

## dr. Magdalena Cristina Stanciu

Scientific Researcher

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### Research topics

- Cationic amphiphilic polymers obtained by chemical modification of linear, cross-linked or semi-telechelic polysaccharides (synthesis, characterization, self-association process and medical applications);
- Anionic amphiphilic polysaccharides based on bile acids (synthesis, characterization and self-aggregation behavior);
- Neutral amphiphilic polysaccharides (esters, block copolymers) derived from N-containing heterocycles or bile acids, respectively (synthesis, characterization, thermal properties, self-organizing capacity and medical applications);
- Low-molecular compounds based on O-containing heterocycles (synthesis and characterization)
- Dyes/Bile salts adsorption studies on cationic amphiphilic polymers based on polysaccharides

### Profile address:

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### Scientific research

Author and co-author of 25 articles (from which 19 ISI), 4 book chapters, 1 book, over 51 participations at international and national scientific meetings, 11 national research grants (member).

Author output: h-index = 8; citations = 222; without self citations = 189

### Relevant publications

1. Magdalena Cristina Stanciu, Dalila Belei, Cristina G.Tuchilus, Marieta Nichifor  
Novel amphiphilic dextran esters with antimicrobial activity  
*International Journal of Biological Macromolecules*, **2020**, 150, 746-755; DOI: [10.1016/j.ijbiomac.2020.02.021](https://doi.org/10.1016/j.ijbiomac.2020.02.021)
2. Magdalena Cristina Stanciu, Marieta Nichifor, Georgeta Mocanu, Cristina G. Tuchilus, Gabriela L.Ailiesei  
Block copolymers containing dextran and deoxycholic acid polyesters. Synthesis, self-assembly and hydrophobic drug encapsulation  
*Carbohydrate Polymers*, **2019**, 223, 115118–115127; DOI: [10.1016/j.carbpol.2019.115118](https://doi.org/10.1016/j.carbpol.2019.115118)
3. Magdalena Cristina Stanciu, Marieta Nichifor  
Influence of dextran hydrogel characteristics on adsorption capacity for anionic dyes  
*Carbohydrate Polymers*, **2018**, 199, 75-83; DOI: [10.1016/j.carbpol.2018.07.011](https://doi.org/10.1016/j.carbpol.2018.07.011)
4. Magdalena Cristina Stanciu, Marieta Nichifor  
New biocompatible amphiphilic diblock copolymer based on dextran  
*European Polymer Journal*, **2015**, 71, 352–363; DOI: [10.1016/j.eurpolymj.2015.08.011](https://doi.org/10.1016/j.eurpolymj.2015.08.011)
5. Magdalena Cristina Stanciu, Marieta Nichifor,  
New degradable polyesters from deoxycholic acid and oligo(ethylene glycol)s  
*Polymer International*, **2013**, 62, 1236–1242; DOI: [10.1002/pi.4414](https://doi.org/10.1002/pi.4414)