

**LUCRĂRI ȘTIINȚIFICE**  
**Andra-Cristina BOSTĂNARU**

**Articole în reviste cotate ISI Thomson Reuters**

1. **Andra-Cristina Bostănaru**, Irina Roșca, Bogdan Minea, Valentin Năstasă, Liliana Foia, Iosif Marincu, Mihai Mares, Ovidiu-Alexandru Mederle, [2019] - Genotype comparison of *Candida albicans* isolates from different clinical samples; *Revista Română de Medicină de Laborator* Vol. 27, Nr. 3, Iulie, DOI:10.2478/rrlm-2019-0027, impact factor: 0.8.

2. Narcisa Marangoci, Andreia Corciova, Cornelia Mircea, Anca-Roxana Petrovici, Alina Nicolescu, Laura Ursu, Valentin Nastasa, **Andra-Cristina Bostanaru**, Mihai Mares, Mihaela Pertea, Mariana Pinteala [2019] -  $\beta$ -cyclodextrin as functional excipient used for enhancing the diminazene aceturate bioavailability, *Pharmaceutics*; 11(6), 295m doi:10.3390/pharmaceutics11060295, impact factor: 3.746.

<https://doi.org/10.3390/pharmaceutics11060295>

3. Gheorghe Roman, **Andra-Cristina Bostanaru**, Valentin Nastasa, Mihai Mares [2019] - Design, synthesis and evaluation of antimycobacterial activity of 3-mercapto-1,2,4-triazole-pyrrole hybrids; *Turkish Journal of Chemistry*; 43: 531 – 546; DOI: 10.3906/kim-1811-4, impact factor: 1,377.

<http://journals.tubitak.gov.tr/chem/issues/kim-19-43-2/kim-43-2-14-1811-4.pdf>

4. Andrei-Cristian LUPU, **Andra-Cristina BOSTĂNARU**, Mihai MARES, Laura URSU, Constantin ROMAN, Raluca MÎNDRU, Liviu Dan MIRON [2019] - Ultrastructural aspects of *Yersinia ruckeri* cells after treatment with non-thermal plasma-activated water, *Revista de Chimie*, ISSN: 0034-7752, vol. 70 (1) nr. 7. pp.118-121, WOS:000460428100026, impact factor 1.412.

<http://www.revistadechimie.ro/pdf/26%20LUPU%20A%20C%201%2019.pdf>

5. Bălan, G.G., Roșca, I., Ursu, E.L., Doroftei, F., **Bostănaru, A.C.**, Hnatiuc, E., Năstasă, V., Șandru, V., Ștefănescu, G., Trifan, A. and Mareș, M., [2018] - Plasma-activated water:

a new and effective alternative for duodenoscope reprocessing. *Infection and Drug Resistance*, 17;11:727-733; DOI: 10.2147/idr.s159243, impact factor: 3.443.

<https://www.ncbi.nlm.nih.gov/pubmed/29844690>

6. Rosca, Irina, **Andra-Cristina Bostanaru**, Bogdan Minea, Valentin Nastasa, Iulian Gherghel, Carmen-Valentina Panzaru, Mihai Mares, and Valentina Ruxandra Moroți-Constantinescu, [2018] - Phenotypic and genotypic variations in Candida albicans isolates from Romanian patients. *Revista Romana de Medicina de Laborator* 26, no. 4: 405-413; DOI:10.2478/rrlm-2018-0023, impact factor: 0.8.

<http://www.rrml.ro/articole/articol.php?year=2018&vol=4&poz=2>

7. Mares, Mihai, Bogdan Minea, Valentin Nastasa, Irina Roșca, **Andra-Cristina Bostanaru**, Iosif Marincu, Vasilica Toma, Violeta Corina Cristea, Carmen Murariu, and Mariana Pinteala, [2018] - In vitro activity of echinocandins against 562 clinical yeast isolates from a Romanian multicentre study. *Medical Mycology* 56, no. 4: 442-451; DOI:10.1093/mmy/myx059, impact factor: 2.690.

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8. Rosca, Irina, Anca Roxana Petrovici, Dragos Peptanariu, Alina Nicolescu, Gianina Dodi, Mihaela Avadanei, Iuliu Cristian Ivanov, **Andra Cristina Bostanaru**, Mihai Mares, and Diana Ciolacu; [2018] - Biosynthesis of dextran by Weissella confusa and its In vitro functional characteristics. *International journal of biological macromolecules*, 107: 1765-1772., DOI: 10.1016/j.ijbiomac.2017.10.048, impact factor: 3.909.

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9. S. Pasca, V. Nastasa, **A-C. Bostanaru**, M. Grecu, M. Mares, E. Hnatiuc, [2017] - Toxic amyloid formation in mice: A possible link between bisphenol A exposure and PAW administration using polycarbonate bottles; *International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP)* 1075 - 1080, DOI: 10.1109/OPTIM.2017.7975114, WOS 000426909600168 Proceedings ISI.

<https://ieeexplore.ieee.org/document/7975114>

10. Daniela Ailincăi, Luminița Marin, Simona Morariu, Mihai Mareș, **Andra-Cristina Bostanaru**, Mariana Pinteală, Bogdan C. Simionescu, Mihai Bărbociu, [2016] – Dual

crosslinked iminoboronate-chitosan hydrogels with strong antifungal activity against *Candida* planktonic yeasts and biofilms. *Carbohydrate Polymers* 152: 306-316, DOI: 10.1016/j.carbpol.2016.07.007, impact factor: 5.158.

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11. **Andra-Cristina Bostănaru**, Eugen Hnatiuc, Irina Roșca, Ana Lavinia Vasiliu, Mirela Doroftei, Laura Ursu, Luminița Iuliana Ailincăi, Valentin Năstasă, Mihai Mareș [2016]- Long thermal interactions of PAW with normal tooth structure and different dental biomaterials, Proc. SPIE 10010, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VIII, 100103F; doi:10.1117/12.2249109; WOS000391359600123, Proceedings ISI.

<http://dx.doi.org/10.1117/12.2249109>

12. **Andra-Cristina Bostănaru**, Eugen Hnatiuc, Irina Roșca, Ana Lavinia Vasiliu, Mirela Doroftei, Laura Ursu, Luminița Iuliana Ailincăi, Valentin Năstasă, Mihai Mareș [2016]- Long thermal interactions of PAW with normal tooth structure and different dental biomaterials, Proc. SPIE 10010, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VIII, 100103F; doi:10.1117/12.2249109; Proceedings ISI.

<http://dx.doi.org/10.1117/12.2249109>

13. Gh. Roman, V. Nastasa, **A-C. Bostănaru**, Mihai Mareș, [2016] - Antibacterial activity of Mannich bases derived from 2-naphhtols, aromatic aldehydes and secondary aliphatic amines. *Bioorganic & Medicinal Chemistry Letters*, 26: 2498-2502, DOI: 10.1016/j.bmcl.2016.03.098, impact factor: 2.442.

<https://www.sciencedirect.com/science/article/pii/S0960894X16303328>

**Articole în volumele unor manifestări științifice indexate ISI  
proceedings/Articole publicate în rezumat în reviste și volumele unor  
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1. Mares M., **Bostanaru A-C.**, Kolecka A., Doroftei F., Boekhout T. [2017] - Recurrent urinary tract infection associated with Trichosporon asahii biofilm. *Trends in Medical Mycology*, Belgrade, Serbia. Mycoses, impact factor: 2.793.

**Rezumate publicate în volume ale unor manifestări științifice internaționale:**

1. Irina ROȘCA, Gheorghe G. BĂLAN, Elena-Laura URSU, Florica DOROFTEI, **Andra-Cristina BOSTĂNARU**, Eugen HNATIUC, Valentin NĂSTASĂ, Vasile ȘANDRU, Gabriela ȘTEFĂNESCU, Anca TRIFAN, Mihai MAREŞ, [2018] - Plasma activated water - a new and effective alternative for duodenoscope reprocessing. *4<sup>th</sup> International Conference on Bioinspired and Biobased Chemistry and Materials. Nice Conference*, p. 384.
2. Irina Roșca, Anca Roxana Petrovici, Adrian Fifere, Elena-Laura Ursu, Alina Nicolescu, **Andra-Cristina Bostanaru**, Mihai Mares, Narcisa Marangoci, Mariana Pinteala. [2017] - Natural exopolysaccharides as ecological excipients in drug delivery. p. 175 *The 6<sup>th</sup> International Conference Ecological & Environmental Chemistry*.
3. Irina Roșca, Anca Roxana Petrovici, Dragos Peptanariu, Alina Nicolescu, Gianina Dodi, Iuliu Cristian Ivanov, **Andra-Cristina Bostanaru**, Mihai Mares, Diana Ciocan, Mariana Pintea, [2016] - Biosynthesis of exopolysaccharides by Weisella confusa and its in vitro functional characteristics. *XII<sup>th</sup> Franco-Romanian Symposium on Polymers*.
4. **Andra-Cristina Bostănaru**, Valentin Năstasă, Eugen Hnatiuc, Mihai Mareş, [2016] - Intra- and interspecific variations of anti-staphylococcal effect of non-thermal plasma activated water. "Electrical discharges with liquids for future applications".,

*Kocaeli University - Turkey, 13-17 March, Abstract Book*, p. 15, ISBN 978-605-9160-20-9.

5. Mihai Mareş, **Andra-Cristina Bostănaru**, Valentin Năstasă, Luminița Ailincăi, Eugen Hnatiuc, Jean-Louis Brisset, [2016] - Sterilization effect of non-thermal plasma activated water on clinical important bacterial species. "Electrical discharges with liquids for future applications", *Kocaeli University - Turkey, 13-17 March, Abstract Book*, p. 15, ISBN 978-605-9160-20-9.
6. Mihai Mareş, Valentin Nastasa, **Andra-Cristina Bostănaru**, Jean-Louis Brisset, Eugen Hnatiuc, [2016] - Antimicrobial activity of non-thermal plasma activated water against food borne pathogens. *International Workshop on Plasma Agriculture. A.J. Drexel Plasma Institute*.
7. **Andra-Cristina Bostănaru**, Eugen Hnatiuc, Mihai Mareş, [2015] - Non-thermal plasma activated water (PAW) – a new mycobactericidal agent. *Bioplasma & Plasmas With Liquids - "Electrical discharges with liquids for future applications" & Biomedical Applications of Atmospheric Pressure Plasma Technology, Bertinoro, Italy*.

### **Articole în reviste și volumele unor manifestări științifice indexate în altă bază de date internaționale**

1. **Andra-Cristina Bostănaru**, Năstasă V., Roșca I., Hnatiuc E., Mareş M. [2016] - Antimicrobial effect of non-thermal plasma activated water against food-borne pathogens. *Proceedings of International Conference, Modern Technologies in the Food Industry*, Chișinău, pp. 342-347.
2. **Andra-Cristina Bostănaru**, Mihai Mareş, Aurelian Sorin Pașca, Gheorghe Savuța, [2016] - Rapid Identification of *Mycobacterium avium* subsp. *avium* from MB/BacT Bottles Using PCR. *Bulletin UASVM Veterinary Medicine* 73(1), pp. 7-13; DOI: 10.15835/buasvmcn-vm:11528.
3. Irina Lipovan, **Andra-Cristina Bostănaru**, Valentin Năstasă, Eugen Hnatiuc, Vasile Vulpe and Mihai Mareş, [2015] - Assessment of the antimicrobial effect of non-thermal plasma activated water against coagulase-positive staphylococci. *Bulletin*

*UASVM Veterinary Medicine*. Vol. 72 (2) pp. 363-367; DOI: 10.15835/buasvmcn-vm:11528.

4. **Andra-Cristina Bostănaru**, Daniela Diculencu, Gheorghe Savuța, [2014] - Prevalence of nontuberculous mycobacteria isolated from clinical specimens in Iasi county, *Lucrări Științifice seria Medicină Veterinară*, Vol. 57 (1-2), pp. 211-216.
5. **Andra-Cristina Bostănaru**, Florence Brossier, Nicolas Veziris, Vladimir Sougakoff, Gheorghe Savuța, [2014] - Structural analysis of new mutations in KatG selected on isoniazid-resistant strains of *Mycobacterium tuberculosis* in vitro, *Lucrări Științifice seria Medicină Veterinară*, Vol. 57 (1-2), pp. 217-221.
6. **Andra-Cristina Bostănaru**, Daniela Diculencu, Mihai Mareș, Gheorghe Savuța, [2014] - MPT64 Antigen Simple and Rapid Test for Identification and Discrimination of *Mycobacterium tuberculosis* Complex from Nontuberculous Mycobacteria. *Bulletin UASVM Veterinary Medicine* 71 (2). pp. 362-366; DOI: 10.15835/buasvmcn-vm:10477.
7. Ancuța Andreea-Roxana, **Andra-Cristina Bostănaru**, Pașca S.A., Cotea C.V., Savuța Ghe., [2013] - Cytological aspects of fluid effusions identified and analyzes in goats. *Lucrări Științifice, seria Medicină Veterinară*, Iași, vol. 56 (1-2), pp. 123-132.

#### **Rezumate publicate în cadrul unor manifestări științifice naționale:**

1. **Andra-Cristina Bostănaru**, Luminița Marin, Daniela Ailincăi, Mihai Mareș. [2015] - Evaluation of the Antifungal Effect of Chitosan Based Hydrogel Against Planktonic and Biofilm Yeast. *Lucrări Științifice seria Medicină Veterinară*, Iasi.
2. **Andra-Cristina Bostănaru**, Mihai Mareș, Mariana Pintea, Narcisa Marangoci, Adina Coroabă, Adrian Fifere, Elena-Laura Ursu, Irina Roșca, [2015] - Analiza instrumentală a biomasei micobacteriene tratată cu plasmă rece prin tehnici de spectroscopie vibrațională. Progrese în știința compușilor organici și macromoleculari. *A XXV-a sesiune de comunicări științifice, Zilele Academiei Ieșene*.