

DAFTAR PUSTAKA

- Allard, R.W., 1960. Principles of Plant Breeding. John Wiley & Sons, Inc, New York.
- Banziger, M. and M. Cooper, 2001. Breeding for Low Input Conditions and Consequences for Participatory Plant Breeding: Examples from Tropical Maize and Wheat. *Euphytica* 122: 503-519.
- Beck, D.L., S.K. Vasal, and J. Crossa, 1990. Heterosis and Combining Ability of CIMMYT's Tropical Early and Intermediate Maturity Maize Germplasm. *Maydica* 35: 279-285.
- Beck, D.L., S.K. Vasal, and J. Crossa, 1991. Heterosis and Combining Ability Among Subtropical and Temperate Intermediate Maturity Maize Germplasm. *Crop Sci.* 31: 68-73.
- Bernardo, R., 2002. Breeding for Quantitative Traits in Plants. Stemma Press, Minnesota.
- Betran, F.J., M. Banziger, D. Beck, J.M. Ribaut and G.O. Edmeades, 2004. Breeding Approaches to Develop Drought Tolerant Maize Hybrids. *In*: D. Pollard, M. Sawkins, J. M. Ribaut and D. Hoisington (Eds.). Resilient Crops for Water Limited Environments: Proceedings of a Workshop Held at Cuernavaca, Mexico. 24-28 May 2004, CIMMYT, Mexico.
- Budak, H., L. Cesurer, Y. Bolek, T. Dokuyuku, and A. Akaya, 2002. Understanding of Heterosis. *Journal of Science and Engineering* 5: 68-72.
- Campbell, B.T., D.T. Browman, and D.B. Weaver, 2008. Heterotic Effect in Topcrosses of Modern and Absolute Cotton Cultivars. *Crop Sci.* 48: 593-605.
- Comstock, R.E. and H.F. Robinson, 1952. Estimation of Average Dominance Gene, Heterosis. Iowa State Univ. Press, Iowa.
- Coors, J.G., 1988. Responses to Four Cycles of Combined Half-Sib and S1 Family Selection in Maize. *Crop Sci.* 28: 891-896.
- Crossa, J. 1990. Statistical Analysis of Multilocation Trials. *Advances in Agronomy* 44: 55- 85.
- Crow, J.F. and M. Kimura, 1970. An Introduction to Population Genetics Theory. Burgess Publishing Company, Minnesota.
- Dudley, J.W. and R.H. Moll, 1969. Interpretation and Use of Estimates of Heritability and Genetic Variances in Plant Breeding. *Crop Sci.* 9: 257-262.

- Duvick, D.N., 1999. Heterosis: Feeding People and Protecting Natural Resources. *In: J.G. Coors, S. Pandey, N.V. Ginkel, A.R. Hallauer, D.C. Hess, K.R. Lamkey, A.E. Melchinger, G. Srinivasan, and C.W. Stuber (Eds.), The Genetic and Exploitation of Heterosis in Crops. Proc. Int. CIMMYT Symp. ASA, CSSA, SSSA, Madison, Wisconsin, USA.*
- Duvick, D.N., 2004. Long-term Selection in a Commercial Hybrid Maize Breeding Program. *Plant Breed. Rev.* 24: 109-151.
- Eyherabide, G.H. and A.R. Hallauer, 1991. Reciprocal Full-Sib Recurrent Selection in Maize: II. Contributions of Additive, Dominance, and Genetic Drift Effects. *Crop Sci.* 31: 1442-1448.
- Falconer, D. S. and T. F. C. Mackay, 1996. *Introduction to Quantitative Genetics.* 4th ed. Longman, Essex, England.
- Frankel, R., 1983. *Heterosis, Reappraisal of Theory and Practice.* Springer-Verlag, Berlin, Heidelberg, New York, Tokyo.
- Gardner, F.P., R.B. Pearce, and R.L. Mitchell, 1985. *Physiology of Crop Plant.* Iowa State University Press, USA.
- Ghaderi, A., M.W. Adams, and A.M. Nassib, 1984. Relationship between Genetic Distance and Heterosis for Yield and Morphological Traits in Dry and Edible Bean and Faba Bean. *Crop Sci.* 24: 37-42.
- Glover, M.A., D.B. Willmot, L.L. Darrah, B.E. Hibbard, and X. Zhu. 2005. Diallel Analyses of Agronomic Traits Using Chinese and U.S. Maize Germplasm. *Crop Sci.* 45:1096-1102.
- Goodman, M.M., 1965. Estimates of Genetic Variance in Adapted and Exotic Population in Maize. *Crop Sci.* 5: 87-90.
- Gouesnard, B. and A. Gallais, 1992. Genetic Variance Component Estimation in a Nested Mating Design with Positive Assortative Mating, and Application to Maize. *Crop Sci.* 32: 1127-1131.
- Guei, R.G. and C.E. Wasson, 1992. Inheritance of Some Drought Adaptive Traits in Maize: I. Interrelationships between Yield, Flowering, and Ear per Plant. *Maydica* 33: 157-164.
- Hadini, H., Nasrullah, Taryono, P. Basunanda, 2015. Estimates of Genetic Variance Components of an Equilibrium Population of Maize. *Agrivita* 37: 45-50.
- Hageman, R.H., E.R. Leng, J.W. Dudley, 1967. A Biochemical Approach to Corn Breeding. *Advan. Agron.* 19: 45-86.

- Hageman, R.H., R.J. Lambert, 1988. The Use of Physiological Traits for Corn Improvement. *In: G.F. Sprague, J.W. Dudley (Eds.), Corn and Corn Improvement*. 3rd ed. Am. Soc. Agronomy. Madison, WI.
- Hallauer, A.R., 1990. Methods Used in Developing Maize Inbreds. *Maydica* 35: 1-16.
- Hallauer, A.R., 1999. Temperate Maize and Heterosis. *In: J.G. Coors, S. Pandey, N.V. Ginkel, A.R. Hallauer, D.C. Hess, K.R. Lamkey, A.E. Melchinger, G. Srinivasan, and C.W. Stuber (Eds.), The Genetic and Exploitation of Heterosis in Crops. Proc. Int. CIMMYT Symp. ASA, CSSA, SSSA, Madison, Wisconsin, USA.*
- Hallauer, A.R. and J.B. Miranda, 1988. *Quantitative Genetics in Maize Breeding*. 2nd ed. Iowa State University Press, Iowa, Ames. USA.
- Hallauer, A. R., M. J. Carena, and J. B. Miranda, 2010. *Quantitative Genetics in Maize Breeding*. Springer, New York.
- Hallauer, A.R., W.A. Russell and K.R. Lamkey, 1988. Corn Breeding. *In: G.F. Sprague and J.W. Dudley (Eds.), Corn and Corn Improvement*. 3rd ed. Agronomy Monograph No. 18. ASA, CSSA, and SSSA, Madison, Wisconsin.
- Hartl, D.L., 1980. *Principles of Population Genetics*. Sinauer Associates, Inc. Publishers, Sunderland, Massachusetts.
- Hua, J.P., Y.Z. Xing, W. Wu, C.G. Xu, X.L. Sun, S.B. Yu, and Q. Zhang, 2003. Single Locus Heterotic Effects and Dominance by Dominance Interaction can Adequately Explain the Genetic Basis of Heterosis in an Elite Rice Hybrid. *Proceedings of the National Academy of Sciences of the United States of America* 100: 2574-2579.
- Jain, J.P., 1982. *Statistical Techniques in Quantitative Genetics*. Tata McGraw-Hill, New Delhi.
- Kearsey, M.J. and H. Pooni, 1998. *The Genetical Analysis of Quantitative Traits*. Stanley Thornes (Publishers) Ltd, London.
- Kempthorne, O., 1973. *An Introduction to Genetic Statistics*. The Iowa State University Press, USA.
- King, R.C., W.D. Stansfield, and P.K. Mulligan, 2006. *A Dictionary of Genetics*. 7th ed. Oxford University Press. Madison Avenue, New York 10016.

- Lamkey, K.R. and J.W. Edwards, 1999. Quantitative Genetics and Heterosis. *In*: J.G. Coors, S. Pandey, N.V. Ginkel, A.R. Hallauer, D.C. Hess, K.R. Lamkey, A.E. Melchinger, G. Srinivasan, and C.W. Stuber (Eds.), *The Genetic and Exploitation of Heterosis in Crops*. Proc. Int. CIMMYT Symp. ASA, CSSA, SSSA, Madison, Wisconsin, USA.
- Lee, M., 2006. The Phenotypic and Genotypic Eras of Plant Breeding. *In*: K.R. Lamkey and M. Lee (Eds.). *Plant Breeding: The Arnel R. Hallauer International Symposium*. Blackwell Publishing, Iowa, USA.
- Liana, T., 2015. Pendugaan Parameter Genetik Generasi S₁, S₂, dan Pemanfaatannya dalam Menilai Potensi Populasi Dasar untuk Perakitan Kultivar Hibrida. Disertasi Fakultas Pertanian Universitas Gadjah Mada, Yogyakarta.
- Lindsey, M.F., J.H. Lonquist, and C.O. Gardner, 1962. Estimates of Genetic Variance in Open Pollinated Varieties of Cornbelt Corn. *Crop Sci.* 2: 105-108.
- Lothrop, J.E., R.E. Atkins, and O.S. Smith, 1985. Variability for Yield and Yield Components in IAP1R Grain Sorghum Random-Mating Population. I. Means, Variance Components, and Heritabilities. *Crop Sci.* 25: 235-240.
- Lynch, M. and B. Walsh, 1998. *Genetics and Analysis of Quantitative Traits*. Sinauer Associates, Inc. Publishers, Sunderland, Massachusetts, 01375 U.S.A.
- Malvar, R. A., A. Ordas, P. Revilla, and M. E. Cartea, 1996. Estimates of Genetic Variance in Two Spanish Population of Maize. *Crop Sci.* 36: 291-295.
- Mickelson, H.R., H. Cordova, K.V. Pixley, M.S. Bjarnason, 2001. Heterosis Relationships among Nine Temperate and Subtropical Maize Populations. *Crop Sci.* 52: 139-144.
- Mikel, M.A., 2008. Genetic Diversity and Improvement of Corn Temporary Proprietary North American Dent Corn. *Crop Sci.* 48: 1686-1695.
- Miranda F, J.B., 1999. Inbreeding Depression and Heterosis. *In*: J.G. Coors, S. Pandey, N.V. Ginkel, A.R. Hallauer, D.C. Hess, K.R. Lamkey, A.E. Melchinger, G. Srinivasan, and C.W. Stuber (Eds.), *The Genetic and Exploitation of Heterosis in Crops*. Proc. Int. CIMMYT Symp. ASA, CSSA, SSSA, Madison, Wisconsin, USA.
- Moll, R.H., J.H. Lonquist, J.V. Foreuno and E.C. Johnson, 1965. The Relationship of Heterosis and Genetic Divergence in maize. *Genetics* 52: 139-144.

- Moll, R.H. and O.S. Smith, 1981. Genetic Variances and Selection Responses in an Advanced Generation of a Hybrid of Widely Divergent Population of Maize. *Crop Sci.* 21: 387-391.
- Mungoma, C. and L.M. Pollak, 1988. Heterosis Patterns among Ten Corn Belt and Exotic Maize Population. *Crop Sci.* 28: 500-504.
- Murti, R.H., Nasrullah, dan W. Mangoendidjojo, 2001. Pendugaan Kemajuan Seleksi Keturunan Saudara Tiri dan Keturunan Menyerbuk Sendiri pada Populasi Jagung Bisma. *Agrosains* 14(1): 59-69.
- Nyquist, W.E., 1990. Notes of Statistical Genetics, with a Fokus on Animal and Plant Breeding. Purdue University, Indiana.
- Ordas, A., 1991. Heterosis in Crosses between American and Spanish Population of Maize. *Crop Sci.* 31: 931-935.
- Parvez, S., 2006. Recent Advances in Understanding Genetic Basis of Heterosis in Rice (*Oryza sativa* L.). *Revista UDO Agricola* 6: 1-10.
- Paterniani, E. And J.H. Lonquist, 1963. Heterosis in Interracial Crosses of Corn (*Zea mays* L.). *Crop Sci.* 3: 504- 507.
- Poehlman, J. M. and D. A. Sleper, 1995. *Breeding Field Crops*. 4th ed. Iowa State University Press, Ames. Iowa 50014, USA.
- Prasad, S.K. and T.P. Singh, 1986. Heterosis in Relation to Genetic Divergence in Maize (*Zea mays* L.). *Euphytica* 35: 919-924.
- Reif, J.C., A.R. Hallauer, A.E. Melchinger, 2005. Heterosis and Heterotic Patterns in Maize. *Maydica* 50: 215-223.
- Rodrigues, M.C., F.D. Valva, E.M. Brasil, and L.J. Chaves, 2001. Comparison among Inbreeding System in Maize. *Crop Breeding and Applied Biotechnology* 1: 105-114.
- Schrader, L.E., 1985. Selection for Metabolic Balance in Maize. *In*: J.E. Harper, L.E. Schrader, R.W. Howell (Eds.), *Exploitation of Physiological and Genetic Variability to Enhance Crop Productivity*. Waverly Press, Baltimore, MD.
- Shahi, J.P. and L.S. Singh, 1985. Estimation of Genetic Variability for Grain Yield and its Components in a Random Mating Population of Maize. *Crop Improv.* 12: 126-129.
- Singh, B.D, 2005. *Plant Breeding: Principles and Methods*. 7th ed. Kalyani Publishers, New Delhi, India.

- Singh, R.K. and B.D. Chaudhary, 1985. *Biometrical Methods in Quantitative Genetics Analysis*. 2nd ed. Kalyani Publishers, New Delhi, India.
- Subandi, I.G. Ismail, dan Hermanto, 1998. *Jagung, Teknologi Produksi dan Pasca Panen*. Pusat Penelitian dan Pengembangan Pertanian, Bogor.
- Sutoro, 2005. *Pendugaan Parameter Genetik Jagung dan Pemilihan Lingkungan Seleksi untuk Pemupukan Rendah*. Disertasi Sekolah Pasca Sarjana Institut Pertanian Bogor, Bogor.
- Tamarin, R.H., 2001. *Principles of Genetics*. 7th ed. The McGraw-Hill Companies. Massachusetts.
- Tanksley, S.D. and A.J. Monforte, 2000. Fine Mapping of Quantitative Trait Locus (QTL) from *Lycopersicon hirsutum* Chromosome 1 Affecting Fruit Characteristics and Agronomic Traits: Breaking Linkage Among QTLs Affecting Different Traits and Dissection of Heterosis for Yield. *Theoretical and Applied Genetics* 100(3-4): 471-479.
- Thormann, C.E., M.E Ferreira, L.E.A. Camargo, J.G. Tivanga and T.C. Osborn, 1994. Comparison of RFLP and RAPD Markers to Estimating Genetic Relationships within and among Cruciferous Species. *Theoretical and Applied Genetics* 88: 973-980.
- Tollenaar, M., A. Ahmanzadeh and E.A. Lee. 2004. Physiological Basis of Heterosis for Grain Yield in Maize. *Crop Sci.* 44: 2086-2094.
- Tollenaar, M. and J. Wu. 1999. Yield Improvement in Temperate Maize is Attributable to Greater Stress Tolerance. *Crop Sci.* 39: 1597-1604.
- Troyer, A.F. 1990. A Retrospective View of Corn Genetic Resources. *Heredity* 81: 17-24.
- Troyer, A.F., 2009. Development of Hybrid Corn and the Seed Corn Industry. *In: Jeffrey L. Bennetzen and Sarah Hake (Eds). Handbook of Maize, Genetics and Genomics*. Springer, USA.
- Troyer, A.F. and E.J. Wellin, 2009. Heterosis Decreasing in Hybrids: Yield Test Inbreds. *Crop Sci.* 49: 1969-1976.
- Vasal, S.K., G. Srinivasan, F. Gonzalez, G.C. Han and S. Pandey, 1992^a. Heterosis and Combining Ability of CIMMYT's Tropical x Sub-Tropical Maize Germplasm. *Crop Sci.* 32: 1483-1489.
- Vasal, S.K., G. Srinivasan, J. Crossa and D.L. Beck, 1992^b. Heterosis and Combining Ability of CIMMYT's Sub-Tropical and Temperate Early Maturing Maize Germplasm. *Crop Sci.* 32: 884-890.

- Vasal, S.K., G. Srinivasan, S. Pandey, F. Gonzalez, D.L. Beck and J. Crossa. 1993^a. Heterosis and Combining Ability of CIMMYT's Quality Protein Maize Germplasm: II. Subtropical. *Crop Sci.* 33: 51-57.
- Vasal, S.K., G. Srinivasan, S. Pandey, F. Gonzalez, J. Crossa and D.L. Beck, 1993^b. Heterosis and Combining Ability of CIMMYT's Quality Protein Maize Germplasm: I. Lowland Tropical. *Crop Sci.* 33: 46-51.
- Vasal, S.K., H. Cordova, S. Pandey, G. Srinivasan, 1999. Tropical Maize Heterosis. *In*: J.G. Coors, S. Pandey, N.V. Ginkel, A.R. Hallauer, D.C. Hess, K.R. Lamkey, A.E. Melchinger, G. Srinivasan, and C.W. Stuber (Eds.), *The Genetic and Exploitation of Heterosis in Crops*. Proc. Int. CIMMYT Symp. ASA, CSSA, SSSA, Madison, Wisconsin, USA.
- Wardyn, B.M., J.W. Edwards, and K.R. Lamkey, 2007. The Genetic Structure of a Maize Population: The Role of Dominance. *Crop Sci.* 47: 467-476.
- Wolf, D.P., L.A. Paternelli, and A.R. Hallauer, 2000. Estimates of Genetic Variance in an F₂ Maize Population. *The American Genetic Association* 91: 384-391.
- Wright, S., 1968. *Evolution and Genetics of Population*. University of Chicago Press. Chicago.
- Yoseph, B., A. M. Botha and A. A. Myburg, 2005. A Comparative Study of Molecular and Morphological Methods of Describing Genetic Relationships in Traditional Ethiopian Highland Maize. *African Journal of Biotechnology* 4: 586-595.