



Convergence of Food Security, Energy Security and Sustainable Agriculture (Biotechnology in Agriculture and Forestry)

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This volume examines the interrelated fields of food security, energy security and sustainable agriculture as the key to a stable global agricultural platform and is arranged in six parts. The first part is focused on policy considerations relating to food and energy security and sustainable agriculture. The authors from this part include Former Under Secretary of Agriculture **Gale Buchanan**, Former Under Secretary of Energy **Raymond Orbach** (Chapter 1), **Stephen Hughes**, **Bryan Moser** and **William Gibbons** (Chapter 2) and **Thomas Redick** (Chapter 3). Part II addresses soil and water, which are two of the key components in secure and sustainable food production. Authors from this part are **Jerry Hatfield** (Chapter 4) and **Mahbub Alam**, **Sharon Megdal** et al. (Chapter 5). The third part covers sustainable and secure food production specifically addressing genetically modified traits in Chapter 6 (**James McWilliams**) and omega-3 fatty acids in Chapter 7 (**Jay Whelan** et al.). Agronomic implications relative to food security and sustainable agriculture are described in Part IV. Authors include **Ravi Sripada**, **Pradip Das** et al. (Chapter 8), **Duska Stojšin**, **Kevin Matson** and **Richard Leitz** (Chapter 9) and **S.H. Lee**, **David Clay** and **Sharon Clay** (Chapter 10). International sustainable agriculture and food security is addressed in Part V with authors **Jeff Vitale** and **John Greenplate** (Chapter 11), **Julie Borlaug** et al. (Chapter 12) and **Sylvester Oikeh** et al. (Chapter 13). The final part covers the use of chemicals in sustainable agriculture and food/energy security with **Leonard Gianessi** and **Ashley Williams** communicating the role of herbicides and **Harold Reetz** emphasizing the importance of fertilizers both in maximizing crop yields to maintain a sustainable secure source for food production.

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