

Published articles:

1. D. Dinculescu, C. L. Gîjiu, M.R. Apetroaei, R. Isopescu, I. Rău, V. Schröder, Optimization of Chitosan extraction process from *R. venosa* egg capsules waste using experimental design, *Materials*, 16(2), 525. <https://doi.org/10.3390/ma16020525>, WOS:000916189500001
2. V. Schröder, M. R. Apetroaei , I. M. Iancu, G. Mitea, R. M. Stoicescu, A. Honcea, V. Iancu, I. C. Bratu, H. Miresan, L. Enache, I. Rău, Antibacterial activity of chitosan and oligochitosan biofilms, The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023, 979-8-3503-2887-5/23, Bucharest, Romania.

Article under review

3. D. D. Dinculescu , M. R. Apetroaei , C. L. Gîjiu, M. Anton, L. Enache, V. Schröder, R. Isopescu, I. Rău, Simultaneous optimization of deacetylation degree and molar mass of chitosan from shrimp waste, *Polymers* (under review).

Article in preparation

4. L. Enache, M. Mihaly, N. Badea, M. Apetroaei, M. Anton, I. Rău, V. Schroder, NanoChitosan based materials with antioxidant properties
5. V. Schroder, M. Apetroaei, L. Enache, M. Anton, I. Rau, Optimal chitosan based formula for cell growth and microorganisms inhibition with extended applications

Scientific Events:

1. V. Schröder, G. Vochița, D. Gherghel, M. Apetroaei, L. Enache, I. M. Iancu, G. Mitea, V. Iancu, I. Rău, Chitosan-induced cytological effects on epithelial cells, *Congresul Național de Farmacie 2023 Ediția a XIX-a*, 27-29 Sept 2023, Cluj-Napoca, Romania, poster presentation
2. V. Schröder, M. R. Apetroaei, I. M. Iancu, V. Iancu, I. Rău, Hydrogels based on blends of chitosan and PEG with marine applications, *Symposium with international participation „alternative and complementary therapies (homeopathy / Phytotherapy)” 7th edition*, October 27-28, 2023, Constanța – Romania, poster presentation
3. V. Schröder, M. Apetroaei, L. Enache, I. M. Iancu, G. Mitea, R. M. Stoicescu, A. Honcea, V. Iancu, I. Rău, Evaluation of antimicrobial effects of chitosan from marine resources, *Symposium with international participation „alternative and complementary therapies (homeopathy / Phytotherapy)” 7th edition*, October 27-28, 2023, Constanța – Romania, poster presentation
4. V. Schröder, M. R. Apetroaei , I. M. Iancu, G. Mitea, R. M. Stoicescu, A. Honcea, V. Iancu, I. C. Bratu, H. Miresan, L. Enache, I Rău, Antibacterial activity of chitosan and oligochitosan biofilms, The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023, November 9-10, 2023, Bucharest, Romania, oral presentation – accepted paper for publishing.
5. V. Schröder, M. R. Apetroaei, I. M. Iancu, G. Mitea, H. Mireșan, I. Rău, Bioavailability studies of chitosan molecules on crustacean species, *International Conference under the aegis of the Romanian Academy 44th anniversary symposium of the Institute of Cellular Biology and Pathology “Nicolae Simionescu” held jointly with 40th Annual scientific session of the romanian society for cell biology International collaborative efforts to improve the management of cardiovascular diseases by performant technologies and personalized medicine 16-18 November 2023*, Bucharest-Romania, poster presentation