

Accepted Manuscript

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PII: S0001-8686(17)30091-X
DOI: doi: [10.1016/j.cis.2017.04.006](https://doi.org/10.1016/j.cis.2017.04.006)
Reference: CIS 1740

To appear in: *Advances in Colloid and Interface Science*

Received date: 1 February 2017

Revised date: 13 March 2017

Accepted date: 17 April 2017

Please cite this article as: Angelina Angelova, Vasil M. Garamus, Borislav Angelov, Zhenfen Tian, Yawen Li, Aihua Zou , Advances in structural design of lipid-based nanoparticle carriers for delivery of macromolecular drugs, phytochemicals and anti-tumor agents. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Cis(2017), doi: [10.1016/j.cis.2017.04.006](https://doi.org/10.1016/j.cis.2017.04.006)

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Special Issue of *Advances in Colloid and Interface Science*

SI: Biocolloidnanotechnology, Guest Editors: Polina Prokopovich and Victor Starov

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Highlights

- Progress in lipid-based nanostructured dispersions for drug delivery applications highlighted.
- Key role of the structure determinations *via* the SAXS method for the nanomedicine design emphasized.
- Features of nanocarrier structural design for delivery of macromolecular drugs and anticancer phytochemicals outlined.

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