

# Healthcare & Hospital Management

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# Biologics and Biosimilars

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### **Bio-similar nutraceuticals, herbal drugs and natural medicines: Challenges and solutions**

**Bio-similar nutraceuticals:** The nutraceuticals market is growing significantly. They are forecasting about \$176 Billion market size by 2020. The significant increase in the market size is creating pressure on the naturally available ingredients used in nutraceuticals. Hence, people are exploring possibility of using genetically modified materials to be used in place of natural materials. No one has ever studied or reported about the usefulness of this material since these were not available in the early times. This is more challenging in the traditional medicine systems such as Chinese medicine and Ayurvedic medicines. These products, many of which are based on natural plants and have lot of traditional processes before the product reaches the patients. With the advent of genetically modified natural products, will they exactly behave the way the natural products are behaving or different? When you use these genetically modified materials in nutraceuticals, herbal drugs or

natural products are you really comparing apples with apples or you are comparing apples with oranges. This presentation will cover the challenges for such products and a need for global standardization process for nutraceuticals and their ingredients.

#### **Speaker Biography**

Yashwant Pathak completed his education M.S., Ph.D. in Pharmaceutical Technology from India and EMBA and MS Conflict Management from Sullivan University, USA. He is Associate Dean for Faculty Affairs at the newly launched College of Pharmacy, University of South Florida, Tampa, Florida. With extensive experience in academia and industry, he has over 150 publications research papers, abstracts, chapters and reviews, 7 books in Nanotechnology and drug delivery systems, 6 in Nutraceuticals and several books in cultural studies. His areas of research include drug delivery systems, nanotechnology applications in pharmacy and Nutraceuticals. He has travelled extensively over 80 countries and is actively involved with many Pharmacy colleges in different countries.

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