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Electrical Encapsulation Drug Delivery Techniques

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Encapsulation is a crucial strategy in several aspects of Pharmaceutical development. This can be approached from both material and processing aspects and lends to controlled release, material safeguarding and providing several engineering benefits. This talk will look at encapsulation technologies from a processing perspective; specifically focusing on electrical encapsulation methods. An overview of the underlying process will be provided and examples of how such principles can be modulated to match emerging technologies (e.g. nanoparticles, 3D printing fibrous delivery systems) will be shown. Furthermore, the talk will also discuss briefly developments in the field and the emerging roles of industry for such technologies.

Biography

Zeeshan completed his undergraduate and PhD (2007) from Queen Mary, University of London. He further conducted post-doctoral studies from Queen Mary and University College London for 6 years before taking up his first academic post as a Lecturer. Zeeshan is a full Professor and he is the EPSRC EHDA Network lead in the UK (a highly interdisciplinary initiative between academia and industry focusing on the development novel advanced drug delivery systems engineering). He is also a Royal Society Industry Fellow. He has published extensively in the area and his research group focuses on the development of novel drug delivery systems and their engineering platforms. He is on the editorial board for various notable journals and peer reviews for all major pharmaceutical and biomaterial journals.

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