

## The power of biomimetic nanoparticles

**Dammy Oshodi**

University of South Florida, USA

Many healthcare professionals are not aware of nanomedicine and how it can transform healthcare practices. Many are not given the opportunity to learn not only the basics of nanotechnology but innovative nanomaterials that are enhancing drug delivery. The purpose of this presentation is to give an introduction to biomimetic nanoparticles and a basic understanding of their functions and how they are enhancing the practice of nanomedicine. It will provide an understanding of the functionality and characteristics of biomimetic nanoparticles how these details can be manipulated to enhance nanoparticle functions in drug delivery, specifically in diseases that cause inflammatory responses. This presentation will also examine the advancement of nanoparticles. For instance, the reduction of immune responses towards nanoparticles, improved targeting efficiency and easier penetration through endothelial monolayers and tumor cells. As healthcare professionals are introduced to the idea of biomimetics, participants are able to engage in interactive activities with other attendees to solidify the material.

**Conclusion & Significance:** Many healthcare professionals are not aware of nanomedicine and new advancements within the field. A basic understanding of biomimetics as a targeted drug delivery system can increase the knowledge of attendees on nanomedical practices and provide professionals with tools to advance patient care.

### Biography

Dammy Oshodi is a student at the University of South Florida, receiving her Masters in Pharmaceutical Nanotechnology. With a background in Biology and Communication Arts, She has made it her duty to make the complexities of science digestible to all people. Dammy is not only a student but the creator of a podcast and online community called The Plannter which focuses on helping millennials grow into the best version of themselves. She is also the owner and creator of Made For Nano, a platform that helps educate people on the importance of nanomedicine, create opportunities to network with other nanomedicine enthusiasts, and foster relationships to create greater collaborations within the field.

dammyosh@gmail.com