

# BIOLOGICS AND BIOSIMILARS & BIOPHARMA & BIOTHERAPEUTICS

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## *Thomas J Webster*

*Northeastern University, USA*

### **The influence of nanomedicine on drug discovery**

Nanotechnology has already revolutionized disease prevention, diagnosis and treatment, as evidenced by a significant number of FDA, approved materials. In fact, many studies have indicated that nanoparticles can act as drugs and even replace pharmaceutical agents. This talk will first cover advances in the use of nanoparticles as improved drug agents to treat cancer, infections and grow tissues. Moreover, this talk will highlight how the development of nanoparticles has influenced traditional drug discovery and development. There has been a noted increase in combined nanoparticle – drug approaches but some believe the development of nanoparticles has decreased efforts in traditional drug discovery and delivery. This talk will also highlight FDA approved nanoparticles and what is necessary for the field to continue to grow.

### **Biography**

Thomas J Webster is the Chemical Engineering Department Char and Art Zafropoulo Chair at Northeastern. Prof. Webster has graduated 144 students. His lab group published 9 textbooks, 48 book chapters, 403 articles and 32 provisional/full patents. He has received numerous honors: 2012, Fellow, American Institute for Medical and Biological Engineering; 2013, Fellow, Biomedical Engineering Society; 2015, Wenzhou 580 Award; 2015, Zhejiang 1000 Talent Program; 2016, Fellow, Biomaterials Science and Engineering; and 2016, Acta Biomaterialia Silver Award. He also frequently appears on the BBC, NBC, ABC, Fox and other news outlets talking about science.

[websterthomas02@gmail.com](mailto:websterthomas02@gmail.com)

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