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Computational Pharmaceutics: Application of Molecular

Computational Pharmaceutics - the Application of Molecular Modeling in Drug Delivery Defang Ouyang¹
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Computational Pharmaceutics - the Application of Molecular

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He completed his PhD at The University of Queensland, Australia in 2010. Since joining Aston, he has pioneered the application of molecular modeling techniques in the field of drug delivery - "computational pharmaceuticals", including cyclodextrin-drug complexes, solid dispersions, non-viral gene delivery systems and liposome formulations.

Computational Pharmaceutics: Application of Molecular

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Introduction to Computational Pharmaceutics

A typical application of multiphase CFD methods to pharmaceutical tablet coating has been recently reported by Suzzi et al. (in press). In addition, other process modelling tools are used in the pharmaceutical industry and have been recently reviewed (Kremer and Hancock, 2006; Wassgren and Curtis, 2006; Ketterhagen et al., 2008).

(PDF) The Application of Computational Modeling...

A detailed application of these computational tools in the pharmaceutical industry is illustrated on a selective dual ALK and c-MET inhibitor crizotinib (trade name Xalkori) and on a VEGF inhibitor axitinib (trade name Inlyta).

Current Computational Approaches to Support Pharmaceutical

CFD has been recognized as a promising tool for the analysis and optimization of various pharmaceutical unit operations, process equipment, drug delivery devices, quality control equipment, etc. Application of CFD methods in pharmaceutical product and process development may lead to better process understanding, reduced number of experiments, and reduced cost and time savings (Pordal et al., 2002, Karanjkar, 2003, Kukura et al., 2003).

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