

Leveraging polymer biomaterials to improve the design of nanomedicines

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Nanomedicines, i.e., nano-encapsulated drugs, have demonstrated great potential in the treatment of several hard-to-tackle diseases, including cancer. When properly designed, nanomedicines are able to negotiate with several biological barriers, enhancing the delivery of the encapsulated drugs at the target location. [1]

Among the design parameters, the choice of the constituent material for nanomedicines plays a fundamental role, as it dictates the encapsulation efficiency, the release kinetics, and the interactions with the biological milieu. [2,3]

This presentation will discuss the role of the materials in the design of drug delivery systems, including nanomedicines for combinatorial drug delivery and for the localized treatment of site-specific pathologies. [3-5]

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References

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