



3-D Printed Pharmaceutical Dosage

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As 3D printing technology is becoming more accessible and the first 3D printed drug product was approved by FDA in August 2015, using 3D printing technology to develop pharmaceutical products has gained significant interests in pharmaceutical industry and academia. Various future applications of 3D printed pharmaceutical products have been projected in the news reports. Application of 3D printing technology to produce pharmaceutical products involves many areas including materials sciences, specialized 3D printers and so on. In this presentation, an overview of the development of 3D printed pharmaceutical dosage forms will be reviewed. The design and the fabrication technology to produce pharmaceutical dosage forms with unique architecture will be discussed. The versatile release modes, flexibility, and on-demand nature of 3D printed pharmaceutical dosage forms offer unprecedented opportunity for controlled release and customized dosing of pharmaceutical agents to meet various clinical needs. Hence, 3D printed pharmaceutical products will have its role for mass production of dosage forms with unique release mode and kinetics, and also play an important role in precision medicine and personalized medicine.

Biography

Xiaoling Li, Ph.D. is a Professor of Pharmaceutics and Associate Dean of Graduate Education and Research in TJ Long School of Pharmacy and Health Sciences at the University of the Pacific. Dr. Li is a Fellow of American Association of Pharmaceutical Scientists and a Fellow of American Institute for Medical and Biological Engineering. He received BS and MS from Shanghai Medical University, and Ph.D. from the University of Utah. Prior to his academic career, he was a postdoctoral research fellow at Ciba-Geigy Corp. Dr. Li has published more than 90 papers/book chapters, over 150 abstracts/presentations, and two books. Dr. Li received CRS Outstanding Paper

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