical and Experimental Immunology* 113(3):401-406.
- Luo, D and Saltzman, W. (2000). Synthetic DNA Delivery Systems. *Nature Biotechnology* 18: 33-37.
- Luthra, R., Varsha, V., Dubey, R., Srivastava, A. and Kumar, S. (1997). Microprojectile Mediated Plant Transformation: A *Bibliographical Search*. *Euphytica* 95: 269-294.
- Maruyama, M., Horokova, I., Honda, H., Xing, X-H., Shriragami, N., and Unno, H. (1994). Introduction of foreign DNA into *Chlorella saccharophila* by electroporation. *Biotechnology* 8:821-826.
- Mason, H.S., Lam, D.M.K and Arntzen, C.J. (1992). Expression of hepatitis B surface antigen in transgenic plants. *Proceedings of National Academy Science USA* 89: 11745-11749.
- Mayfield, S. and Kindle, K. (1990). Stable Nuclear Transformation of *Chlamydomonas reinhardtii* by using *C. reinhardtii* gene as a selectable marker. *Proceedings of National Academy Science USA* 87: 2087-2091.
- McCabe, D., Swain, W., Martinell, B., and Christou, P. (1988). Stable Transformation of Soybean (*Glycine max*) by Particle Bombardment. *Biotechnology* 6: 923-926.

- Mckee, T and Mckee, J.R. (2003). *Biochemistry: The Molecular Basis of Life*, 3rd ed. New York: MacGraw Hill.
- Meng, C. X., Teng, C.Y., Jiang, P., Qin S. and Tseng C.K. (2005). Cloning and characterization of beta-carotene ketolase gen promoter in *Haematococcus pluvialis*. *Acta Biochimica et Biophysica Sinica* 37: 270-275.
- Miller, P. W., Russel, B.L. and Schmidt, R.R. (1994). Transcription initiation site of a NADP-specific glutamate dehydrogenase gene and potential use of its promoter region to express foreign genes in ammonium-cultured *Chlorella sorokiniana* cells. *Journal of Applied Phycology* 6:211-223
- Minocha, S. C. (2003) Genetic engineering of seaweeds: current status and perspectives. *Proceedings of the International Journal of Seaweed Symposium* 17:19-26.
- Moore, B.S. (1999). Biosynthesis of marine natural products: microorganisms and macroalgae. *Natural Product Report Article* 16:653-674.
- Moriyama, E. N. (2003) Codon Usage: *Encyclopedia of Human Genome*. London: Macmillan Publishers Ltd, Nature Publishing Group.
- Nelson, J.A. and Lefebvre, P.A. (1995). Targeted disruption of the NIT8 gene in *Chlamydomonas reinhardtii*. *Molecular and Cellular Biology* 15:5762-5769.
- Nichols, H.W. and Bold, H.C. (1965). *Trichorsarcina* polymorph gen. et. sp. *Journal of Phycology* 1:34-38.
- Noutoshi, Y., Ito, Y. and Kanetani, S. (1998). Molecular anatomy of a small chromosome in the green alga *Chlorella vulgaris*. *Nucleic Acid Research* 26 (17): 3900-3907.
- Ohresser, M, Matagne, R.F. and Loppes, R. (1997). Expression of the arylsulphatase reporter gene under the control of the *nit1* promoter in *Chlamydomonas reinhardtii*. *Current Genetics* 31:264-271.
- Paulsen, N., Chesley, P.M. and Kroger, N. (2006). Molecular Genetic Manipulation of the Diatom *Thalassiosira pseudonana* (Bacillariophyceae). *Journal of Phycology* 42: 1059-1065.
- Phang, S.M. and Chu, W.L. (2004). The University of Malaya Algae Culture Collection (UMACC) and potential applications of a unique *Chlorella* from the collection. *The Japanese Journal of Phycology* 52: 221-224.
- Phang, S.M. (1990). Algal production from agro-industrial waste waters in Peninsular Malaysia. *AMBIO* 19: 415 418.
- Pickett-Heaps, J. (1975). *Green Algae: Structure, Reproduction and Evolution in Selected Genera*. Massachusetts: Sinauer Associates, Incorporated.

- Primrose, S., Twyman, R. and Old, B. (2001). *Principles of Gene Manipulation*, 6th edn. UK: Balckwell Science Limited.
- Qin, S., Jiang, P and Tseng C.T. (2004). Molecular biotechnology of marine algae in China. *Hydrobiologia* 512: 21-26.
- Qin, S., Jiang, P., Zou, L.H., Wu, Y. and Tseng, C.K. (1999). Review of genetic engineering of *Laminaria japonica* (Laminariales, Phaeophyta) in China. *Hydrobiologia* 398/399:469-472.
- Randold-Anderson, B., Boynton J.E. and Dawson, J.(1997). Submicron gold particles are superior to larger particles for efficient biolistic transformation of organelles and some cell types. *Bio-Rad Technology Bulletin* 2015.
- Saga, N. (1991). Protoplast and somatic hybridization-controversal discussion ‘No’ side. Proceeding of a COST-48 Workshop, Sapin: 25-30.
- Sambrook, J. and Russell, D.W. (2001) *Molecular Cloning: A Laboratory Manual*, 3rd ed. New York: Cold Spring Harbor Laboratory Press.
- Sanford, J.C., Smith F. D. and Russell, J.A. (1993). Optimizing the biolistics process for different biological applications. *Methods in Enzymology* 217:483-509.
- Satin, M. (2004). Microalgae (online). <http://www.fao.org/ag/ags/agsil/microalg.html>. [Accessed 17 July 2008]
- Sayre, R.T., Wagner, R.E., Siripornadulsil, S. and Farias, C. (2003). Transgenic algae for delivering antigens to an animal. *USA Patent Application* 2003/0211089.
- Schroda, M., Blöcker, D. and Beck, C. F. (2000). The HSP70A promoter as a tool for the improved expression of transgenes in *Chlamydomonas*. *Plant Journal* 21: 121-131.
- Sizova, I., Fuhrmann, M. and Hegemann, P. (2001). A *Streptomyces rimosus* aphVIII gene encoding for a new type phosphotransferase provides stable antibiotic resistance to *Chlamydomonas reinhardtii*. *Genetics* 277: 221-229.
- Skulberg O.M. (2000). Microalgae as a source of bioactive molecules-experince from cyanophyte research. *Journal of Applied Phycology* 12: 341-348.
- Smith, F., Herpending, P. and Sanford, J. (1992). Biolistic Transformation of Prokaryotes-Factors that Effect Transformation of Very Small Cells. *Journal of General Microbiology* 138:239-248.
- Steinbrenner, J and Sandman, G. (2006). Transformation of the Green Alga *Haemotococcus pluvialis* with a Phytoene Desaturase for Accelerated Astaxanthin Biosynthesis. *Applied and Environmental Microbiology* 72(12): 7477-7484.

- Stevens, D.R., Rocahix, D.J. and Purton, S. (1996). The bacterial phleomycin resistance gene *ble* as a dominant selectable marker in *Chlamydomonas*. *Molecular Genetics and Genomics* 251:23-30.
- Takeda, H. (1991). Sugar somposition of cell wall and the taxonomy of *Chlorella* (Chlorophyceae). *Journal of Phycology* 27:224-232.
- Tanaka, K., Yamada, A., Noda, K., Hasegawa, T., Okuda M., Shoyama, Y. and Nomoto, K. (1998). A novel of glycoprotein obtained from antimetastic immunopotential. *Cancer Immunology Immunotherapy* 45(6):313-320.
- Tang, D.K.H., Qiao, S.Y. and Wu, M. (1995). Insertion mutagenesis of *Chlamydomonas reinhardtii* by electroporation and heterologous DNA. *Biochemistry and Molecular Biology International* 36:1025-1035.
- Taylor, N.J and Fauquet, C.M. (2002). Microparticle Bombardment as a Tool in Plant Science and Agricultural Biotechnology. *DNA and Cell Biology* 21(12):963-977.
- Teng, C., Qin, S, Liu, J., Yu, D., Liang, C. and Tseng, C. (2002). Transient expression of *lacZ* in bombarded unicellular green alga *Haematococcus pluvialis*. *Journal of Applied Phycology* 14:497-500.
- Thanavala, Y., Mahoney, M., Pal, S., Scott, A., Rotcher, L., Natarajan, N., Goodwin, P., Arntzen, C.J., & Mason, H.S. (2005). Immunogenicity in humans of an edible vaccine for hepatitis B. *Immunology* 102(9): 3378-3382.
- Tolle, T.K., Glebe, D., Linder, M., Linder D., Schmitt, S., Geyer, R. and Gerlich, W.H. (1998) Structure and glycosylation patterns of surface proteins from woodchuck hepatitis virus. *Journal of virology* 72(12): 9978-9985.
- Tu, D.Z., Qin, S. and Zeng, C.K. (2002). Transient expression of *lacZ* reporter gene in economic seaweed *Undaria pinnatifida*. *High Technology Letters* 13:74-77 (in Chinese with English Abstract).
- Vasil, I.K. (1999). Advances in cellular and molecular biology of plants. (ed), *Molecular Improvement of Cereal Crops*. Great Britain: Kluwer Academic Publishers.
- Vines, A.E. and Rees, N. (1971) *Plant and Animal Biology*, Vol 1, 4th ed. Great Britain: Pitman Publication.
- Wakasugi, T., T. Nagai, M. Kapoor, M., Sugita ,M., Ito, M., Ito, S., Tsudzuki, J., Nakashima, K., Yoshinaga, K. and Sugiura, M. (1997) Complete sequencing of the chloroplast genome of the green alga *Chlorella vulgaris* reveals the existence of genes possibly involved in chloroplast division. *Proceedings of National Academy Science USA* 94: 5967-5972.
- Walker, J.M. and Rapley, R. (2000). *Molecular Biology and Biotechnology* , Fourth Edition. The Royal Society of Chemistry.

- Walker, T.L., Becker, D.K., Dale, J.L. and Collet, C. (2005). Towards the Development of a Nuclear Transformation System for *Dunaliella tertiolecta*. *Journal of Applied Phycology* 17: 363-368.
- Walker, T.L, Purton, S., Becker, D. K. and Collet, C. (2005). Microalgae as Bioreactors. *Plant Cell Report* 24: 629-641
- Wang, G.L. and Fang, H.J. (1998). Plant genetic engineering : Principle and Technique Beijing: Science Press.
- Wardburg, O. (1919). The velocity of the photochemical decomposition of carbon dioxide in the living cell. *Biochemistry* 100:230-270.
- Wei, L., Guangqin, G. and Guochang, Z. (2000). *Agrobacterium*-mediated transformation: state of the art and future prospect. *Chinese Science Bulletin*. 45(17):1537-1546.
- Xue, L., Pan, E., Jiang, G. and Wang, J. (2001). Transgenic *Dunaliella salina* as a bioreactor. *USA Patent Application* 2003/0066107.
- Zar, J.H. (1999). *Biostatistical Analysis*. New Jersey: Prentice Hall, International Incorporated.
- Zaslavskaiia, L.A. Lippmeier, J. C., Kroth, P., Grossman, A.R. and Apt, K.E. (2000). Transformation of the diatom *Phaeodactylum tricornutum*. *Journal of Phycology* 36:379-386.
- Zaslavskaiia, L.A., Lippmeier, J.C., Shih, C., Ehrhardt, D., Grossman, A.R., Apt, K. E. (2001). Trophic conversion of an obligate photoautotrophic organism through metabolic engineering. *Science* 292:2073-2075.