

# **Maxted/Hunter/Ortiz Ríos - Plant Genetic Conservation: General Bibliographies per Chapter**

## **Chapter 1**

### **General bibliography for this chapter**

- CBD, (1992). *Convention on Biological Diversity: Text and Annexes*. pp. 1-34. Secretariat of the Convention on Biological Diversity, Montreal.
- CBD, (2010a). Strategic Plan for Biodiversity 2011–2020. Secretariat of the Convention on Biological Diversity, Montreal.
- CBD, (2010b). Global Strategy for Plant Conservation. Secretariat of the Convention on Biological Diversity, Montreal.
- FAO, (1998). The state of the world's plant genetic resources for food and agriculture. pp. 510. Food and Agriculture Organization of the United Nations, Rome, Italy.
- FAO, (2010). The Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture. Food and Agriculture Organization of the United Nations, Rome, Italy.
- FAO, (2019). *First State of the World Report on Biodiversity for Food and Agriculture*. Food and Agriculture Organization of the United Nations, Rome, Italy.
- Fanzo, J., Hunter, D., Borelli, T. and Mattei, F. (eds.) (2013). Diversifying Food and Diets. Issues in Agricultural Biodiversity Series Biodiversity International, Rome, Italy.  
<https://www.bioversityinternational.org/e-library/publications/detail/diversifying-food-and-diets/>
- Frankel, O.H., Brown, A.H.D. and Burden J.J., (1995). The Conservation of Plant Biodiversity. Cambridge University Press. Cambridge.
- Frankham, R., Ballou, J.D. and Briscoe, D.A., (2010) Introduction to Conservation Genetics. Second Edition. Cambridge University Press, Cambridge.
- Hawkes, J.G., Maxted, N. and Ford-Lloyd, B.V. (2000). *The ex situ conservation of plant genetic resources*. pp. 250. Kluwer, Dordrecht.
- Hunter, D., Heywood, V.H., (Eds.), 2011. *Crop Wild Relatives. A Manual of In Situ Conservation*. Earthscan, London.
- Hunter, D., Guarino, L., Spillane, C. and McKeown, P.C., (2017). *Routledge handbook of agricultural biodiversity*. Taylor and Francis, London, UK.
- IPBES, (2019). *Global assessment report on biodiversity and ecosystem services*. Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, UNESCO, Paris, France.
- Maxted, N., Ford-Lloyd, B.V. and Hawkes, J.G., (1997). *Plant genetic conservation: the in situ approach*. pp. 451. Chapman & Hall, London.
- Mittermeier, R.A., Robles, G.P., Hoffmann, M., Pilgrim, J., Brooks, T., Mittermeier, C.G., Lamoreux, J., Da Fonseca, G.A.B., 2004. Hotspots revisited. CEMEX, Mexico.
- WHO/CBD, (2015). Connecting Global Priorities: Biodiversity and Human Health  
<https://www.cbd.int/health/stateofknowledge/default.shtml>

## **Chapter 2**

### **General bibliography for this chapter**

- CBD, (1992). *Convention on Biological Diversity: Text and Annexes*. pp. 1-34. Secretariat of the Convention on Biological Diversity, Montreal.
- CBD, (2010). Global Strategy for Plant Conservation. Secretariat of the Convention on Biological Diversity, Montreal.
- CBD, (2010). Strategic Plan for Biodiversity 2011–2020. Secretariat of the Convention on Biological Diversity, Montreal.
- Frison, C., Lopez, F. and Esquinas-Alcazar, T. (eds) (2011) *Plant Genetic Resources and Food Security: Stakeholder Perspectives on the International Treaty on Plant Genetic Resources for Food and Agriculture*. Earthscan, London.
- Glowka, L. and Burhenne-Guilmin (1994) A guide to the Convention on Biological Diversity. IUCN Environmental Policy and Law Papers.
- Halewood, M., Lopez Noriega, I. and Louafi, S. (eds) (2013) *Crop Genetic Resources as a Global Commons: Challenges in International Law and Governance*. Earthscan, London.
- Hunter, D., Guarino, L., Spillane, C. and McKeown, P. (2017) *Handbook of Agricultural Biodiversity*. Routledge, UK
- Moore, G. and Tymowski, W. (2005) Explanatory Guide to the International Treaty on Plant Genetic Resources for Food and Agriculture. IUCN Environmental Policy and Law Paper No. 57
- Pistorius, R. (1997) *Scientists, Plants and Politics: A History of the Plant Genetic Resources Movement*. IPGRI, Rome, Italy.

## **Chapter 3**

### **General bibliography for this chapter**

- Bridson, D. and Forman, L., (2010). *The herbarium handbook*, 3rd Ed. Royal Botanic Gardens, Kew, UK.
- Judd, W.S., Campbell, C.S., Kellogg, E.A., Stevens, P.F. and Donoghue, M.J., (2016). *Plant systematics: a phylogenetic approach*, 4th Ed. Sinauer Associates Inc. Sunderland, Massachusetts, USA.
- Simpson, M.G., (2006). *Plant systematics*. Elsevier Academic Press, Burlington, USA.
- Stuessy, T.F., (2009). *Plant taxonomy: the systematic evaluation of comparative data*. Columbia University Press, New York, USA.
- Stuessy, T.F., Crawford, D.J., Soltis, D.E. and Soltis, P.S., (2014). *Plant systematics: the origin, interpretation and ordering of plant biodiversity*. Koeltz Scientific Books, Königstein, Germany.

## **Chapter 4**

### **General bibliography for this chapter**

- Allendorf, F.W. and Luikart, G., (2007). *Conservation and the Genetics of Populations*. Blackwell Publishing, Oxford, United Kingdom.
- Crow, J.F. and Kimura, M., (1970). *An Introduction to Population Genetics Theory*. Burgess Publishing Company, Minneapolis, Minnesota, USA,

- Frankel, O.H., Brown, A.H.D. and Burdon, J.J., (1995). *The Conservation of Plant Biodiversity*. Cambridge University Press, Cambridge, United Kingdom.
- Halliburton, R., (2004). *Introduction to Population Genetics*. Pearson Press, New Jersey, USA.
- Hamilton, M., (2009). *Population Genetics*. Wiley–Blackwell, New York, USA.
- Hartl, D.L. and Clark, A.G., (2007). *Principles of Population Genetics*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts, USA.
- Hedrick, P.W., (2011). *Genetics of Populations*, 4<sup>th</sup> ed. Jones and Bartlett Publishers, Sudbury, Massachusetts, USA
- Kontoleon, A., Pascual, U. and Smale, D. (eds.) (2009) *Agrobiodiversity Conservation and Economic Development*. Routledge, London, United Kingdom.
- Lewontin, R.C., (1973). *The Genetic Basis of Evolutionary Change*, 4<sup>th</sup> ed. Columbia University Press, New York, USA.
- Li, C.C., (1976). *First Course in Population Genetics*. Boxwood Press, Pacific Grove, California, USA.
- Nielsen, R. and Slatkin, M., (2013). *An Introduction to Population Genetics: Theory and Applications*. Sinauer Associates, Sunderland, Massachusetts, USA.

## Chapter 5

### **General bibliography for this chapter**

- Crossa, J. and Franco, J., (2004). Statistical methods for classifying genotypes. *Euphytica*, 137: 19–37.
- Excoffier, L. and Lischer, H.E.L., (2010). Arlequin suite ver 3.5: A new series of programs to perform population genetics analyses under Linux and Windows. *Molecular Ecology Resources*, 10: 564–567.
- Gower, J.C., (1985). Measures of taxonomic distance and their analysis. In: Kotz S, Johnson NL (eds) *Encyclopaedia of Statistical Sciences*, vol 5. Wiley, New York, USA. pp 395–405.
- Johnson, R.A. and Wichern, D.W., (2007). *Applied Multivariate Statistical Analysis*, 6<sup>th</sup> ed. Prentice Hall, Upper Saddle River, NJ, USA.
- Mardia, K.V., Kent, J.T. and Bibby, J.M., (1979). *Multivariate Analysis*. Academic Press, London, United Kingdom.
- Nei, M., (1978). Estimation of average heterozygosity and genetic distance from a small number of individuals. *Genetics*, 89: 583–590.
- Nei, M., (1987). *Molecular Evolutionary Genetics*. Columbia University Press, New York, USA.
- Peakall, R. and Smouse, P.E., (2006). GenAIEx 6: genetic analysis in Excel. Population genetic software for teaching and research. *Molecular Ecology Notes*, 6: 288–295.
- Pritchard, J.K., Stephens, M. and Donnelly, P., (2000). Inference of population structure using multi-locus genotype data. *Genetics*, 155: 945–959.
- Sokal, R.R. and Sneath, P.H., (1963). *Principles of Numerical Taxonomy*. W. H. Freeman, San Francisco, CA – London, United Kingdom.
- Weir, B.S. (1996). *Genetic Data Analysis II: Methods for Discrete Population Genetic Data*, 2<sup>nd</sup> ed. Sinauer Assoc., Sunderland, MA., USA.

## Chapter 6

## **General bibliography for this chapter**

- Castañeda Álvarez, N.P., Vincent, H.A., Kell, S.P., Eastwood, R.J. and Maxted, N., (2011). Ecogeographic surveys. In Guarino L, Ramanatha Rao V, Goldberg E (editors). *Collecting Plant Genetic Diversity: Technical Guidelines. 2011 update*. Bioversity International, Rome. Available online: [http://cropgene.bank.sgrp.cgiar.org/index.php?option=com\\_content&view=article&id=679](http://cropgene.bank.sgrp.cgiar.org/index.php?option=com_content&view=article&id=679)
- Jackson, M., Ford-Lloyd, B.V. and Parry M. (Eds.), (2013). *Plant Genetic Resources and Climate Change - a 21st Century Perspective*. CAB International, Wallingford, UK.
- Jarvis, D.I., Hodgkin, T., Brown, A.H.D., Tuxill, J., López Noriega, I., Smale, M. and Sthapit, B., (2016). *Crop genetic diversity in the field and on the farm: principles and applications in research practices*. Yale University Press, New Haven, USA.
- Kooahfkhhan, P. and Altieri, M.A., (2017). *Forgotten agricultural heritage: reconnecting food systems and sustainable development*. Earthscan from Routledge, London, UK.
- Magos Brehm, J., Kell, S.P., Thormann, I., Dulloo, M.E. and Maxted, N., (2017). *Interactive Toolkit for Crop Wild Relative Conservation Planning version 1.0*. University of Birmingham, Birmingham, UK and Bioversity International, Rome, Italy. Available online: <http://www.cropwildrelatives.org/conservation-toolkit/> (accessed 11.05.17).
- Maxted, N., Castañeda Álvarez, N.P., Vincent, H.A. and Magos Brehm, J., (2012). Gap analysis: a tool for genetic conservation. In Guarino L, Ramanatha Rao V, Goldberg E (editors). *Collecting Plant Genetic Diversity: Technical Guidelines. 2011 update*. Bioversity International, Rome. Available online: [http://cropgene.bank.sgrp.cgiar.org/index.php?option=com\\_content&view=article&id=678](http://cropgene.bank.sgrp.cgiar.org/index.php?option=com_content&view=article&id=678)
- Maxted, N., Magos Brehm, J. and Kell, S.P., (2013). *Resource book for preparation of national conservation plans for crop wild relatives and landraces. Commission on Genetic Resources for Food and Agriculture*. Food and Agriculture Organization of the United Nations, Rome, Italy. 457 pp. <http://www.fao.org/agriculture/crops/thematic-sitemap/theme/seeds-pgr/resource-book/en/>
- Parra-Quijano, M., Iriondo, J.M. and Torres, E., (2011). Ecogeographical land characterization maps as a tool for assessing plant adaptation and their implications in agrobiodiversity studies. *Genetic Resources and Crop Evolution*, 59(2): 205–218.
- Ramírez-Villegas, J., Khoury, C., Jarvis, A., Debouck, D.G. and Guarino, L., (2010). A gap analysis methodology for collecting crop gene pools: A case study with *Phaseolus* beans. *PLoS ONE*, 5(10): 1–18.
- Redden, R., Yadav, S.S., Maxted, N., Dulloo, M.E., Guarino, L. and Smith, P. (Eds.), (2015). *Crop Wild Relatives and Climate Change*. John Wiley & Sons, Inc., Hoboken, USA.

## **Chapter 7**

### **General bibliography for this chapter**

- Eyzaguirre, P.B and Linares, O.F., (2004). *Home gardens and agrobiodiversity*. Smithsonian Books, Washington DC, USA.
- Guarino, L., Ramanatha Rao, V. and Reid, R., (eds.), (1995). *Collecting plant genetic diversity: technical guidelines*. CAB International, Wallingford, UK.
- Guarino, L., Ramanatha Rao, V., and Goldberg, E., (eds.), (2011). *Collecting Plant Genetic Diversity: Technical Guidelines*. Bioversity International, Rome. <http://cropgene.bank.sgrp.cgiar.org/images/file/procedures/collecting2011/>.

- Guerrant E.O, Havens, K. and Maunder, M. (eds.), (2004). *Ex situ plant conservation: supporting species survival in the wild*. Island Press, Washington DC, USA.
- Hawkes, J.G., Maxted, N. and Ford-Lloyd, B.V., (2000). *The ex situ conservation of plant genetic resources*. pp. 1-250. Kluwer, Dordrecht.
- Heywood, V.H. and Dulloo, M.E., (2005). *In situ conservation of wild plant species – a critical global review of good practices*. International Plant Genetic Resources Institute, Rome.
- Hunter, D. and Heywood, V.H., (2011). *Crop wild relatives: a manual of in situ conservation*. Earthscan, London, UK.
- Iriondo, J.M., Maxted, N. and Dulloo, E. (eds.), (2008). *Conserving plant genetic diversity in protected areas: population management of crop wild relatives*. CAB International, Wallingford.
- Maxted, N., Ford-Lloyd, B.V. and Hawkes, J.G. (eds.), (1997). *Plant genetic conservation: the in situ approach*. Chapman & Hall, London. pp. 451.
- Savolainen, V., Powell, M.P., Davis, K., Reeves, G., and Corthals, A., (2006). *DNA and Tissue Banking for Biodiversity and Conservation: Theory, Practice and Uses*. Royal Botanic Gardens, Kew, UK.
- Smith, R.D., Dickie, J.B., Linington, S.H., Pritchard, H.W. and Probert R.J., (2003). *Seed conservation: turning science into practice*. Kew: Royal Botanic Gardens.
- Veteläinen, M., Negri, V. and Maxted, N. (eds.), (2009). *European landraces: on-farm conservation, management and use*. Bioversity Technical Bulletin 15. Pp. 1-359. Bioversity International, Rome, Italy.

## Chapter 8

### General bibliography for this chapter

- Elzinga, C.L., Salzer, D.W., Willoughby, J.W. and Gibbs, J.P., (2001). *Monitoring plant and animal populations*. Blackwell, Malden, Massachusetts.
- Hunter, D. and Heywood, V., (2011). *Crop wild relatives: a manual of in situ conservation*. Earthscan, London, UK.
- Iriondo, J.M., Maxted, N. and Dulloo, E. (eds.), (2008). *Plant Genetic Population Management*. CAB International, Wallingford.
- Koohafkhan, P. and Altieri, M.A., (2017). *Forgotten agricultural heritage: reconnecting food systems and sustainable development*. Earthscan from Routledge, London, UK.
- Stolton, S. and Dudley N. (eds.), (2010). *Arguments for protected areas: multiple benefits for conservation and use*. Earthscan, London. Pp. 189-204.
- Worboys, G.L., Lockwood, M., Kothari, A., Feary, S. and Pulford, I. (eds.), (2015) *Protected Area Governance and Management*. ANU Press, Canberra, Australia.

## Chapter 9

### General bibliography for this chapter

- Bellon, M.R., Pham, J.L. and Jackson, M.T., (1997). Genetic conservation: a role for rice farmers. In: *Plant Genetic Conservation: The In Situ Approach* (N. Maxted, B.V. Ford-Lloyd and J.G. Hawkes, eds.). Pp. 261-289. Chapman and Hall, London, United Kingdom.
- Brush, S.B., (2000). *Genes in the Field: On-Farm Conservation of Crop Diversity*. Lewis Publishers
- Hunter, D., Guarino, L., Spillane, C. and McKeown, P., (2017). *Handbook of Agricultural Biodiversity*. Routledge, UK.

- Jarvis, D. I., Hodgkin, T., Brown, A.H.D., Tuxill, J., Lopez Noriega, I., Smale, M. And Sthapit, B., (2016). *Crop Genetic Diversity in the Field and on the Farm: Principles and Applications in Research Practices*. Yale University Press, New Haven and London, USA and UK.
- Jarvis, D.I., Myer, L., Klemick, H., Guarino, L., Smale, M., Brown, A.H.D., Sadiki, M., Sthapit, B. and Hodgkin, T., (2000). *A Training Guide for In Situ Conservation On-farm. Version 1*. International Plant Genetic Resources Institute, Rome, Italy.
- Jarvis, D.I., Padoch, C. and Cooper, H.D., (2007). *Managing Biodiversity in Agricultural Ecosystems*. Columbia University Press.
- Koohafkhan, P. and Altieri, M.A., (2017). *Forgotten Agricultural Heritage: Reconnecting Food Systems and Sustainable Development*. Earthscan from Routledge.
- Maxted, N., Guarino, L., Myer, L. and Chiwona, E.A., (2002). Towards a methodology for on-farm conservation of plant genetic resources. *Genetic Resources and Crop Evolution*, 49: 31-46.
- Veteläinen, M., Negri, V. and Maxted, N. (eds.), (2009a). *European Landraces: On-farm conservation, Management and Use*. Bioversity Technical Bulletin 15. Pp. 1-359. Bioversity International, Rome, Italy.

## Chapter 10

### General bibliography for this chapter

- De Boef, W.S., Peroni, N., Subedi, A. and Thijssen, M.H. (eds.), (2013). *Community Biodiversity Management: Promoting Resilience and the Conservation of Plant Genetic Resources*. Earthscan, UK p. 353-364.
- Corrigan, C. and Hay-Edie, T., (2013). *A toolkit to support conservation by indigenous peoples and local communities: building capacity and sharing knowledge for indigenous peoples' and community conserved territories and areas (ICCAs)*'. UNEP-WCMC, Cambridge, UK.
- Chambers, R. Pacey, A. and Thrupp, L.A., (1989). *Farmer First: Farmer Innovation and Agricultural Research*. ITDG Publishing.
- Cunningham, A., (2001). *Applied Ethnobotany People, Wild Plant Use and Conservation*. Earthscan, UK.
- Friis-Hansen, E. and Sthapit, B., (2000). *Participatory Approaches to the Conservation and Use of Plant Genetic Resources*. International Plant Genetic Resources Institute (IPGRI), Rome, Italy.
- Hamilton, A. and Hamilton, P., (2006). *Plant Conservation: An Ecosystems Approach*. Earthscan, UK.
- Hunter, D. and Heywood, V., (2011). *Crop wild relatives: a manual of in situ conservation*. Earthscan, London, UK.
- Jarvis, D.I., Hodgkin, T., Brown, A.H.D., Tuxill, J., Lopez Noriega, I., Smale, M. and Sthapit, B., (2016). *Crop Genetic Diversity in the Field and on the Farm: Principles and Applications in Research Practices*. Yale University Press, Yale, USA.
- Martin, G., (2004). *Ethnobotany; A Methods Manual*. Earthscan, London, UK.
- Pretty, J., Guijt, I., Thompson, J. and Scoones, I., (2003). *Participatory Learning and Action: A Trainers Guide*, IIED.
- Scoones, I. and Thompson, J., (1994). *Beyond Farmer First: Rural People's Knowledge, Agricultural Research and Extension Practice*. ITDG Publishing, London, UK.
- Scoones, I. and Thompson, J., (2009). *Farmer First Revisited: Innovation for Agricultural Research and Development*. ITDG Publishing, London, UK.
- Tuxhill, J. and Nabhan, G.P., (2001). *People, Plants and Protected Areas: A Guide to In Situ Management*. Earthscan, UK.

## **Chapter 11**

### **General bibliography for this chapter**

- ENSCONET, (2009). ENSCONET seed collecting manual for wild species. Royal Botanic Gardens, Kew, UK and Universidad Politécnica de Madrid, Madrid, Spain. Available online: [www.kew.org/sites/default/files/ENSCONET\\_Collecting\\_protocol\\_English.pdf](http://www.kew.org/sites/default/files/ENSCONET_Collecting_protocol_English.pdf) accessed 13.08.2018.
- FAO, (2014). *Gene bank Standards for Plant Genetic Resources for Food and Agriculture*. Rev. Ed. Food and Agriculture Organization of the United Nations, Rome, Italy. Available at: <http://www.fao.org/3/a-i3704e.pdf> (Accessed 06.03.2018).
- Guarino, L., Ramanatha Rao, V. and Reid, R. (eds.), (1995). *Collecting plant genetic diversity: technical guidelines*. CAB International, Wallingford.
- Guarino L, Ramanatha Rao V, Goldberg E (editors). (2012) *Collecting Plant Genetic Diversity: Technical Guidelines. 2011 update*. Bioversity International, Rome. Available online: <https://cropgenebank.sgrp.cgiar.org/index.php/procedures-mainmenu-242/collecting>
- Hawkes, J.G., Maxted, N. and Ford-Lloyd, B.V. (2000). *The ex situ conservation of plant genetic resources*. pp. 250. Kluwer, Dordrecht.
- Smith, R.D., Dickie, J.B., Linington, S.H., Pritchard, H.W. and Probert R.J., (2003) *Seed conservation: turning science into practice*. Kew: Royal Botanic Gardens.

## **Chapter 12**

### **General bibliography for this chapter**

- Engels, J.M.M. and Visser. L., [eds] (2003). A guide to effective management of germplasm collections. *IPGRI Handbooks for Gene banks* 6. International Board for Plant Genetic Resources, Rome, Italy.
- FAO, (2014). *Gene bank Standards for Plant Genetic Resources for Food and Agriculture*. Food and Agriculture Organization of the United Nations, Rome, Italy.
- ISTA, (2017). *International Rules for Seed Testing*. International Seed Trade Association, Bassersdorf, Switzerland.
- Lee, H.-S., Jeon, Y.-A., Lee, Y.-Y., Lee, S.-Y. and Kim, Y.-G., (2013). Comparison of seed viability among 42 species stored in a gene bank. *Korean Journal of Crop Science*, 58: 432–438.
- Smith, R.D., Dickie. J.B., Linington, S.H., Pritchard, H.W. and Probert, R.J., (2003). *Seed conservation: turning science into practice*. Royal Botanic Gardens, Kew, United Kingdom.
- Tanwar, H., Sharma, S., Mor, V, and Yadav, J., (2018). Image analysis: a modern approach to seed quality testing. *Current Journal of Applied Science and Technology*, 27:40945 DOI:10.9734/cjast/2018/40945.
- Vernooy, R., Sthapit, B. and Bessette, G., (2017). *Community seed banks: Concepts and Practices – Facilitator Handbook*. Bioversity International, Rome, Italy.
- Walters, C., (2015). Gene banking seeds from natural populations. *Natural Areas Journal*, 35: 98–105.

## **Chapter 13**

### **General bibliography for this chapter**

- Adams, R.P. (1997). Conservation of DNA: DNA banking. In: Biotechnology and Plant Genetic Resources, Callow, J.A., Ford-Lloyd, B.V. and Newbury, H.J. (eds), CAB International, Oxford, pp. 163-174.
- Blackmore, S. and Oldfield, S., (2017). Plant conservation science and practice: the role of botanic gardens. Cambridge University Press, Cambridge.
- Carmen de Vicente, M. and Andersson, M.S. (eds.), (2006). *DNA banks – providing novel options for gene banks?* International Plant Genetic Resources Institute, Rome, Italy.
- Heywood, V.H. and Wyse-Jackson, P.S., (1991). Tropical Botanic Gardens: their role in conservation and development. Academic Press, London, UK.
- Reed, B.M., Engelmann, F., Dulloo, M.E. and Engels, J.M.M., (2004). *Technical guidelines for the management of field and in vitro germplasm collections.* IPGRI Handbooks for Gene banks No. 7. International Plant Genetic Resources Institute, Rome, Italy.

## **Chapter 14**

### **General bibliography for this chapter**

- Etkin, N.L., (1994). *Eating on the Wild Side.* The University of Arizona Press, Tucson, AZ, USA.
- Mabey, R., (2015). *The Cabaret of Plants.* Profile Books, London, UK.
- Mabey, R., (1996). *Flora Britannica.* Chatto and Windus, London, UK.
- Lewington, A., (2003). *Plants for People.* Transworld/Eden Project Books, London, UK.
- Pieroni, A. and Price, L.L., (2006). *Eating and Healing: Traditional Food as Medicine.* Food Products Press, New York, USA.
- RBG Kew, (2016) *State of the World's Plants Report - 2016.* Royal Botanic Gardens, Kew, UK.
- Schlüter, R.E. and von Reis, S., (1995). *Ethnobotany: Evolution of a Discipline.* Timber Press, Portland, Oregon, USA.
- Secretariat of the Convention on Biological Diversity, (2009). *The Convention on Biological Diversity Plant Conservation Report: A Review of Progress in Implementing the Global Strategy of Plant Conservation (GSPC).* Secretariat of the Convention on Biological Diversity, Ottawa, Canada.

## **Chapter 15**

### **General bibliography for this chapter**

- Annicchiarico, P., (2002). Genotype × environment interactions: challenges and opportunities for plant breeding and cultivar recommendations. *FAO Plant Production and Protection Paper 174.* Food and Agriculture Organization of the United Nations, Rome, Italy.
- Atkinson, A., Donev, A. and Tobias, R., (2007). *Optimum Experimental Designs, with SAS.* Oxford University Press, Oxford, United Kingdom.
- Federer, W.T., (2002) Construction and analysis of an augmented lattice design. *Biometrical Journal* 44: 251–257.

- Federer, W.T., Reynolds, M. and Crossa, J., (2001). Combining results from augmented designs over sites. *Agronomy Journal*, 93: 389–395.
- Fisher, R.A., (1990). *Statistical Methods, Experimental Design and Scientific Inference*. Oxford University Press, Oxford, United Kingdom.
- Grum, M. and Atino, F., (2007). Statistical analysis for plant genetic resources: clustering and indices in R made simple. *Handbooks for Gene banks* 9. Bioversity International, Rome, Italy.
- IPGRI, (2001). The design and analysis of evaluation trials of genetic resources collections. A guide for gene bank managers. *IPGRI Technical Bulletin* 4. International Plant Genetic Resources Institute, Rome, Italy.
- Sevilla Panizo, R. and Holle Ostendorf, M., (2004). *Recursos Genéticos Vegetales*. Luis León Asociados S.R.L., Lima, Perú.
- Saad, M.S. and Rao, V.R. (eds.), (2001). *Establishment and Management of Field Gene bank, a Training Manual*. IPGRI–APO, Serdang, Malaysia.
- Statistical Services Centre and University of Reading, (2001). Design and analysis of evaluation trials of genetic resources collections *IPGRI Technical Bulletin* 4. International Plant Genetic Resources Institute, Rome Italy.
- van Hintum, Th.J.L., Brown, A.H.D., Spillane, C. and Hodgkin, T., (2000). Core collections of plant genetic resources. *IPGRI Technical Bulletin* 3. International Plant Genetic Resources Institute, Rome Italy.

## Chapter 16

### General bibliography for this chapter

- Allard, R.W., (1999). *Principles of Plant Breeding*, 2<sup>nd</sup> ed. John Wiley and Sons, New York, USA.
- Acquaah, G., (2012). *Principles of Plant Genetics and Breeding*, 2<sup>nd</sup> ed. John Wiley & Sons, Ltd, New York, USA.
- Bernardo, R., (2014). *Essentials of Plant Breeding*. Stemma Press, Woodbury, Minnesota, USA.
- Borem, A. and Fritsche-Netor, R., (2014). *Biotechnology and Plant Breeding*. Springer, Academic Press, London, United Kingdom.
- Bos, I. and Caligari, P., (2008). *Selection Methods in Plant Breeding*, 2<sup>nd</sup> ed. Springer, Dordrecht, The Netherlands.
- Bradshaw, J.E., (2016). *Plant Breeding: Past, Present and Future*. Springer International Publishing AG, Switzerland.
- Brown, J. and Caligari, P., (2008). *An Introduction to Plant Breeding*. Blackwell, Oxford, United Kingdom.
- Cubero, J.I., (2003). *Introducción a la Mejora Genética Vegetal*. Ed. Mundi-Prensa, Madrid, Spain.
- Hallauer, A.R., Carena, M.J. and Miranda, F.J.B., (2010). *Quantitative Genetics in Maize Breeding*, 3<sup>rd</sup> ed. Springer, New York, USA.
- Ortiz, R., (2015). *Plant Breeding in the Omics Era*. Springer, New York, USA.
- Ortiz, R., Jarvis, A., Fox, P., Aggarwal, P.K. and Campbell, B., (2014). Plant genetic engineering, climate change and food security. *CCAFS Working Paper* 66. CGIAR Research Program Climate Change, Agriculture and Food Security, Copenhagen, Denmark.
- Robinson, R.A., (1996). *Return to Resistance: Breeding Crops to Reduce Pesticide Dependence*. AgAccess, Davis California, USA.
- Simmonds, N.W. and Smartt, J., (1999). *Principles of Crop Improvement*, 2<sup>nd</sup> ed. Wiley-Blackwell, Oxford, United Kingdom.

- Slepper, D.A. and Poehlman, J.M., (2006). *Breeding Field Crops*, 5<sup>th</sup> ed. Blackwell Publishing, Ames, Iowa, USA.
- Xu, Y., (2009). *Molecular Plant Breeding*. CAB International, Wallingford, United Kingdom.

## Chapter 17

### General bibliography for this chapter

- Ceccarelli, S., Guimaraes, E.P. and Weltzien, E., (2009). *Plant breeding and farmer participation*. Food and Agriculture Organization of the United Nations, Rome, Italy.
- Christinck, A., Weltzien, E. and Hoffman, V., (2005). *Setting breeding objectives and developing seed systems with farmers*. Margraf Publishers, Germany.
- De Boef, W.S., Peroni, N., Subedi, A and Thijssen, M.H., (2013). *Community Biodiversity Management: Promoting Resilience and the Conservation of Plant Genetic Resources*. Earthscan, UK.
- Westengen, O. and Winge, T., (2019). Farmers in Plant Breeding: Current Approaches and Perspectives. Earthscan from Routledge, UK.

## Chapter 18

### General bibliography for this chapter

- Hodgkin, T., Brown, A.H.D., van Hintum, Th.J.L. and Morales, E.A.V. (eds.), (1994). *Core Collections of Plant Genetic Resources*. Wiley, Chichester, UK.
- Painting, K.A., Perry, M.C., Denning, R.A. and Ayad, W.G., (1993). *Guidebook for genetic resources documentation*. IBPGR, Rome, Italy.