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biotechnology derived pharmaceuticals, with special emphasis on their clinical use. It serves as a complete one-stop source for undergraduate/graduate pharmacists, pharmaceutical science students, and for those who did not receive formal training in this field. Pharmaceutical Biotechnology: Fundamentals and Applications, Fifth Edition completely updates the previous edition, and includes additional coverage on newer approaches such as oligonucleotides, mi/siRNA, gene therapy and advanced therapeutics. Daan J.A. Crommelin is Professor Emeritus Department of Pharmaceutical Sciences, Utrecht Institute for Pharmaceutical Sciences at Utrecht University, Utrecht, The Netherlands and Adjunct Professor in the Department of Pharmaceutics and Pharmaceutical Chemistry at the University of Utah, Salt Lake City, UT, USA. Robert D. Sindelar is Professor and former Dean Faculty of Pharmaceutical Sciences and The Centre for Health Evaluation & Outcomes Sciences (CHEOS), The University of British Columbia (UBC), Vancouver, BC, Canada and President of the Global Drug Commercialization Centre (GDCC)-China and Vice-President GDCC-worldwide, Chengdu, China. Bernd Meibohm is Professor of Pharmaceutical Sciences and Associate Dean for Research and Graduate Programs at the University of Tennessee Health Science Center, College of Pharmacy, Memphis, TN, USA.

Biografía del autor Daan J.A. Crommelin is Professor Emeritus Department of Pharmaceutical Sciences, Utrecht Institute for Pharmaceutical Sciences at Utrecht University, Utrecht, The Netherlands and Adjunct Professor in the Department of Pharmaceutics and Pharmaceutical Chemistry at the University of Utah, Salt Lake City, UT, USA. Robert D. Sindelar is Professor and former Dean Faculty of Pharmaceutical Sciences and The Centre for Health Evaluation & Outcomes Sciences (CHEOS), The University of British Columbia (UBC), Vancouver, BC, Canada and President of the Global Drug Commercialization Centre (GDCC)-China and Vice-President GDCC-worldwide, Chengdu, China. Bernd Meibohm is Professor of Pharmaceutical Sciences and Associate Dean for Research and Graduate Programs at the University of Tennessee Health Science Center, College of Pharmacy, Memphis, TN, USA".

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