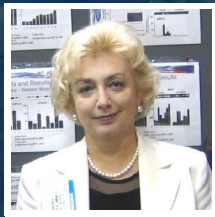


Personalized, Combinatorial, and Focused Cancer and Disease Treatment

Non-Targeted Cancer Therapy



Tamara Minko

Distinguished Professor and Chair, Department of Pharmaceutics

Targeted Cancer Therapy



CURRENT RESEARCH

Using nanoparticles to develop targeted delivery specific to diseased cells while combining multi-components and personalizing medicine

What can nanotechnology offer medicine? While research on cancer and other lethal diseases is ongoing, current cancer treatments encounter many challenges as diseased cells develop resistance, patients respond differently to treatments, or therapies kill not only diseased cells but also other healthy cells. Dr. Tamara Minko, Distinguished Professor and Chair of the Department of Pharmaceutics at Rutgers University, develops personalized, nanoscale-based targeted delivery of drugs that can be combined with other treatments to increase its effectiveness. In order to target cancer cells and treat diseases like cancer and fibrosis for which treatment options are very limited, Dr. Minko uses a complex approach: combination of nanomedicine and gene therapy to suppress the mechanisms that cause the development of these diseases. Ultimately, Dr. Minko hopes that her treatment approaches of hardly curable and highly lethal diseases will improve the overall health and wellbeing of an entire society.

Due to many side effects of anti-cancer drugs, patients often have to stop medication and risk further development of cancer. To address this problem, Dr. Minko collaborates with Rutgers New Jersey Cancer Institute, and develops effective treatment strategies that are now ready for clinical trials. An author and co-author of more than 400 publications including peer-reviewed papers, books and textbook chapters, conference proceedings, abstracts, and patents, Dr. Minko is an influential figure in the medical society, and many of her papers are well cited and published in prestigious journals with high impact factors including *Proceedings of the National Academy of Sciences of the United States of America*, *Nature*...

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AFFILIATION



Rutgers University

EDUCATION

- Ph.D. in Physiology 1984, Ukrainian Academy of Sciences

AWARDS

- New Jersey Health Foundation Excellence in Research Award, 2015
- Fellow (Elected), Controlled Release Society (CRS), 2014 – Present
- Fellow (Elected), American Institute for Medical and Biological Engineering (AIMBE), 2014 – Present
- Fellow (Elected), American Association of Pharmaceutical Scientists (AAPS), 2009 – Present
- Controlled Release Society Outstanding Pharmaceutical Paper Awards, 2008, 2010, 2011

RESEARCH AREAS

Oncology / Cancer, Technology, Nanotechnology, Oncology / Cancer

FUNDING REQUEST

Your contributions will support Dr. Tamara Minko and her team at Rutgers Biomedical and Health Sciences as they develop effective treatments for cancer and other lethal diseases. Donations will help support the \$500K/year required to support personnel, intensive preclinical animal testing, supply, equipment maintenance and services. Funding will further move Dr. Minko's research through clinical trials. Help create novel and innovative anti-cancer and other treatments; fund Dr. Minko.

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