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NANOMEDICINE AND DRUG DELIVERY

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Dendrimer nanotechnology for biomedical applications

Nanotechnology is widely expected to bring breakthroughs in specific delivery of the right therapeutic agent to the right patient at the right disease lesion. Dendrimers are ideal nanocarriers for drug delivery by their uniquely well-defined structures and multivalent cooperativity confined within a nano-sized volume per Se. We have established bio-inspired structurally flexible and self-assembling supramolecular dendrimers for drug delivery. These dendrimers are excellent nanocarriers for personalized medicine: They can form modular, responsive and adaptive nanosystems and effectively deliver various chemo and bio-therapeutics as well as imaging agents for precise diagnosis and personalized treatment in various diseases' models. These studies have offered new perspectives in dendrimer nanotechnology based biomedical applications.

Biography

Ling Peng is a leading expert in developing functional dendrimer nanosystems for drug delivery in biomedical applications. She has successfully established bio-inspired structurally flexible and self-assembling dendrimer nanosystems for drug and nucleic acid delivery. She has coordinated and participated in different European projects and actively involved in several European CAOST actions. She is currently the Research Director at the French National Scientific Research Center and a Principle Investigator at the Centre Interdisciplinaire de Nanoscience de Marseille. Her research team has been labeled by The League against Cancer in France for the period of 2016-2020 and she was awarded for the Prize of Dr. and Mrs. Henri Labbe by the French Academy of Sciences in 2017.

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