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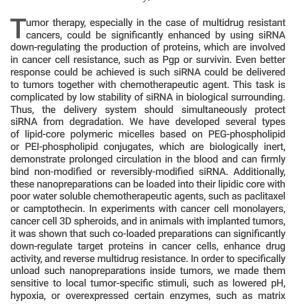
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## Tumor-targeted stimuli-sensitive combination nano preparations

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metalloproteases. Using pH-, hypoxia-, or MMP2-sensitive bonds between different components of nanopreparations coloaded with siRNA and drugs, we were able to make the systems specifically delivering biologically active agents in tumors, which resulted in significantly improved therapeutic response.

## **Biography**

Vladimir P Torchilin PhD, DSc is a University Distinguished Professor of Pharmaceutical Sciences and Director, Center for Pharmaceutical Biotechnology and Nanomedicine, Northeastern University, Boston. His interests include drug delivery and targeting, nanomedicine, multifunctional and stimuli-sensitive pharmaceutical nanocarriers, biomedical polymers, experimental cancer therapy. He has published more than 400 original papers, more than 150 reviews and book chapters, wrote and edited 12 books and holds more than 40 patents. Google Scholar shows more than 55,000 citations of his papers with H-index of 105. He is Editor-in-Chief of Current Drug Discovery Technologies, Drug Delivery and Open Nano, Co-Editor of Current Pharmaceutical Biotechnology and on the Editorial Boards of many other journals. He received more than \$30 M from the governmental and industrial sources in research funding. He has multiple honors and awards and in 2011, Times Higher Education ranked him number 2 among top world scientists in pharmacology for the period of 2000-2010.

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