

Young Women Breaking into the Field of Nanoscience

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Abstract

Nanoscience has made substantial contributions to pharmaceutical technologies, particularly in the development of advanced drug delivery systems. During my time as a pharmacy student at the University of Prishtina, I pursued specialized research in nanoformulations during a two-month period at the University of Graz.

At the University of Graz, my research focused on formulating substances into nanoemulsions and nanostructured lipid carriers (NLCs), involving extensive optimization of the formulation process. I conducted a thorough characterization of these formulations, assessing key parameters such as particle size, zeta potential, polydispersity index (PDI), and stability. This research provided valuable insights into the potential of nanoemulsions and NLCs as efficient drug delivery systems, demonstrating their ability to enhance controlled release and targeted delivery of pharmaceutical compounds.

This work underscores the important role of nanotechnology in revolutionizing drug delivery and highlights the necessity of interdisciplinary collaboration in driving innovation within pharmaceutical science. Additionally, as more young women enter fields like nanoscience and pharmaceutical research, they are bringing new perspectives and innovative ideas, further advancing scientific discovery. Their involvement is essential in shaping the future of healthcare and technological progress.

Keywords: nanoscience, drug delivery systems, pharmaceutical research, women in science