

DAFTAR PUSTAKA

- Afidah, Siti Nurul, Inyana Agustien, Parawita Dewanti, and Bambang Sugiharto. 2022. "Increased Activity of Sugarcane Sucrose-Phosphate Synthase in Transgenic Tomato in Response to N-Terminal Truncation." *Indonesian Journal of Biotechnology* 27(1):43–50. doi: 10.22146/ijbiotech.69337.
- Aftab, N., K. Saleem, A. H. A. Khan, T. A. Butt, C. R. Mirza, J. Hussain, G. Farooq, A. Tahir, S. Yousaf, M. I. Zafar, I. Nawaz, and M. Iqbal. 2021. "Cosmos Sulphureus Cav. Is More Tolerant to Lead than Copper and Chromium in Hydroponics System." *International Journal of Environmental Science and Technology* 18(8):2325–34. doi: 10.1007/s13762-020-02981-w.
- Agustamia, Christine, Ani Widiyastuti, and Christanti Sumardiyono. 2016. "Pengaruh Stomata Dan Klorofil Pada Ketahanan Beberapa Varietas Jagung Terhadap Penyakit Bulai." *Jurnal Perlindungan Tanaman Indonesia* 20(2):89–94.
- Ali, Mohammad, Bilal Haider Abbasi, Nisar Ahmad, Syed Shujait Ali, Shahid Ali, and Gul Shad Ali. 2016. "Sucrose-Enhanced Biosynthesis of Medicinally Important Antioxidant Secondary Metabolites in Cell Suspension Cultures of *Artemisia Absinthium* L." *Bioprocess and Biosystems Engineering* 39(12):1945–54. doi: 10.1007/s00449-016-1668-8.
- Alvarez, Maria alejandra. 2015. *Genetic Transformation*. Rijeka: Janeza Trdine.
- Amperawati, Suharyani, Pudji Hastuti, Yudi Pranoto, and Umar Santoso. 2019. "Efektifitas Frekuensi Ekstraksi Serta Suhu Dan Cahaya Terhadap Antosianin Dan Daya Antioksidan Ekstrak Kelopak Rosela (*Hibiscus Sabdariffa* L.)." *Jurnal Aplikasi Teknologi Pangan* 8(1):38–45.
- Andini, A. .. 2011. "Anatomi Jaringan Daun Dan Pertumbuhan Tanaman *Celosia Cristata*, *Catharanthus Roseus*, Dan *Gomphrena Globosa* Pada Lingkungan Udara Tercemar." IPB, Bogor.
- Anur, Risky Mulana, Nurul Mufithah, Widhi Dyah Sawitri, Hitoshi Sakakibara, and Bambang Sugiharto. 2020. "Overexpression of Sucrose Phosphate Synthase Enhanced Sucrose Content and Biomass Production in Transgenic Sugarcane." *Plants* 9(2):1–11. doi: 10.3390/plants9020200.
- Bartholmes, Conny, Pia Nutt, and Guntur Theiben. 2008. "Gerline Transformation of Shepherd's Purse (*Casella Bursa-Pastoris*) by the Floral Dip Method as Tool for Evolutionary and Developmental Biology." *Gene* 409:11–19. doi: 10.1016/j.gene.2007.10.033.
- Bastaki, Nasmah K., and Christopher A. Cullis. 2014. "Floral-Dip Transformation of Flax (*Linum Usitatissimum*) to Generate Transgenic Progenies with a High Transformation Rate." *Journal of Visualized Experiments* (94):1–10. doi: 10.3791/52189.
- Bennett, R. N., and R. M. Wallsgrove. 1994. "Secondary Metabolites in Plant Defence Mechanisms." *New Phytol* 127:617–33. doi: 10.1111/j.1469-8137.1994.tb02968.x.
- Bent, Andrew. 2006. *Arabidopsis Thaliana Floral Dip Transformation Method*. Vol. 343. Humana Press.

- Chen, Ren, Mayumi Gyokusen, Yoshihisa Nakazawa, Yinquan Su, and Koichiro Gyokusen. 2010. "Establishment of an *Agrobacterium*-Mediated Transformation System for *Periploca Sepium* Bunge." *Plant Biotechnology* 27(2):173–81. doi: 10.5511/plantbiotechnology.27.173.
- Chetty, V. J., N. Ceballos, D. Garcia, J. Narváez-Vásquez, W. Lopez, and M. L. Orozco-Cárdenas. 2013. "Evaluation of Four *Agrobacterium Tumefaciens* Strains for the Genetic Transformation of Tomato (*Solanum Lycopersicum* L.) Cultivar Micro-Tom." *Plant Cell Reports* 32(2):239–47. doi: 10.1007/s00299-012-1358-1.
- Chumakov, M. I., and E. M. Moiseeva. 2012. "Technologies of *Agrobacterium* Plant Transformation In Planta." *Appl. Biochem. Microbiol* 48:657–666.
- Chumakov, M. I., N. A. Rozhok, V. A. Velikov, V. S. Tyrnov, and I. V. Volokhina. 2006. "Agrobacterium-Mediated in Planta Transformation of Maize via Pistil Filaments." *Russian Journal of Genetics* 42(8):893–97. doi: 10.1134/S1022795406080072.
- Clough, J. Steven, and Andrew F. Bent. 1998. "Floral Dip a Simplified Method for *Agrobacterium*-Mediated.Pdf." *The Plant Journal* 16(6):735–43.
- Curtis, I. S., and H. G. Nam. 2001. "Transgenic Radish (*Raphanus Sativus* L. Longipinnatus Bailey) by Floral-Dip Method - Plant Development and Surfactant Are Important in Optimizing Transformation Efficiency." *Transgenic Research* 10:363–71. doi: 10.1023/A:1016600517293.
- Davis, Amanda M., Anthony Hall, Andrew J. Millar, Chiarina Darrah, and Seth J. Davis. 2009. "Protocol: Streamlined Sub-Protocols for Floral-Dip Transformation and Selection of Transformants in *Arabidopsis Thaliana*." *Plant Methods* 5(3):1–7. doi: 10.1186/1746-4811-5-3.
- Denkovskiene, Erna, Sarunas Paskevicius, Stefan Werner, Yuri Gleba, and Ausra Razanskiene. 2015. "Inducible Expression of *Agrobacterium* Virulence Gene VirE2 for Stringent Regulation of T-DNA Transferin Plant Transient Expression Systems." *MPMI* 28(11):1247–55. doi: 10.1094/MPMI-05-15-0102-R.
- Dewanti, Parawita, Purnama Okviandari, and Bambang Sugiharto. 2012. "Kajian Sifat Agronomi Tanaman Tomat (*Lycopersicum Esculentum*) Hasil Inseri Gen SoSPS1 (Sucrose Phosphate Synthase)." Pp. 433–38 in *Pros. Sem Nas Perhorti*.
- Fatumi, Nor Chamida. 2020. "PENGEMBANGAN METODE TRANSFORMASI GENETIK SECARA IN PLANTA PADA TANAMAN KOSMOS (*Cosmos Sulphureus* Cav.)." [Skripsi] Universitas Gadjah Mada. Yogyakarta.
- Fibriani, Suwinda, Inyana Agustien, Widhi Dyah Sawitri, and Bambang Sugiharto. 2019. "Genetic Transformation and Expression of Sucrose Phosphate Synthase Mutant in Tomato Plant." *J. Bioteknol Biosains Indones* 6(1):134–43.
- Gobotany. 2019. "Cosmos Sulphureus-Sulphur Cosmos." <https://Gobotany.Nativeplanttrust.Org/Species/Cosmos/Sulphureus/>. Retrieved (https://gobotany.nativeplanttrust.org/species/cosmos/sulphureus/).

- Handayani, E., M. B. Irsyadi, R. L. M. N. Alawiyah, and I. Aris. 2022. "Effect of Explants Sterilization and Plant Growth Regulators on Embryo Culture of Kepel (*Stelechocarpus Burahol*)." *IOP Conference Series: Earth and Environmental Science* 985(012016). doi: 10.1088/1755-1315/985/1/012016.
- Handayani, Etty, M. Burhanuddin Irsyadi, Irfan Aris, R. L. M. N. Alawiyah, Nandini Kusumaningtyas, Fany Permatasari, and innaka ageng Rineksane. 2021. "Optimasi Sterilisasi Endosperma Kepel (*Stelechocarpus Burahol* [BI] Hook f. & Th) Secara in Vitro." *Bio-Edu: Jurnal Pendidikan Biologi* 6(2):113–21. doi: 10.32938/jbe.v6i2.1179.
- Handayani, Tri. 2013. "KONSTRUKSI VEKTOR BINER DAN TRANSFORMASI GEN LISOZIM PADA RUMPUT LAUT *Kappaphycus Alvarezii* MENGGUNAKAN PERANTARA *Agrobacterium Tumefaciens*." [Tesis]. IPB University. Bogor.
- Hasidah, Mukarlina, and D. W. Rousdy. 2017. "Kandungan Pigmen Klorofil, Karotenoid Dan Antosianin Daun *Caladium*." *Jurnal Probiot* 6(2):29–37.
- Hilmi, Mhd Irfan, Taryono, and Rahmi Sri Sayekti. 2020. "CHARACTERIZATION OF COSMOS (*Cosmos* Spp .) ACCESSIONS FROM THE SPECIAL REGION OF YOGYAKARTA AND RIAU ORIGIN." *Agrinova: Journal of Agriculture Innovation* 3(1):1–5. doi: 10.22146/a.58345.
- Imaniar, Rizki, Latifah, and Warlan Sugiyo. 2013. "Ekstraksi Dan Karakterisas Senyawa Bioaktif Dalam Daun Kenikir Sebagai Bahan Bioimsektisida Alami." *Indonesian Journal of Chemical Science* 2(1):51–55.
- Intani, E. T. T. 2012. "Keanekaragaman Morfologi Daun Penghijauan Di Jalan Perintis Kemerdekaan Makassar." [Skripsi]. Universitas Hasanuddin. Makassar.
- Isda, Maya Novaliza. 2012. "Optimization of Concentration Kanamycin in the Soybean Explants (*Glycine Max L.*) to Transformation TcPIN Gene." in *Semirata PTN Barat*. Medan.
- Jaberi, M., P. Azadi, B. Gharehyazi, M. Khosrowchahli, A. Sharafi, N. Aboofazeli, and H. Bagheri. 2018. "Silvere Nitrate and Adenine Sulphate Induced High Regeneration Frequency in the Recalcitrant Plant *Cosmos Bipinatus* Using Cotyledone Explants." *The Journal of Horticultural Science and Biotechnology* 93(2):204–8.
- Jakhar, M. L., R. Verma, and D. Dixit. 2019. "Effect of Antioxidant on in Vitro Degree of Browning and Culture Establishment of Guggul (*Commiphora Wightii* (Arnott)): A Valuable Dessert Medicinal Plant. 5: 250-254." *Journal of Pharmacognosy and Phytochemistry* SP 5:250–54.
- Jing, Xin, Hui Wang, Biao Gong, Shiqi Liu, Min Wei, Xizhen Ai, Yan Lia, and Qinghua Shi. 2018. "Secondary and Sucrose Metabolism Regulated by Different Light Quality Combinations Involved in Melon Tolerance to Powdery Mildew." *Plant Physiology and Biochemistry* 124:77–87. doi: 10.1016/j.plaphy.2017.12.039.
- Julisaniah, N. I., L. Sulistiowati, and a n Sugiharto. 2008. "Analisis Kekerabatan Mentimun (*Cucumis Sativus*) Menggunakan Metode RAPD-PCR Dan Isozim." *Biodiversitas* 2:99–102.

- Keshavareddy, G., A. R. V., Kumar, and V. S. Ramu. 2018. "Methods of Plant Transformation- A Review." *International Journal of Current Microbiology and Applied Sciences* 7(7):2656–69.
- Khachik, F., A. Steck, and H. Pfander. 1999. "Isolation and Structural elucidation of (13Z,13'Z,3R,3'R,6'R)-Lutein From marigold Flowers, Kale, and Human Plasma." *J Agric Food Chem* 47:455–461.
- Kharismanda, K., and Y. Yuliani. 2021. "Perbandingan Efektivitas Ekstrak Daun, Batang Dan Bunga Tanaman Kenikir (*Cosmos Sulphureus*) Terhadap Mortalitas Larva *Plutella Xylostella*." *LenteraBio: Berkala Ilmiah Biologi* 10(2):146–52.
- Kim, Sooah, Jungyeon Kim, Nahyun Kim, Dongho Lee, Hojoung Lee, Dong Yup Lee, and Kyoung Heon Kim. 2020. "Metabolomic Elucidation of the Effect of Sucrose on the Secondary Metabolite Profiles in *Melissa Officinalis* by Ultraperformance Liquid Chromatography-Mass Spectrometry." *ACS Omega* 5(51):33186–95. doi: 10.1021/acsomega.0c04745.
- Kishimoto, Sanae, and Akemi Ohmiya. 2006. "Regulation of Carotenoid Biosynthesis in Petals and Leaves of *Chrysanthemum* (*Chrysanthemum Morifolium*)." *Physiologia Plantarum* 128:436–47. doi: 10.1111/j.1399-3054.2006.00761.x.
- Learn-Genetic. 2018. "The Genetics of Flower Color." <https://Learn.Genetics.Utah.Edu/Content/Flowers/Genetics>. Retrieved (https://learn.genetics.utah.edu/content/flowers/genetics).
- Lukmanasari, Putri, Aziz Purwantoro, Rudi Hari Murti, and Zulkifli. 2020a. "KARAKTERISASI MORFOLOGI HYBRID KANTONG SEMAR (*NEPENTHES* SPP.) DI INDONESIA." *PROSIDING SEMINAR NASIONAL RISET TEKNOLOGI TERAPAN* 1(1):1–12.
- Lukmanasari, Putri, Aziz Purwantoro, Rudi Hari Murti, and Zulkifli. 2020b. "Similarity Level of *Nepenthes* Spp. Based on the Qualitative Characters." *Ilmu Pertanian (Agricultural Science)* 5(1):140–49. doi: doi.org/10.22146/ipas.55728.
- Mayavan, Subramanian, Kondeti Subramanyam, Balusamy Jaganath, Dorairaj Sathish, Markandan Manickavasagam, and Andy Ganapathi. 2015. "Agrobacterium-Mediated in Planta Genetic Transformation of Sugarcane Setts." *Plant Cell Reports* 34(10):1835–48. doi: 10.1007/s00299-015-1831-8.
- Miswar, Miswar, Bambang Sugiharto, Joedoro Soedarsono, and Sukarti Moeljopawiro. 2007. "TRANSFORMASI GEN SUCROSE PHOSPHATE SYNTHASE (SoSPS1) MENGGUNAKAN *Agrobacterium Tumefaciens* UNTUK MENINGKATKAN SINTESIS SUKROSA PADA TANAMAN TEBU (*Saccharum Officinarum* L.)." *Berkala Penelitian Hayati* 12(2):137–43. doi: 10.23869/bphjbr.12.2.20077.
- Miswar, Bambang Sugiharto, J. Soedarsono, and Sukarti Moeljopawiro. 2005. "Transformasi Gen Sucrose Phosphate Synthase (SoSPS1) Tebu (*Saccharum Officinarum*) Untuk Meningkatkan Sintesis Sukrosa Pada Tanaman Tembakau (*Nicotiana Tabacum*)." *Berkala Ilmiah Biologi* 4:337–48.
- Mustofa, Z., I. M. Budiarsa, and G. B. N. Samdas. 2013. "Variasi Genetik Jagung (*Zea Mays* L.) Berdasarkan Karakter Fenotipik Tongkol Jagung Yang

Dibudidaya Di Desa Jono Oge.” *Jurnal Ilmiah Pendidikan Biologi* 1:33–41.

Ningtyas, Rinda Media, Bambang Sugiharto, and Esti Utarti. 2015. “Transformasi Gen Sosps1 Pada Tanaman Tebu Overekspresi Gen Sosut1 Event 2 Menggunakan *Agrobacterium Tumefaciens*.” *Berkala Sainstek* 3(1):1–4.

Nugraheni, Ika Ari Martiwi. 2007. “FUNGSI GANDA Green Fluorescent Protein (GFP) PADA SISTEM TRANSFORMASI GEN DENGAN MEDIATOR *Agrobacterium* PADA TANAMAN ANGGREK *Phalaenopsis Amabilis* (L.) Bl.: Sebagai Gen Pelapor Dan Penambah Nilai Estetika Tanaman.”[Skripsi]. Universitas Gadjah Mada. Yogyakarta.

Oksman-Caldentey, Kirsi-Marja, Nina Sev6n, Leena Vanhala, and Raimo Hiltunen. 1994. “Effect of Nitrogen and Sucrose on the Primary and Secondary Metabolism of Transformed Root Cultures of *Hyoscyamus Muticus*.” *Plant Cell Lissue and Organ Cultur* 38:263–72. doi: 10.1007/bf00033886.

Pebrianti, C., r b Ainurrasyid, and s I Purnamaningsih. 2015. “Uji Kadar Antosianin Dan Hasil Enam Varietas Tanaman Bayam Merah Pada Musim Hujan.” *Jurnal Produksi Pertanian* 3(1):27–33.

Peter, A. John, and T. G. Shanower. 1998. “Plant Gandular Trichomes.” *Resonance* 41–45.

Pinilih, J. 2004. “Pewarisan Sifat Warna Bunga, Ukuran Polong Dab Bobot Polong Pada Persilangan Buncis Kultivar Rich Green Dengan Flo.” Universitas Gadjah Mada. Yogyakarta.

Plantcaretoday.com. n.d. “Cosmos Sulphureus Care: Sulfur Cosmos Growing Tips.” Retrieved (<https://plantcaretoday.com/cosmos-sulphureus.html>).

Rafikasari, Rachmita, Parawita Dewanti, and Bambang Sugiharto. 2015. “Karakterisasi Tanaman Tebu (*Saccharum Officinarum* L.) Transgenik Double Overekspresi Gen SoSPS1-SoSUT1 Generasi Kedua.” Pp. 17–20 in *Pros. Semnas Kimia*. Surabaya.

Respatie, Dyah Weny, Prapto Yudono, Aziz Purwantoro, and Y. Andi Trisyono. 2019. “The Potential of Cosmos Sulphureus Cav. Extracts as a Natural Herbicides.” *AIP Conference Proceedings* 2202(December). doi: 10.1063/1.5141690.

Respatie, Dyah Weny, Prapto Yudono, Aziz Purwantoro, and Y. Andi Trisyono. 2019. “The Potential of Cosmos Sulphureus Flower Extract as a Bioherbicide for *Cyperus Rotundus*.” *Biodiversitas* 20(12):3568–74. doi: 10.13057/biodiv/d201215.

Rod-In, W. Sujipuli, and K. Ratanasut. 2014. “The Floral-Dip Method for Rice (*Oryza Sativa*) Transformation.” *Journal of Agricultural Technology* 10(2):467–74.

Rosen, R., and EZ Ron. 2011. “Proteomics of a Plant Pathogen: *Agrobacterium Tumefaciens*.” *Proteomics* 11:3134–42. doi: 10.1002/pmic.201100019.

Rusanov, Krasimir, Natasha Kovacheva, Mila Rusanova, Marcus Linde, Thomas Debener, and Ivan Atanassov. 2019. “Genetic Control of Flower Petal Number in *Rosa x Damascena* Mill f. *Trigintipetala*.” *Biotechnology & Biotechnological Equipment* 1–8. doi: 10.1080/13102818.2019.1599731.

- Sakuragui, Cassia Mônica, Emi Rainildes Lorenzetti, Rafael Augusto Xavier Borges, Eloi Machado Alves, Ângela Maria Janunzzi, and Vagner Arnaut De Toledo. 2011. "Bee Flora of an Insular Ecosystem in Southern Brazil." *Journal of the Botanical Research Institute of Texas* 5(1):311–19.
- Saleem, Mohammad, Hafiz Akbar Ali, Muhammad Akhtar Furqan, Saleem Uzma, Saleem Ammara, and Iram Irshad. 2017. "Chemical Characterisation and Hepatoprotective Potential of *Cosmos Sulphureus* Cav. and *Cosmos Bipinnatus* Cav." *Natural Product Research* 1–4. doi: 10.1080/14786419.2017.1413557.
- Sateesh, M. K. 2013. "Bioethics and Biosafety." P. 456 in *IK International Pvt.*
- Sawitri, widhi dyah, siti nurul Afidah, Atsushi Nakagawa, Toshiharu Hase, and Bambang Sugiharto. 2018. "Identification of UDP-Glucose Binding Site in Glycosyltransferase Domain of Sucrose Phosphate Synthase from Sugarcane (*Saccharum Officinarum*) by Structure-Based Site-Directed Mutagenesis." *Biophysical Reviews* 10:293–98.
- Sawitri, Widhi Dyah, Hirotaka Narita, Etsuko Ishizaka-Ikeda, Bambang Sugiharto, Toshiharu Hase, and Atsushi Nakagawa. 2016. "Purification and Characterization of Recombinant Sugarcane Sucrose Phosphate Synthase Expressed in *E. Coli* and Insect Sf9 Cells: An Importance of the N- Terminal Domain for an Allosteric Regulatory Property." *Journal of Biochemistry* 159(6):599–607. doi: 10.1093/jb/mvw004.
- Silalahi, Darwin, I. Gede Putu Wirawan, and Made Sritamin. 2021. "Transformasi Genetik Tanaman Kentang (*Solanum Tuberosum* L.) Dengan Gen AcvB Menggunakan Vektor *Agrobacterium Tumefaciens*." *Agrotrop: Journal on Agriculture Science* 11(1):63. doi: 10.24843/ajoas.2021.v11.i01.p07.
- Slone, JH, and TJ Buckhout. 1991. "No Title Sucrose-Dependent H⁺ Transport in Plasma-Membrane Vesicles Isolated from Sugarbeet Leaves (*Beta Vulgaris* L.)." *Planta* 183(4):584–89.
- Smagur, A. W., k h Konka, and A. K. Kononowicz. 2009. "Flower Bud Dipping or Vacuum Infiltration Two Methods of *Arabidopsis Thaliana* Transformation." *Russian Journal of Plant Physiology*, 56(4):560–68.
- Smeekens, S., and H. A. Hellmann. 2014. "Sugar Sensing and Signaling in Plant." *Front Plant Sci* 5:113.
- Solfanelli, Cinzia, Alessandra Poggi, Elena Loreti, Amedeo Alpi, and Pierdomenico Perata. 2006. "Sucrose-Specific Induction of the Anthocyanin Biosynthetic Pathway in *Arabidopsis*." *Plant Physiology* 140:637–46.
- Solís, F. .. Jorge I., P. Mlejnek, K. Studená, and S. Procházka. 2003. "Application of Sonication-Assisted *Agrobacterium*-Mediated Transformation in *Chenopodium Rubrum* L." *Plant, Soil and Environment* 49(6):255–60. doi: 10.17221/4122-pse.
- Subramanyam, Kondeti, Arunachalam Chinnathambi, Rasu Manimuthu Thaneshwari, Ali Alharbi Sulaiman Ganapathi, Markandan Manickavasagam, and Andy Ganapathi. 2015. "Highly Efficient *Agrobacterium*-Mediated in Planta Genetic Transformation of Snake Gourd (*Tricosanthes Cucumerina* L.)." *Plant Cell Tiss Organ Cult* 123:133–42. doi: 10.1007/s11240-01508214.

- Sugiharto, Bambang, Hitoshi Sakakibara, Sumadi, and Tatsuo Sugiyama. 1997. "Differential Expression of Two Genes for Sucrose-Phosphate Synthase in Sugarcane: Molecular Cloning of the cDNAs and Comparative Analysis of Gene Expression." *Plant and Cell Physiology* 38(8):961–65. doi: 10.1093/oxfordjournals.pcp.a029258.
- Swandari, Tantri. 2018. "Characterization of Trichomes and Total Sugar Content of Dry Sliced Temanggung Tobacco." *AGROISTA Jurnal Agroteknologi* 2(1):52–59.
- Tambaru, Elis. 2015. "Identifikasi Karakter Morfologi Dan Anatomi Stomata Flacourtia Inermis Roxb. Di Kawasan Kampus UNHAS Tamalanrea Makassar." *Jurnal Alam Dan Lingkungan* 6(11):37–40.
- Terryana, R. T., K. Nugroho, H. Rijzaani, and P. Lestari. 2018. "Karakterisasi Keragaman Genetik 27 Genotipe Cabai Berdasarkan Marka SSR." *Berita Biologi* 17:183–94.
- Tjahjono, Budi. 2010. "Ilmu Penyakit Tumbuhan." *Universitas Riau*. Retrieved (<http://mip.faperta.unri.ac.id/file/bahanajar/87469-ilmu-penyakit>).
- Tzfira, Tzvi, and Vitaly Citovsky. 2002. "Partners-in-Infection: Host Proteins Involved in the Transformation of Plant Cells by *Agrobacterium*." *TRENDS in Cell Biology* 12(3):121–29.
- UPOV. 2015. "Cosmos Cav." *Www.Upov.Int/Edocs/Upov*. Retrieved (www.upov.int/edocs/upov).
- USDA. 2014. "Cosmos Sulphureus Cav." *Https://Plants.Usga.Gov/Home/PlantProfile?Symbol=COSU5*. Retrieved (<https://plants.usda.gov/home/plantProfile?symbol=COSU5>).
- Veluthambi, K., R. K. Jayaswal, and S. B. Gelvin. 1987. "Virulence Genes A, G, and D Mediate the Double-Stranded Border Cleavage of T-DNA from the *Agrobacterium* Ti Plasmid." *Proceedings of the National Academy of Sciences of the United States of America* 84(7):1881–85. doi: 10.1073/pnas.84.7.1881.
- Weiss, Julia, Luciana Delgado-Benarroch, and Marcos Egea-Cortines. 2005. "Genetic Control of Floral Size and Proportions." *Int. J. Dev. Biol* 49:513–25. doi: 10.1387/ijdb.051998jw.
- Whalen, M., R. Innes, A. Bent, and B. Staskawicz. 1991. "Identification of *Pseudomonas Syringae* Pathogens of *Arabidopsis Thaliana* and a Bacterial Gene Determining Avirulence on Both *Arabidopsis* and Soybean." *Plant Cell* 3:49–59.
- Yadav, Sheetal, Poojadevi Sharma, Anshu Trivastava, Priti Desai, and Neeta Shrivastava. 2014. "Strain Specific *Agrobacterium*-Mediated Genetic Transformation of *Bacopa Monnieri*." *Journal of Genetic Engineering and Biotechnology* 12:89–94. doi: 10.1016/j.jgeb.2014.11.003.
- Yasmeen, Abida, Bushra Mirza, Samia Inayatullah, Naila Safdar, Maryam Jamil, Shawkat Ali, and M. Fayyaz Choudhry. 2009. "In Planta Transformation of Tomato." *Plant Molecular Biology Reporter* 27(1):20–28. doi: 10.1007/s11105-008-0044-5.
- Yuliani, Fida Rachmawati, sari kusuma Dewi, maharani tri Asri, and Agoes

- Soegianto. 2019. "Total Phenolic and Flavanoid Contents of *Elephantopus Scaber* and *Ageratum Conyzoides* (Asteraceae) Leaves Extracts from Various Altitude Habitats." *Eco. Env & Cons* 25:s106–13.
- Zale, J. M., S. Agrawal, S. Loar, and C. M. Steber. 2009. "Evidence for Stable Transformation of Wheat by Floral Dip in *Agrobacterium Tumefaciens*." *Plant Cell Rep* 28:903–13.
- Zhang, Xiuren, Rossana Henriques, Shih-Shun Lin, Qi-Wen Niu, and Nam-Hai Chua. 2006. "Agrobacterium-Mediated Transformation of *Arabidopsis Thaliana* Using the Floral Dip Method." *Nature Protocols* 1(2):641–46. doi: 10.1038/nprot.2006.97.
- Zhang, Yong-yan, Dong-min Zhang, Yun Zhong, Xiao-jun Chang, Min-lun Hu, and Chun-zhen Cheng. 2017. "A Simple and Efficient in Planta Transformation Method for Pommelo (*Citrus Maxima*) Using *Agrobacterium Tumefaciens*." *Scientia Horticulturae* 214:174–79. doi: <https://doi.org/10.1016/j.scienta.2016.11.033>.
- Zheng, Yanjun, Li Tian, Hongtao Liu, Qihong Pan, Jicheng Zhan, and Huang Weidong. 2009. "Sugars Induce Anthocyanin Accumulation and Flavanone 3-Hydroxylase Expression in Grape Berries." *Plant Growth Regul* 58:251–60. doi: 10.1007/s10725-009-9373-0.
- Zhou, G., J. Guo, and J. Yang. 2018. "Effect of Fertilizers on Cd Accumulation and Subcellular Distribution of Two *Cosmos* Species (*Cosmos Sulphureus* and *Cosmos Bipinnata*)." *Int J Phytoremediat* 20:930–38.
- Zulkarnain, Rusmadi Rukmana, Hasyimuddin, Masriany, baiq farhatul Wahidah, Nurman, and rahmat fajrin Alir. 2019. "Karakteristik Morfologi Daun Di Kawasan Hutan Hulu Bulu'Ballea, Tinggi Moncong Kabupaten Gowa." Pp. 48–53 in *Prosiding Semnas Biodiversitas Indonesia*. Makassar: UIN Alauddin.