

CHAPTER SIX

LITERATURE CITED

- Abdel-Rahamn M.M. and Widholm M.J (2009)** Transformation of two plasmids into maize callus using particle bombardment. Agriculture Science and Enviromental Alexandria University Damanhour branch v.8,(2) 31-47.
- Aitchlson PA. Hacloed A3. Yeoman HM (1977)** In Street HE /ed/ Plant Tissue and Cell Culture. Giackwell. Oxford London Edinburgh Melbourne. Pp 267-306
- Anderson PC, Chomet PS, Griffor MC and Kriz AL (1997)** Anthranilate synthase gene and its use thereof. World Intellectual Property Organization, 97/26336.
- Armstrong C.L. (1999).**The first decade of maize transformation: a review and future perspective. Maydica, 44:101–109
- Armstrong, C.L.; Green, C.E. (1985)** Establishment and maintenance of friable, embryogenic maize callus and the involvement of L-proline. Planta, v.164, p.207-214.
- Ayaga G.O. (2003).** Maize yield trend in Kenya in the last 20 years. Paper presented at the regional workshop on declining Maize yield trend in Trans Nzoia district organized by Moi University. Centre Consortium. KARI Kitale and Ministry of Agriculture.
- Azzam, T., and DOMB, A.J. (2004).** Current developments in gene transfection agents. Curr. Drug Deliv. 1, 165–193.
- BiBM., M Kou ,SR Mao, HG Wang (2007).** Plant regeneration through callus initiation from mature embryo of *Triticum*. Plant Breed. 126: 9-12
- Bohlmann J, Lins T, Martin W. and Eilert U. (1996)** Anthranilate synthase from *Ruta graveolens*. Duplicated ASa genes encode tryptophansensitive and tryptophan-insensitive isoenzymes specific to amino acid and alkaloid biosynthesis. Plant Physiol 111:507–514
- Bohlmann J., V. DeLuca, U. Eilert, W. Martin, (1995)** Purification and cDNAcloning of anthranilate synthase from *Ruta graveolens*: modes of expres-sion and properties of native and recombinant enzymes, Plant J. 7 491–501.
- Bressani, R. (1991)** Protein quality of high-lysine maize for humans. Cereal Foods World 36:806–811

- Bressani, R. (1992)** Nutritional value of high-lysine maize in humans. In: Mertz, E.T., ed. *Quality Protein Maize*. St. Paul: American Association of Cereal Chemists; 205–225.
- Brettschneider, R.; Becker, D. and Lorz, H. (1997)** Efficient transformation of scutellar tissue of immature maize embryos. *Theor. Appl. Genet.* 94:737–748.
- Caligiuri M.G., R. Bauerle, (1991)** Identification of amino acid residues involved in feedback regulation of the anthranilate synthase complex from *Salmonella typhimurium*. Evidence for an amino-terminal regulatory site, *J. Biol. Chem.* 266 8328–8335.
- Carneiro, A.A.; Carneiro, N.P.; Carvalho, C.H.S.; Vasconcelos, M.J.V.; Lopes, M.A. and Paiva, E. Milho (2000)** Transgênico: melhoria da qualidade nutricional do grão. *Biotecnologia*, v.15, p.42-46.
- Chaleff, R. S., Carlson, P. S. (1974)** Somatic cell genetics of higher plants. *Ann. Rev. Genet.* 8: 267-278.
- Chang ML., Chen JC, Yeh CT, Chang MY, Liang CK, Chiu CT, Lin DY, Liaw YF (2008)** Gene gun bombardment with DNA-coated gold particles is a potential alternative to hydrodynamics-based transfection for delivering genes into superficial hepatocytes. *Hum Gene Ther* 19:391–395
- Cho HJ, Brotherton JE, Song H-S and Widholm JM (2000)** Increasing tryptophan synthesis in a forage legume *Astragalus sinicus* by expressing the tobacco feedback-insensitive anthranilate synthase (ASA2) gene. *Plant Physiol* 123:1069–1076.
- Cho H-J, Brotherton JE and Widholm JM (2004)** Use of the tobacco feedback-insensitive anthranilate synthase gene (ASA2) as a selectable marker for legume hairy root transformation. *Plant Cell Reports* 23:104-113.
- Christou P. (1992)** Genetic transformation of crop plants using microprojectile bombardment. *Plant J* 2:275–281
- Chu CC, Wang CC, Sun CS, Hsu C, Yin KC, Chu CY and Bi F (1975)** Establishment of efficient medium for anther culture of rice through comparative experiments on the nitrogen source. *Sci. Sinica.* 18:659-668.
- Crawford IP (1989)** Evolution of a biosynthetic pathway: the tryptophan paradigm. *Annu Rev Microbiol* 43:567–600.

- Day, P. R. (1977)** Plant genetics: increasing crop yield. *Science* 197: 1334-1339; A re- view article.
- Décima Oneto C, Bossio E, González G, Faccio P, Lewi D (2010)** High and low pressure gene gun devices give similar transformation efficiencies in maize calluses. *Afr. J. Plant Sci.*, 4(7): 217-225.
- D'Halluin. K., Bonne, E., Bossut, M,De Beuckel M Leemans, J.,(1992)** Transgenic maize plants by tissue electroporation. *Plant Cell*, 4:1495-1505.
- Dobson, J. (2006).** Gene therapy progress and prospects: Magnetic nanoparticle-based gene delivery. *Gene Ther.* 13, 283–287.
- Doyle J.J. and Doyle J.L., (1990)** Isolation of plant DNA from fresh tissue. *Focus* 12:13-15.
- Duncan D. R.; Williams M. E.; Zehr B. F. and Widholm J. M.(1985)** The production of callus capable of plant regenerations from immature embryos of numerous *Zea mays* L. genotypes. *Planta* 165: 322–332.
- Dunder, E.; Dawson, J.; Suttie, J. and Pace, G. (1995)** Maize transformation by microprojectile bombardment of immature embryos. In: Potrykus, I.; Spangenberg, G., eds. *Gene transfer to plants*. Berlin: Springer- Verlag; 127–138.
- El-Itriby HA, SK Assem ,EHA Hussein, FM Abdel-Galil, MA Madkour (2003).** Regeneration and transformation of Egyptian maize inbred lines via immature embryo culture and a Biolistic particle delivery system. In *Vitro Cell. Dev. Biol.-Plant* 39: 524-531.
- Frame B. R .Drayton, P. R., Bagnali. SV,Lewna C Bullock. W. P.. Wilson. H. M., Dunwell, J M., Th son. J.A., Wang, K., (1994)** Production of fertile transgenic maize plants by silicon carbide whisker mediated transformation. *Plant J.*, 6: 941 -948.
- Frame BR, JM McMurray ,TM Fonger ,ML Main, KW Taylor, FJ Torney, MM Paz, K Wang (2006)** Improved *Agrobacterium*-mediated transformation of three maize inbred lines using MS salts. *Plant CRep.*25:1024-1034
- Frame BR, Shou H, Chikwamba RK, Zhang Z, Xiang C, Fonger TM, Green CE and Phillips RL (2002).** Plant regeneration from tissue culture of maize. *Crop Sci.* 15: 417-421.

- Fromm, M. E., Morrish, F., Armstrong, C. William R. Thomas, J. Klein, TM., (1990).** Inheritance and expression of chimeric genes in the progeny of transgenic maize plants *Bio/technology*, 8:833-839
- Gewin V. (2003)** Genetically modified corn — environmental benefits and risks. *Plos Biol*; 1:15–9.
- Gordon-Kamm W.J., Spencer T.M., Mangano M.L., Adams T.R., Daines R.J., Strat W.G., O'Brian J.V., Chambers S.A., Adams J.W.R., Willets N.G., Rice T.B., Mackey C.J., Krueger W., Kausch A.P., and Lemaux P.G.(1990)** Transformation of maize cells and regeneration of fertile transgenic plants. *Plant Cell*, 2: 603–618
- Gordon-Kamm, W. J.; Baszczynski, C. L.; Bruce, W. B. and Tomes, D. T. (1999)** Transgenic Cereals—*Zea mays* (maize). In: Vasil, I. K., ed. Molecular improvement of cereal crops. Great Britain: Kluwer Academic Publishers:189–253.
- Graf R., B. Mehmman, G.H. Braus, (1993)** Analysis of feedback-resistant anthranilatesynthases from *Saccharomyces cerevisiae*, *J. Bacteriol.* 175.1061–1068.
- Green C.E., R.L. Phillips, R.A. Kleese, (1974)** Tissue cultures of maize (*Zea mays* L.): initiation, maintenance and organic growth factors. *Crop Sci.* 14: 54-58.
- Green C.E. and Phillips R.L. (1975)** Plant regeneration from tissue cultures of maize. *Crop Sci* 15: 417-420.
- Hitter, R., Niederberger, R. and DeMoss, J. A. (1986)** *Ann. Rev. Microbiol.* 40, 55.
- Haagen-Smit A.J., R. SIU, G. Wilson, (1945)** A method for the cul-turing of excised, immature corn embryos in vitro. *Science* 101: 234.
- Haseloff J, Siemering K, Prasher C, Hodge S (1997).** Removal of a cryptic intron and subcellular localisation of green fluorescent protein are required to mark transgenic *Arabidopsis* plants brightly. *Proc. Natl. Acad. Sci., USA* 94, 2122-2127.
- Haslam E. (1993)** Shikimic acid: metabolism and metabolites. Wiley, Chichester.
- Henner, K. J., Band, L. and Shimotsu, H. (1984)** *Gene* 34, 169.

- Herrera -Estrella, L.; Simpson, J. and Martineztrujillo, M. (2005)** Transgenic plants: an historical perspective. *Methods of Molecular Biology*, v.286, p.3-32.
- Hodges, T.K., Kamo, K.K., Imbrie, C.W., and Becwar, M.R. (1986).** Genotype specificity of somatic embryogenesis and regeneration in maize. *Biofitechnol.* 4, 219-223.
- Hodges, TK., KK. Kamo ,CW Imbrie ,MR Becwar (1986).** Genotype specificity of somatic embryogenesis and regeneration in maize. *Biotechnology* 4: 219-224
- Holloway, B. W., Krishnapillai,V.andMorgan, A. F.(1979)** *Microbiol.Rev.*43, 73.
- Horsch RB, Fry JE, Hoffmann N, Wallroth M, Eichholtz D, Rogers SG, Fraley RT (1985)** Transferring genes into plants. *Science*227:1229–1331.
- Horsch, RB .Fry, J.E. Ho. fffmann. NL . Eichholtz D,Rogers. S.G ,Fraley. RT., (1985)** A simple and general method for transferring genes into plants. *Science*, 227:1229 -1 231
- Jaliya, A. M., A. M. Falaki, M. Mahmud and Y. A. Sani (2008).** Effects of sowing date and NPK fertilizer rate on yield and yield components of quality protein maize (*Zea mays* L.). *ARPJ. Agric. Biological Sci.*, 2:23-29.
- Jefferson A, Kavanagh T, Bevan M (1987).** GUS fusions: B glucuronidase as a sensitive and versatile gene fusion marker in higher plants. *Embo J.*, 6(13): 3901-3907.
- Johnson, A. W. B., Bibb, M. J. and Beringer, J. E. (1978)** *Mol. Gen. Genet.* 165, 323.
- Johnston, S.A., and Tang, D.C. (1994).** Gene gun transfection of animal cells and genetic immunization. *Methods Cell Biol.* 43,353–365.
- JW Danson ,M Lagat, M Mbogori (2006).** Screening tropical maize lines for the production and regeneration of friable and embryogenic Type II callus. *Afr. J. Biotechnol.* 5(23): 2367-2370.
- Kawamura, M., Keim, P. S., Goto, Y., Zalkin, H. and Heinrikson, R. L. (1978)** *J. Biol. Chem.* 253, 4659.

- Kemble R (2006)** Plant-produced enzymes for improved animal nutrition and bioethanol processing. Agric. Biotechnol. Inter. Conf. Melbourne Australia.
- Kikkert, J. R. (1993)** The Biolistic® PDS-1000/He device. Plant Cell Tiss. Org. Cult. 33, 221–226
- King P., Potrykus Z., Thomas E. (1978)** Genetically transformed maize plants from protoplasts. Science , 240: 204- 207. Physiol Veg 16:381-399
- Klein TM, Wolf, ED., Wu R., Sanford JC. (1987)** High-velocity microprojectiles for delivering nucleic acids into living cells. Nature 327:70–73
- Klein, T.M.; Fromm, M.E.; Weissinger, A.; Tomes, D.; Schaff, S.; Sletten, M. and Sanford, J.C.(1988)** Transfer of foreign genes into intact maize cells using high velocity microprojectiles. Proceedings National Academy of Science of the United States of America, v.85, p.4305-4309, 1988
- Kozziel, M. G.; Beland, G. L.; Bowman, C.; Carozzi, N. B.; Crenshaw, R.; Crossland, L.; Dawson, J.; Desai, N.; Hill, M.; Kadwell, S.; Launis, K.; Lewis, K.; Maddox, D.; McPherson, K.; Meghji, M.; Merlin, E.; Rhodes, R.; Warren, G.; Wright, M. and Evola, S. (1993)** Field performance of elite transgenic maize plants expressing an insecticidal protein derived from *Bacillus thuringiensis*. Bio/Technology 11:194–200.
- Larue C.D., (1936)** The growth of plant embryos in culture. Bull. Torrey Bot. Club 63: 365-382.
- Larue C.D., (1952)** Growth of the scutellum of maize in culture. Science 115: 315-316.
- Lee M., R.L. Phillips, (1987)** Genomic rearrangements in maize induced by tissue culture. Genome 29: 122-128.
- Leffel S., Mabon S., Stewart C., (1997)** Application of green fluorescent protein in plants. Biotechniques, 23, 912-918.
- Li J, Last RL (1996)** The *Arabidopsis thaliana* trp5 mutant has a feedback-resistant anthranilate synthase and elevated soluble tryptophan. Plant Physiol 110:51–59

- Lorence, A. and Verpoorte, R. (2004)** Gene transfer and expression in plants. In: TUAN, R.S. Recombinant gene expression: reviews and protocols. 2nd ed. Totowa: Humana Press, p.329-350.
- Lu C., IK Vasil, P Ozias-Akins (1982)** Somatic embryogenesis in *Zea mays* L. *Theor Appl Genet* 62:109-112
- Martindale W, Trewavas (2004)** A. Fuelling the 9 billion. *Nat Biotechnol* 2008; 26:1068–70. Melé E, Ballester J, Peñas G, Folch I, Olivar J, Alcalde E, Messeguer J. First results of co-existence study. *Eur Biotechnol Sci Indust News*;3:8.
- Matsui K., K. Miwa, K. Santo, (1987)** Two single-base-pair substitutions causing desensitization to tryptophan feedback inhibition of anthranilate synthase and enhanced expression of tryptophan genes of *Brevibacterium lactofermentum*, *J. Bacteriol.* 169 5330–5332.
- Mitchell D. (2008)** A note on rising food prices. World Bank policy research working paper 4682. Washington DC: World Bank;.
- Murashige T and Skoog F (1962).** A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Plant Physiol.* 15: 473-479.
- Murashige, T. (1978)** The impact of plant tissue culture on agriculture. Thorpe, T. A., ed. *Frontiers of plant tissue culture*. Calgary (Alberta, Canada): The International Association for Plant Tissue Culture;: 15-26. A review article in the proceedings of a meeting of the IAPTC.
- NCGA National (2008)** Corn Growers Association. U.S. corn growers: producing food and fuel. Chester field, MO:NCGA; 2008. <http://www.ncga.com/files/pdf/FoodandFuelPaper10-08.pdf>.
- Nester E.W ,Kosuge, T, (1981).** Plasmids specify in plant hyperplasias. *Annu Rev. Microbiol* 35: 531.-565
- Nickell, L. G.; Torrey, J. G. (1969)** Crop improvement through plant cell and tissue culture. *Science* 166: 1068-1070; . A review article.
- Nishikawa, M., and Huang, L. (2001).** Nonviral vectors in the new millennium: Delivery barriers in gene transfer. *Hum. Gene Ther.* 12, 861–870.
- Niyogi, K. K. and Fink, G. R. (1992)** *Plant Cell* 4, 721.

- Niyogi, K. K., Last, R. L., Fink, G. R. and Keith, B. (1993)** Plant Cell 5, 1011.
- Noguchi H. Matsumoto T, Hlrata Y, Yamamoto K. Katsuyama A. Kato A. Azechi S. Kato (1977)** In: Barz W. Reinhard E. Zenk HH /ed/ Plant Tissue Culture and its Bio- logical Application. Springer. Berlin Heidelberg New York. pp 85-94
- Normanly J., J.D. Cohen, G.R. Fink, (1993)** Arabidopsis thaliana auxotroph reveal a tryptophan-independent biosynthetic pathway for indole-3-acetic acid, Proc. Natl. Acad. Sci. USA 90
- Normanly J., J.P. Slovin, J.D. Cohen, (1995)** Rethinking auxin biosynthesis and metabolism, Plant Physiol. 107 323–329.
- O’Kennedy, M.M.; Burger, J.T.; Berger, D.K. (2001)** Transformation of elite white maize using the particle inflow gun and detailed analysis of a low-copy integration event. Plant Cell Rep. 20:721–730;.
- Pareddy, D.; Petolino, J.; Skokut, T.; Hopkins, N.; Miller, M.; Welter, M.; Smith, K.; Clayton, D.; Pescitelli, S. and Gould, A. (1997)** Maize transformation via helium blasting. Maydica 42:143–154.
- Poulsen C., R.J.M. Bongaerts, R. Verpoorte, (1993)** Purification and characterization of anthranilate synthase from *Catharanthus roseus*, Eur. J. Bio-chem. 212 431–440.
- Radwanski ER and Last RL (1995)** Tryptophan biosynthesis and metabolism: biochemical and molecular genetics. Plant Cell 7:921–934
- Ramessar K, Sabalza M, Capell T, Christou P.(2008a)** Maize plants: an ideal production platform for effective and safe molecular pharming. Plant Sci a;174:409–19.
- Rasco-Gaunt S, Riley A, Barcelo P, Lazzeri PA (1999).** Analysis of particle bombardment parameters to optimise DNA delivery into wheat tissues. Plant Cell Reports 19: 118–127
- Rhodes. C. A., Pierce, D. A. Mettler. I.J .Mascaren D. Detmer. J. J., (1988)**
- Romero RM, Roberts MF and Phillipson JD (1995)** Anthranilate synthase in microorganisms and plants. Phytochemistry 39:263–276

- Sambrook, J.; Fritsch E.F. and Maniatis, T.(1989)** Molecular cloning: a laboratory manual. 2nd ed. New York: Cold Spring Harbor Laboratory Press.
- Sanford, J. C. (2000)** The development of the biolistic process. In Vitro Cell. Dev.Biol. Plant 36, 303–308
- Sanford, J. C., Klein, T. M, Wolf, E. D., and Allen, N. (1987).** Delivery of sub-stances into cells and tissues using a particle bombardment process. Particulate Sci. Technol. 5, 27–37.
- Sawula, R. V. and Crawford, I. P. (1972)** J. Bacteriol. 112, 797.
- Sawula, R. V. and Crawford, I. P. (1973)** J. Biol. Chem. 248, 3573.
- Shillito R.D., G.K. Caswell, C.M. Johnsons, J.J. Dimiao, C.T.Harms, (1989)** Regeneration of fertile plants from proto plasts of elite inbred maize. Bio/Technology 7: 581-587.
- Shinomiya, T., Shiga, E. and Kageyama, M. (1983)** Mol. Gen. Genet. 189, 382.
- Shoemaker R, Harwood J, Day-Rubenstein , Dunahay T, Heisey P, Hoffman L, Klotz-Ingram C, Lin W, Mitchell L, McBride W, Fernandez-Cornejo J (2001).** Economic issues in agricultural biotechnology. In: Agriculture Information Bulletin No. AIB762.Econ. Res. Service, US Department of Agriculture, p. 64.
- Shou H., Frame B.R., Whitham S.A., and Wang K. (2004).** Assessment of transgenic maize events produced by particle bombardment or Agrobacterium-mediated transformation. Mol Breeding, 13: 201–208
- Singh M and Widholm JM (1974)** Measurement of the five enzymes which convert chorismate to tryptophan in wheat plants (*Triticum aestivum* L.). Physiol Plant 32:362–366
- Smith, H. H.** Model systems for somatic plant genetics. Bioscience 24: 269-276; 1974. A review article.
- Songstad D.D., C.L. Armstrong, W.L. Peterson, (1991)** AgNO₃ increases type II callus production from immature embryos of maize inbred B73 and its derivatives. Plant Cell Rep. 9: 699-702.
- Songstad, D. D.; Armstrong, C. L.; Peterson, W. L.; Hairston, B. and Hinchey, M. A. W.(1996)** Production of transgenic maize plants and

progeny by bombardment of Hi-II immature embryos. In Vitro Cell. Dev. Biol. –Plant 32:179–183.

Sprague, G. F.; Alexander, D. E.; Dudley, J. W. (1980) Plant breeding and genetic engineering: a perspective. Bioscience 30: 17-21; A review article.

Street, H. E. (1977) Introduction. Street, H. E., ed. Plant tissue and cell culture, 2nd ed., Botanical Monographs, Volume II. Berkeley: University of California Press; 11-30. An excellent introduction to plant tissue culture.

Tomes, D. T., Smith, O. S. (1985). The effect of parental genotype on initiation of embryogenic callus from elite (*Zea mays* L.) germplasm. In: Theoretical and Applied Genetics, vol. 70 (5), p. 505–509.

Tozawa Y, Hasegawa H, Terakawa T and Wakasa K (2001) Characterization of rice anthranilate synthase α -subunit genes OASA1 and OASA2. Tryptophan accumulation in transgenic rice expressing a feedback-insensitive mutant of OASA1. Plant Physiol 126: 1493-1506.

Tsuji J., M. Zook, S.C. Somerville, R.L. (1993). Last, Hammerschmidt, Evidence that tryptophan is not a direct biosynthetic intermediate of camalexin in *Arabidopsis thaliana*, Physiol. Mol. Plant Pathol. 43 221–229.

Tsuji J., M. Zook, S.C. Somerville, R.L. Last, R. (1993) Hammerschmidt, Evidence that tryptophan is not a direct biosynthetic intermediate of camalexin in *Arabidopsis thaliana*, Physiol. Mol. Plant Pathol. 43 221/229

Vain P, Yean H, Flament P. (1989) Plant Cell Tissue Org Cult 18:143-151.

Vain P (2007) Thirty years of plant transformation technology development. Plant Biotechnol J 5:221–229

Vain, P; McMullen, M.D and Finer, J.J. (1993) Osmotic treatment enhances particle bombardment Plant Cell Report 12:84-88.

Valdez-Ortiz A., Medina-Godoy S., Valverde M.E., and Paredes-Lopez O. A (2007). transgenic tropical maize line generated by the direct transformation of the embryo-scutellum by *A. tumefaciens*. *Plant cell, tissue and organ culture*, 91: 201-214

- Vasil V, Brown SM, Re D, Fromm ME and Vasil IK (1991)** Stably transformed callus lines from microprojectile bombardment of cell-suspension cultures of wheat. *Biotechnology* 9:743–747
- Vega JM, Yu W, Kennon A, Chen X, Zhang Z (2008).** Improvement of *Agrobacterium*-mediated transformation in Hi-II maize (*Zea mays*) using standard binary vectors. *Plant Cell Rep* 27: 297–305 DOI 10.1007/s00299-007-0463-z
- Wang A. (1987).** Callus induction and plant regeneration from maize mature embryos. *Plant Cell Rep.*, 6: 360-362.
- Wang H., (2008)** “Study on Callus Induction of Maize Inbred Line 4112 from Immature Embryos with Different Induction Medium,” *Journal of Anhui Agricultural Sciences*, vol.36, no.30, pp.13046-13047,.
- Wang S., (2008)** “Transformation, Inducing and High-Frequency Regeneration of Embryogenic Callus Initiated from Mature Embryos of Maize (*Zea mays* L.),” *Acta Agronomica Sinica*, vol.34, no.3, pp423-428,
- Watson SA. (1987)** Structure and composition. In: Watson SA, Ramstad PT, editors. *Corn: chemistry and technology*. St. Paul, MN: American Association of Cereal Chemists; p. 53–82
- Wells, D.J. (2004).** Gene therapy progress and prospects: electroporation and other physical methods. *Gene Ther.* 11, 1363–1366.
- Widholm, J.M. (1974)** Control of aromatic amino acid biosynthesis in cultured plant tissues: effect of intermediates and aromatic amino acids on free levels. *Physiol Plant* 30:13–18
- Widholm, J.M. (1981)** Utilization of indole analogs by carrot and tobacco cell tryptophan synthase *in vivo* .
- Willman M.R., S.M. Schroll, T.K. Hodges, (1989)** Inheritance of somatic embryogenesis and plantlet regeneration from primary (Type I) callus in maize. *In Vitro Cell Dev. Biol. Plant.*25: 95-100.
- Wolff, J.A., and Budker, V. (2005).** The mechanism of naked DNA uptake and expression. *Adv. Genet.* 54, 3–20.
- Wright A.D., M.B. Sampson, M.G. Neuffer, L. Michalczuk, J.P.Slovin, J.D. Cohen, (1991)** Indole-3-acetic acid biosynthesis in the mutant maize orange pericarp, a tryptophan auxotroph, *Science* 254 998/1000.

- Xiang Y. (2007)**, “Establishment of Plant Regeneration System from Mature Embryos of Maize Elite Inbred Lines,” *Acta Laser Biology Sinica*, vol.16, no.5, pp.649-654,.
- Yanofsky, C., Platt, T., Crawford, I. P., Nichols, B. P., Christie, G. E., Horowitz, H., van Cleemput, M. and Wu, A. M. (1981)** *Nucleic Acids Res.* 9, 6647.
- Zaikin, H. (1985)** Purification and cDNA cloning of anthranilate synthase from *Ruta graveolens*. *Methods Enzymol.* 113, 287.
- Zenk, M. H. (1978)** The impact of plant cell culture on industry. Thorpe, T. A., ed. *Frontiers of plant tissue culture*. Calgary (Alberta, Canada): The International Association for Plant Tissue Culture; 1-14. A review article.
- Zhang, S., Williams-Carrier, R., Lemaux, P. G. (2002)** Transformation of recalcitrant maize elite inbreds using in vitro shoot meristematic cultures induced from germinated seedlings. *Plant Cell Rep.* 21:263–270.