

Listă de Publicații

A. Publicații în reviste indexate ISI

Dragoș, N., Chiriac, C., Porav, S., **Szóke-Nagy, T.**, Coman, C., Török, L., Hegedűs, A., (2019), “*Desmodesmus tropicus* (Chlorophyta) in the Danube Delta – reassessing the phylogeny of the series Maximi”, *Eur. J. Phycol.* 5: 300-314, <https://doi.org/10.1080/09670262.2018.1558286>.

Szóke-Nagy, T., Porav, A. S., Coman, C., Cozar, I. B., Dina, N. E., Tripon, C., (2018), “Characterization of the action of antibiotics and essential oils against bacteria by surface-enhanced Raman spectroscopy and scanning electron microscopy”, *Anal. Lett. - PIM Sp. Iss.*, 52 (1): 190-200, <https://doi.org/10.1080/00032719.2018.1430150>.

Szekeres, E., Chiriac, C. M., Baricz, A., **Szóke-Nagy, T.**, Lung, I., Soran, M.-L., Rudi, K., Dragoș, N., Coman, C., (2018), “Investigating antibiotics, antibiotic resistance genes, and microbial contaminants in groundwater in relation to the proximity of urban areas”, *Environ. Pollut.*, 236: 734-744, <https://doi.org/10.1016/j.envpol.2018.01.107>.

Cozar, I. B., Colniță, A., **Szóke-Nagy, T.**, Gherman, A. M. R., Dina, N. E., (2017), “Label-free detection of bacteria using surface-enhanced Raman scattering and principal component analysis”, *Anal. Lett. - PIM Sp. Iss.*, 52 (1): 177-189, <https://doi.org/10.1080/00032719.2018.1445747>.

Dina, N. E., Zhou, H., Colniță, A., Leopold, N., **Szóke-Nagy, T.**, Coman, C., Haisch, C., (2017), “Rapid single-cell detection and identification of pathogens by using surface-enhanced Raman spectroscopy”, *Analyst*, 142: 1782-1789, <http://dx.doi.org/10.1039/C7AN00106A>.

Dina, N. E., Colniță, A., **Szóke-Nagy, T.**, Porav, A. S., (2017), “A critical review on ultrasensitive, spectroscopic-based methods for high-throughput monitoring of bacteria during infection treatment”, *Crit. Rev. Anal. Chem.*, 47 (6): 499-512, <https://doi.org/10.1080/10408347.2017.1332974>.

Dina, N. E., Leș, A., Baricz, A., **Szóke-Nagy, T.**, Leopold, N., Sârbu, C., Banciu, H. L., (2017), “Discrimination of haloarchaeal genera using Raman spectroscopy and robust methods for multivariate data analysis”, *J. Raman Spectrosc.*, 48 (8): 1122–1126, <https://doi.org/10.1002/jrs.5187>.

Opriș, O., Soran, M. L., Lung, I., Trușcă, M. R. C., **Szóke-Nagy, T.**, Coman, C., (2016), “The optimization of the antibiotics extraction from wastewaters and manure using Box–Behnken experimental design”, *Int. J. Environ. Sci. Technol.*, 14 (3): 473-480, <https://doi.org/10.1007/s13762-016-1165-2>.

B. Publicații în reviste indexate BDI

Szóke-Nagy, T., Porav, A. S., Dragoș, N., (2020), “*In silico* modelling and analysis of squalene synthase-like 1 (SSL-1) from green microalga *Botryococcus terrebilis* AICB 872”, *Studia UBB Biologia* – Accepted.

Chiriac, C. M., Barbu-Tudoran, L., Baricz, A., Szekeres, E., **Szóke-Nagy, T.**, Dragoş, N., Coman, C., (2015), "Bacterial diversity in a microbial mat colonizing a man-made geothermal spring from Romania", *Studia UBB Biologia*, LX (1): 2-22.

Szekeres, E., Dragoş, N., Porav, A. S., Baricz, A., Chiriac, C., **Szóke-Nagy, T.**, Coman, C., (2015), "Evaluation of bio-resources: monitoring *Arthrospira* growth in supplemented brackish water", *Studia UBB Biologia*, LX (Sp. Iss.): 45-48.

Szóke-Nagy, T., Hegedűs, A., Baricz, A., Chiriac, C., Szekeres E., Coman, C., Dragoş, N., (2015), "Identification, isolation and bioinformatic analysis of squalene synthase-like cDNA fragments in *Botryococcus terribilis* AICB 870 strain", *Studia UBB Biologia*, LX (1): 23-37.

Bica, A., Barbu-Tudoran, L., Drugă, B., Coman, C., Nicoară, A., **Szóke-Nagy, T.**, Dragoş, N., (2012), "*Desmodesmus communis* (Chlorophyta) from Romanian freshwater: cenobial morphology and molecular taxonomy based on the ITS2 of new isolates", *Annals of the Romanian Society for Cell Biology*, XVII (1), pp. 16-28.

C. Capitole de Carte

Baricz, A., **Szóke-Nagy, T.**, Szekeres, E., Chiriac, C., (2016), "Methods for nucleic acids extraction" in: *Methodological guide for monitoring antibiotics and antibiotic resistance in the environment*, (Ed. Coman, C.), Accent Publisher, Cluj-Napoca, Romania, 41-62, ISBN 978-606-561-165-8.

Hegedűs, A., **Szóke-Nagy, T.**, Butiuc-Keul, A., (2016), "Identification of antibiotic resistant microorganisms and the antibiotic resistance genes", in: *Methodological guide for monitoring antibiotics and antibiotic resistance in the environment*, (Ed. Coman, C.), Accent Publisher, Cluj-Napoca, Romania, 227-306, ISBN 978-606-561-165-8.

D. Cerere de Brevet

Dina, N. E., Colniţă, A., Marconi, D. S., **Szóke-Nagy, T.**, Gherman, A. M. R., Leopold, N., Ştefăncu, A., (2018), Detection process by surface amplified Raman spectroscopy (SERS) in a microfluidic device system using silver spot as a SERS amplifier substrate – Application Nr. A00976/28.11.2018 to OSIM (Romanian State Office for Inventions and Trademarks).

E. Participări la conferinţe internaţionale, naţionale şi workshop-uri.

11th International Conference on Processes in Isotopes and Molecules (PIM 2017), 27-29 Septembrie 2017, Cluj-Napoca, Romania.

7th Congress of European Microbiologists (FEMS 2017), 9-13 Iulie 2017, Valencia, Spania.

6th International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld 2015), 28-30 Octombrie 2015, Barcelona, Spain,

7th National Congress with International Participation and 33th Annual Scientific Session of Romanian Society for Cell Biology, 10-14 June 2015, Baia Mare, Romania.

Promovare și Diseminare în Domeniul Dezvoltării Durabile și Protecției Mediului, 11-14 Decembrie 2014, Sinaia, România – Workshop.

6th National Congress with International Participation and 32th Annual Scientific Session of Romanian Society for Cell Biology, 4-7 June 2014, Târgu Mureș, Romania.

16th Symposium of Biology Students in Europe, Szeged-Gödöllő, 27 July - 6 August 2012, Hungary – Workshop.

4th International Congress and 30th Annual Scientific Session of Romanian Society for Cell Biology, 13-17 June 2012, Satu Mare-Debrecen, Romania-Hungary.

Microscopia electronică în România, o nouă perspectivă a cercetării în medicină și biologie, 6 Iunie 2012, București, România – Workshop.

F. Studii publicate în volumele unor manifestări științifice recunoscute național și internațional în calitate de autor principal sau coautor.

Colniță, A., Szőke-Nagy, T., Gherman, A.-M. R., Cozar, I. B., Dina, N. E., (2018), “Detection and identification of pathogenic microorganisms using ultrasensitive Raman spectroscopy”, 15th National Conference of Biophysics, 7 September, Bucharest – Romania, *oral presentation*.

Colniță, A., Gherman, A. M. R., Szőke-Nagy, T., Cozar, I. B., Dina, N. E., (2018), “The use of *in situ* surface enhanced Raman spectroscopy technique for antibiotic resistance determination of pathogenic microorganisms”, 5th International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-AMBES 2018), 23-25 May, Brașov – Romania, *poster presentation*.

Buimaga-Iarinca, L., Morari, C., Colniță, A., Neamțu, S., Fischer-Fodor, E., Szőke-Nagy, T., Farcas, A., Turcu, I., (2018), “IMAGCELL – Assessing living cells natural features by employing optical microscopy and statistical analysis”, 5th International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-AMBES 2018), 23-25 May, Brașov – Romania, *oral presentation*.

Gherman, A. M. R., Marconi, D., Colniță, A., Szabo, L., Leopold, N., Szőke-Nagy, T., Dina, N. E., (2018), “Microfluidic portable device for pathogens’ rapid SERS detection”, 5th International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-AMBES 2018), 23-25 May, Brașov – Romania, *poster presentation*.

Porav, S., Szőke-Nagy, T., Dina, N. E., Cozar, B., Muntean, C., Tripon, C., (2017), “Structural features induced in pathogenic bacteria by their interaction with natural and synthetic antibiotic agents”, 11th International Conference on Processes in Isotopes and Molecules (PIM 2017), 27-29 September, Cluj-Napoca – Romania, *poster presentation*.

Szőke-Nagy, T., Gherman, A. M. R., Colniță, A., Cozar, I. B., Dina, N. E., (2017), “Antibiotic susceptibility of *Aeromonas hydrophilia* monitored through SERS mapping methodology”, 11th

- International Conference on Processes in Isotopes and Molecules (PIM 2017), 27-29 September, Cluj-Napoca – Romania, *poster presentation*.
- Hegedus, A., Porav, S., **Szőke-Nagy, T.**, Torok, L., Coman, C., Dragoș, N., (2017), “*Desmodesmus tropicus* in Danube Delta: morphological and phylogenetic approaches”, 1st International Congress of Danube Region Botanical Gardens, 7-9 September, Arad – Romania, *poster presentation*.
- Dina, N. E., Colniță, A., Cozar, I. B., **Szőke-Nagy, T.**, (2017), “Bacterial barcoding - a SERS mapping technique for ultrasensitive detection of pathogens”, 3rd International Conference on Enhanced Spectroscopies (ICES 2017), 4-7 September, München – Germany, *poster presentation*.
- Szőke-Nagy, T.**, Dina, N. E., Colniță, A., Cozar, I. B., (2017), “Bacterial cell membrane barcoding, a SERS mapping methodology for identification and detection of potential pathogenic bacteria”, 7th Congress of European Microbiologists (FEMS 2017), 9-13 July, Valencia – Spain, *poster presentation*.
- Szőke-Nagy, T.**, Dina, N. E., Porav, S., Tripon, C., (2017), “Antimicrobial and inhibitory effects of therapeutic-grade essential oils against three environmental isolated bacterial strains, 7th Congress of European Microbiologists (FEMS 2017), 9-13 July, Valencia – Spain, *poster presentation*.
- Szekeres, E., Barcz, A. I., Chiriac, C. M., **Szőke-Nagy, T.**, Andrei, Ș. A., Coman C., (2016), “Antibiotics and antibiotic resistant microorganisms: anthropic impact on natural environments”, 17th Kolozsvári Biológus Napok, 8-9 April, Cluj-Napoca – Romania, *oral presentation*.
- Szekeres, E., Dragoș, N., Porav, A. S., Baricz, A., Chiriac, C., **Szőke-Nagy, T.**, Coman, C., (2015), “Evaluation of bio-resources: Monitoring *Arthrospira* growth in supplemented brackish water”, International Conference: Molecular Biology – Current Aspects and Prospects, 6-8 November, Cluj-Napoca – Romania, *poster presentation*.
- Andrei, Ș. A., Szekeres, E. K., **Szőke-Nagy, T.**, Chiriac, C. M., Baricz, A. I., Dragoș, N., Coman, C., (2015), “Environmental filtering reduces antibiotic resistance genes abundance in urban wastewater treatment plants”, 6th International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld 2015), 28-30 October, Barcelona – Spain, *poster presentation*.
- Chiriac, CM., Szekeres, E. K., Baricz, A. I., **Szőke-Nagy, T.**, Andrei, Ș. A., Dragoș, N., Coman, C., (2015), “Evaluation of antibiotic resistance genes in human impacted environments from Romania: a preliminary step for an environmental protection strategy”, 6th International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld 2015), 28-30 October, Barcelona – Spain, *poster presentation*.
- Coman, C., Baricz, A. I., Chiriac, C. M., Szekeres, E. K., **Szőke-Nagy, T.**, Andrei, Ș. A., Dragoș, N., (2015), “A methodological framework to monitor pollution with antibiotics and antibiotic resistant microorganisms – the EnviroAMR project”, 6th International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld 2015), 28-30 October, Barcelona – Spain, *poster presentation*.

Chiriac, C., Baricz, A., Szekeres, E., **Szőke-Nagy, T.**, Dragoş, N., Coman, C., (2015), “A perspective on the ecological functions of antibiotics in natural environments”, 7th National Congress and 33th Annual Scientific Session of Romanian Society for Cell Biology, 10-14 June, Baia Mare – Romania, *poster presentation*.

Szőke-Nagy, T., Baricz, A., Chiriac, C., Szekeres, E., Coman, C., Dragoş, N., (2015), “Identification of gene encoding squalene synthase-like 1 in five *Botryococcus terribilis* AICB Strains”, 7th National Congress and 33rd Annual Scientific Session of Romanian Society for Cell Biology, 10-14 June, Baia Mare – Romania, *poster presentation*.

Szőke-Nagy, T., Hegedűs A., Coman, C., Drugă, B., Dragoş, N., (2014), “Identification of three synthase-like cDNA fragments in *Botryococcus terribilis* AICB 870, a botryococcene producing microalga”, 6th National Congress and 32nd Annual Scientific Session of Romanian Society for Cell Biology, 4-7 June, Targu Mures – Romania, *poster presentation*.

Hegedűs (Bica), A., Coman, C., Drugă, B., **Szőke-Nagy, T.**, Sicora, C., Dragoş, N., (2013), “Single-colony PCR, a new molecular technique in studying the *Botryococcus* Genus Diversity”, 22nd International Symposium Deltas and Wetlands, Tulcea – Romania, *poster presentation*.

Filip, A., Uşiu, I., Munteanu, C., Guţu, M., **Szőke-Nagy, T.**, Crăciun, C., Guţu, D., Lang, C., Roşioru, C., (2012), “*Trigonella foenum-graecum* seeds - a natural hepatoprotector”, 4th International Congress and 30th Annual Scientific Session of Romanian Society for Cell Biology, 13-17 June, Satu Mare (RO) – Debrecen (HU), *poster presentation*.

Szőke-Nagy, T., Pribac, G., Tripon, S., Crăciun, C., Roşioru C., (2012), “Ultrastructural modifications in the liver of streptozotocin-induced diabetic rats”, 4th International Congress and 30th Annual Scientific Session of Romanian Society for Cell Biology, 13-17 June, Satu Mare (RO) – Debrecen (HU), *oral presentation*.

Trif, M., Filip, A., Crăciun, C., Munteanu, C., Uşiu, I., **Szőke-Nagy, T.**, Lukaci, C., Tripon, S., Roşioru, C., (2012), “Biological activities of furil-benzothiazole (R)- and (S)- enantiomers and racemic in the liver of ethanol-intoxicated rats”, 4th International Congress and 30th Annual Scientific Session of Romanian Society for Cell Biology, 13-17 June, Satu Mare (RO) – Debrecen (HU), *poster presentation*.

Szőke-Nagy, T., Dragoş, N., (2012), “3D structure prediction of squalene-synthases from algae and plants”, 16th Symposium of Biology Students in Europe, Szeged-Gödöllő - Hungary, 27 July - 6 August – Hungary, *poster presentation*.

G. PROIECTE DE CERCETARE

2019: *Design of highly efficient antimicrobial peptides: in silico prediction and experimental validation*, funding body: CNCS-UEFISCDI (RO), project number: PN-III-P1-1.1-TE-2016-0032, PI: Lorant JANOSI.

2018: *Emerging technologies for the industrial capitalization of 2d structures (graphene and nongraphenic)*, funding body: CNCS-UEFISCDI (RO), project number: PN-III-P1-1.2-PCCDI-2017-0387, PI: Ioan TURCU.

2018: Emerging molecular technologies based on micro and nano-structured systems with biomedical applications: CNCS-UEFISCDI (RO), project number: PN-III-P1-1.2-PCCDI-2017-0010, PI: Ioan TURCU.

2017-2018: *Development of a microfluidic portable device for pathogen's rapid SERS detection*, funding body: CNCS-UEFISCDI (RO), project number: PN-III-P2-2.1-PED-2016-0983, PI: Nicoleta Elena DINA.

2016 – 2017: *Pathogenic microorganisms' rapid detection and identification using high sensitive Raman spectroscopy*, funding body: CNCS-UEFISCDI (RO), project number: PN-II-RU-TE-2014-4-0862, PI: Nicoleta Elena DINA.

2015 – 2016: *Methodological guide for monitoring antibiotic residues and antimicrobial resistance in the environment as a supporting instrument for an enhanced quality management of surface waters and groundwater*, EEA and Norway Grants (RO), funding body: Ministry of Environment, Water and Forests, project number: 3499/20.05.2015, PI: Cristian COMAN.

Data,
31 Ianuarie 2020

Semnătura,
SZOKE-NAGY TIBERIU