Sasha Kabanov, Ph.D.

Mescal Swaim Ferguson Distinguished Professor, Eshelman School of Pharmacy at UNC-Chapel Hill

Chapel Hill, NC, US

Kabanov has conducted pioneering research that has considerably influenced current ideas and approaches in drug delivery and nanomedicine.

Alexander ?Sasha? Kabanov, Ph.D., Dr.Sci., is the Mescal Swaim Ferguson Distinguished Professor and director of the Center for Nanotechnology in Drug Delivery at the UNC Eshelman School of Pharmacy and co-director of the Carolina Institute for Nanomedicine at the University of North Carolina at Chapel Hill. Prior to joining UNC-Chapel Hill in July 2012, Kabanov served for nearly eighteen years at the University of Nebraska Medical Center where he was the Parke-Davis Professor of Pharmaceutical Sciences and director of the Center for Drug Delivery and Nanomedicine, which he founded in 2004. Kabanov has conducted pioneering research on polymeric micelles, DNA/polycation complexes, block ionomer complexes and nanogels for delivery of small drugs, and nucleic acids and proteins that have influenced considerably current ideas and approaches in drug delivery and nanomedicine. His work led to the first-in-man polymeric micelle drug (SP1049C) to treat cancer, which successfully completed Phase II clinical trial and is under further evaluation. He cofounded Supratek Pharma, Inc. (Montreal, Canada), which develops therapeutics for cancer, and Neuro10-9, Inc. (Omaha, Nebraska, and Chapel Hill, North Carolina), which focuses on diseases of the central nervous system. Kabanov has published more than 240 scientific papers and has more than 100 patents worldwide. His work has been cited over 22,000 times (Hirsch index 81) and he was named the Thomson Reuters 2014 Highly Cited Researcher in pharmacology and toxicology. His cumulative research support in academia as principal investigator has been more than $54 million. His inventions have attracted nearly $60 million in private, foundation, and company-sponsored R&D funding in industry. He founded the ongoing Nanomedicine and Drug Delivery Symposium series in 2003, co-chaired the Gordon Research Conference on Drug Carriers in Medicine and Biology in 2006, was vice-chair of the Gordon Research Conference on Cancer Nanotechnology in 2015, and is the chair elect of this conference in 2017. Kabanov received the Lenin Komsomol Prize in 1988, an NSF Career Award in 1995, the University of Nebraska ORCA Award in 2007, and the University of Nebraska Medical Center Scientist Laureate in 2009, among other distinctions. He is also the recipient of a Russian Megagrant (2010). In 2013, he was elected as a member of Academia Europaea.

Pharmaceuticals, Research, Nanotechnology

Pharmacology, Pharmaceutical Development, Chemistry, Science, Biochemistry, Life Sciences, Biotechnology, Molecular Biology, Cell Biology, University Teaching

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American Society for Nanomedicine, Controlled Release Society, American Society of Gene Therapy, American Association of Pharmaceutical Scientists, American Chemical Society

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A very high capacity polymeric micelles for drug delivery

2013 Annual Principal Investigators Meeting, NCI Alliance for Nanotechnology in Cancer

Polyion complexation and delivery
GRC Macromolecular Materials

Nanozymes for protein delivery to the brain, GRC Barriers of the CNS
Bridging Barriers to Treat CNS Disease

Polymer micelles from bench to bedside
GRC Drug Carriers in Biology and Medicine

Polymeric micelles for drug delivery: From idea to clinics
Nanotechnologies in Cancer Diagnosis, Therapy, and Prevention. The New York Academy of Sciences

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Lomonosov Moscow State University
Ph.D. Chemical Kinetics and Catalysis

Lomonosov Moscow State University
M.S. Chemistry

American Institute for Medical and Biological Engineering
Fellow.

Academia Europaea
Elected member.

MegaGrant
Awarded in chemistry from the Government of Russian Federation.

Scientist Laureate
Designated by the University of Nebraska Medical Center.

Outstanding Research and Creative Activity Award
Awarded by the University of Nebraska.
