



Encyclopedia of Dairy Sciences

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Dairy Science includes the study of milk and milk-derived food products, examining the biological, chemical, physical, and microbiological aspects of milk itself as well as the technological (processing) aspects of the transformation of milk into its various consumer products, including beverages, fermented products, concentrated and dried products, butter and ice cream.

This new edition includes information on the possible impact of genetic modification of dairy animals, safety concerns of raw milk and raw milk products, peptides in milk, dairy-based allergies, packaging and shelf-life and other topics of importance and interest to those in dairy research and industry.

- Fully reviewed, revised and updated with the latest developments in Dairy Science
- Full color inserts in each volume illustrate key concepts
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Encyclopedia of Dairy Sciences From Academic Press Bibliography

- Sales Rank: #3332371 in eBooks
- Published on: 2011-03-25
- Released on: 2011-03-25
- Format: Kindle eBook

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Editorial Review

Review

"...Highly recommended." --**Anita Ezzo, Food Science and Technology Librarian, Michigan State University Library**

"This encyclopedia should be in every library dealing with dairy science..." --**International Dairy Journal**

"The four-volume reference work serves as a complete resource guide for dairy science students, researchers, practitioners and industry personnel. Dairy cattle, their milk and milk products are the main emphases of the encyclopedia, but it also includes articles on other milk-producing animals, such as goats, sheep, horses, camels and Northern Scandinavian reindeer. There are articles specifically on economics and trade issues related to milk and milk products." --**DeltaFarm Press.com**

About the Author

Dr. Patrick Fox is Emeritus Professor of Food Chemistry at University College, Cork, Ireland. Prof. Fox's research has focused on the biochemistry of cheese, the heat stability of milk, physico-chemical properties of milk proteins and food enzymology. He has authored or co-authored about 450 research and review papers, authored or edited 25 text-books on Dairy Chemistry and was one of the founding editors of the International Dairy Journal. In recognition of his work, Prof Fox has received the Research & Innovation Award of the (Irish) National Board for Science and Technology (1983), the Miles-Marschall Award of the American Dairy Science Association (1987), Medal of Honour, University of Helsinki (1991), the DSc degree of the National University of Ireland (1993), the Senior Medal for Agricultural & Food Chemistry of the Royal Society for Chemistry (2000), the ISI Highly Cited Award in Agricultural Science (2002) and the International Dairy Federation Award for 2002. Prof Fox has been invited to lecture in various countries around the world, and has served in various capacities with the International Dairy Federation, including President of Commission F (Science, Nutrition and Education) from 1980 to 1983.

Paul McSweeney is Professor of Food Chemistry in the Department of Food and Nutritional Sciences, University College, Cork, Ireland (UCC). He graduated with a BSc (Hons) in Food Science and Technology in 1990 and a PhD in Food Chemistry from UCC in 1993 and also has an MA in Ancient Classics and a Post-Graduate Certificate in Teaching and Learning in Higher Education (2012). He spent seven months (Jan-Aug, 2014) as interim head of the College of Science, Engineering and Food Science in UCC. He worked for a year in the University of Wisconsin (1991-2) as part of PhD and as a post-doctoral research scientist in UCC (1993-4). He was appointed to the academic staff of UCC in 1995. Prof McSweeney is an experienced lecturer and researcher and has successfully managed research projects funded through the Food Industry Research Measure and its predecessors administered by the Irish Department of Agriculture and Food, the EU Framework programs, the US-Ireland Co-operative Program in Agriculture/Food Science and Technology, Bioresearch Ireland and industry. He was awarded the Marschall Danisco International Dairy Science Award of the American Dairy Science Association in 2004 and in 2009 a higher doctorate (DSc) on published work by the National University of Ireland.

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