



Key  
title

## Biofuel co-products as livestock feed

Opportunities and challenges

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This publication presents state-of-the-art knowledge on the use of co-products from the biofuel industry as livestock feed. At present, biofuel production makes use of agricultural crops grown primarily on arable land, in particular maize and wheat, and sugar cane used for the production of ethanol. The publication examines the future availability of co-products in the context of climate change and predicted shortages of fossil fuel, and emphasizes the need to ensure economic sustainability and avoid conflict with traditional usage of arable land to produce food and animal feed.

*Edited by: Makkar, H.*  
FAO, Rome, 2012  
ISBN 9789251072998  
552 pp., 210 x 297 mm  
USD 105.00, Paperback

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## Biofuels and the sustainability challenge

A global assessment of sustainability issues, trends and policies for biofuels and related feedstocks

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Biofuels' global emergence in the last two decades has met with increased concerns over climate change and sustainable development. This report addresses the core issue of sustainability of biofuels and related feedstocks, drawing from sustainability-related studies, reports and policy initiatives from a broad range of countries. The report critically examines the economic, environmental and social sustainability dimensions of biofuels and reviews the major certification initiatives, schemes and regulations.

*By: Elbehri, A., Segerstedt, A., Liu, P.*  
FAO, Rome, 2012  
ISBN 9789251074145  
192 pp., 176 x 250 mm  
USD 40.00, Paperback

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## Plant mutation breeding and biotechnology

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Plant mutation breeding is a common tool available to plant breeders worldwide, and this comprehensive volume addresses the array of recent advances in mutation induction and efficiency enhancing biotechnologies made in this field, including bioinformatics, phenomics and genomics. Detailing both state-of-the-art methodologies and underlying scientific principles, the book covers chemical and physical mutagenesis, mutation induction and functional genomics, illustrated with examples of practical applications and an appendix of recommended doses of gamma and fast neutron irradiation for almost 200 plant species. It is a valuable resource for researchers and students in plant breeding and genetics.

*Edited by: Shu, Q., Forster, B.P., Nakagawa, H.*  
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ISBN 9789251070222  
614 pp., 172 x 244 mm  
USD 240.00, Hardback

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