

LISTA DE LUCRĂRI ȘTIINȚIFICE

Conf.univ.dr. Șuțan Nicoleta Anca

A. Teza de doctorat

1. Cercetări privind capacitatea de multiplicare *in vitro* și stabilitatea genetică a unor hibrizi intergenerici *Fragaria* x *Potentilla*, Domeniul Biologie, Universitatea Babeș-Bolyai, Cluj-Napoca (04.01.2011)

B. Cărți și capitole în cărți

B.1. Cărți publicate la edituri Universitare

1. Șuțan N.A., Popescu A., 2011. Lucrări practice de genetică. Editura Universității din Pitești, ISBN 978-606-560-211-6.
2. Șuțan N.A., Popescu A., 2011. Multiplicarea *in vitro* a căpșunului ornamental. Editura Universității din Pitești. ISBN 978-606-560-211-3.

B.2. Capitole în volume la edituri internaționale de prestigiu

1. Soare L.C., Șuțan N.A., 2018. Current Trends in Pteridophyte Extracts: From Plant to Nanoparticles. In: Fernández H. (Eds.), *Current Advances in Fern Research*, pp 329-357, Springer, Cham. https://doi.org/10.1007/978-3-319-75103-0_16, Print ISBN 978-3-319-75102-3, online ISBN 978-3-319-75103-0.
2. Heikal Y. M., Șuțan N.A., 2021. Mechanisms of Genotoxicity and Oxidative Stress Induced by Engineered Nanoparticles in Plants. In: Khan Z., Ansari MY.K., Shahwar D. (Eds), *Induced Genotoxicity and Oxidative Stress in Plants* Springer, Singapore. DOI: 10.1007/978-981-16-2074-4, eBook ISBN 978-981-16-2074-4, Hardcover ISBN: 978-981-16-2073-7, pp. 151-197.

B.3. Capitole în volume la alte edituri internaționale

1. Drăghiceanu O.A., Soare L.C., Șuțan A.N., Fierascu I., Fierascu R.C., Dobrescu C.M., 2021. The use of *Triticum* test in the evaluation of the materials' phytotoxicity, In: Fierăscu I., Fierăscu R., Soare L.C. (Eds), *Development of plant extracts and innovative phytosynthesized nanostructures mixtures with phytotherapeutic applications, in order to reduce biocenotic stress in horticultural crops*, pp.87-116, Ruse Press. ISBN 978-619-91466-2-0
2. Șuțan A.N., Șuțan C., Fierăscu I., Fierăscu R.C., Drăghiceanu O.A., Soare L.C., 2021. Applications of the *Allium* test in the evaluation of cytogenotoxicity, In: *Development of plant extracts and innovative phytosynthesized nanostructures mixtures with phytotherapeutic applications, in order to reduce biocenotic stress in horticultural crops*. pp.141-170, Ruse Press. ISBN 978-619-91466-2-0.
3. Șuțan N.A., Popescu A., 2023. Genome editing by different site-specific nucleases and their applications in improving horticultural crops. In: Khan, Z., Shahwar, D., & Heikal, Y. (Eds.), *Genome Editing and Global Food Security: Molecular Engineering Technologies for Sustainable Agriculture (1st ed.)*. Routledge, <https://doi.org/10.4324/9781003382102> eBook ISBN 9781003382102, 34 pages

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4. Vilcoci D.Ș., **Sutan N.A.***, Drăghiceanu O.A., Soare L.C., Cîrstea G., 2023. Nanoformulation Synthesis and Mechanisms of Interactions with Biological Systems. In: Khan Z., **Șuțan N.A.** (Eds.), *Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation*, CABI, pp. 18-35, ISBN: 978-1-80062-307-1, <https://doi.org/10.1079/9781800623095.0002> ***Autor corespondent**

B.4. Editor/redactor/coordonator cărți la alte edituri internaționale

1. Khan Z., **Sutan N.A.**, 2023. *Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation*, CABI, ISBN: 978-1-80062-307-1, 240 pages.

C. Articole publicate în reviste cotate ISI și BDI

C.1. Articole publicate în reviste cotate ISI (autor principal)

1. **Șuțan N.A.**, Popescu A., Isac V., 2010. *In vitro* culture medium and explant type effect on callogenesis and shoot regeneration in two genotypes of ornamental strawberry. Romanian Biotechnological Letters, 15(2) (Supplement): 12-18. <https://rombio.unibuc.ro/wp-content/uploads/2022/05/15-2-3-sup.pdf>; WOS:000277232600003; ISSN 1224-5984.
2. **Șuțan A.N.**, Fierăscu I., Fierăscu R.C., Manolescu D.Ș., Soare L.C., 2016. Comparative analytical characterization and *in vitro* cytogenotoxic activity evaluation of *Asplenium scolopendrium* L. leaves and rhizome extracts prior to and after Ag nanoparticles phytosynthesis. Industrial Crops and Products, 83: 379-386. DOI: 10.1016/j.indcrop.2016.01.011; WOS:000370894000048; ISSN 0926-6690; eISSN 1872-633X.
3. Mutlu E., Demir T., Yanik T., **Șuțan N.A.**, 2016. Determination of environmentally relevant water quality parameters in Serefiye Dam-Turkey. Fresenius Environmental Bulletin, 25(12A): 5812-5818. WOS:000392555800022; ISSN 1018-4619; eISSN 1610-2304.
4. **Șuțan N.A.**, Uță G., Bărbuceanu D., 2018. Oxidative stress and cytogenetic effects in root tip cells of *Allium cepa* L. induced by alcoholic extracts of *Leptinotarsa decemlineata* (Say). Caryologia, 71(4): 405-413. DOI: 10.1080/00087114.2018.1486117; WOS:000451826900015; ISSN 0008-7114; eISSN 2165-5391.
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6. **Sutan A.N.**, Vilcoci D.S., Fierascu I., Neblea A.M., Sutan C., Ducu C., Soare L.C., Negrea D., Avramescu S.M., Fierascu R.C., 2019. Influence of the phytosynthesis of noble metal nanoparticles on the cytotoxic and genotoxic effects of *Aconitum toxicum* Reichenb. leaves alcoholic extract. Journal of Cluster Science, 30: 647-660. DOI: 10.1007/s10876-019-01524-9; WOS:000468527400013; ISSN 1040-7278, eISSN 1572-8862
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8. **Șuțan N.A.**, Matei A.N., Oprea E., Tecuceanu V., Tătaru L.D., Moga S.G., Manolescu D.S., Topală C.M., 2020. Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia*

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9. **Șuțan N.A.**, Fierascu I., Șuțan C., Soare L.C., Neblea A.M., Raluca Somoghi, Fierăscu R.C., 2021. *In vitro* mitodepressive activity of phytofabricated silver oxide nanoparticles (Ag₂O-NPs) by leaves extract of *Helleborus odoratus* Waldst. & Kit. ex Willd. *Materials Letters*, 286: 129194. DOI: 10.1016/j.matlet.2020.129194; WOS:000615986100001; ISSN 0167-577x; eISSN 1873-4979.
 10. Popescu, D.I.; Lengyel, E.; Apostolescu, F.G.; Soare, L.C.; Botoran, O.R.; **Șuțan, N.A.***, 2022. Volatile compounds and antioxidant and antifungal activity of bud and needle extracts from three populations of *Pinus mugo* Turra growing in Romania. *Horticulturae*, 8: 952. DOI: 10.3390/horticulturae8100952; WOS:000875118700001; eISSN 2311-7524
 11. Popescu (Stegăruș) D.I., Botoran O.R., Cristea R., Mihăescu C., **Șuțan N.A.**, 2023. Effects of Geographical Area and Harvest Times on Chemical Composition and Antibacterial Activity of *Juniperus communis* L. Pseudo-Fruits Extracts: A Statistical Approach. *Horticulturae*, 9(3): 325. DOI: 10.3390/horticulturae9030325; WOS:000958909800001; eISSN 2311-7524.
 12. Apostolescu G.F., Popescu (Stegăruș) D.I., Botoran O., Sandru D., **Șuțan N.A.***, Neamtu J., 2023. Chemical and Antioxidant Profile of Hydroalcoholic Extracts of *Stachys Officinalis* L., *Stachys Palustris* L., *Stachys Sylvatica* L. from Romania. *Acta Chimica Slovenica*, 70: 231–239. DOI: 10.17344/acsi.2023.8046; WOS:001020833100007; ISSN 1318-0207; eISSN 1580-3155.
 13. Mareș C., Udrea A.-M., **Șuțan N.A.***, Avram S., 2023. Bioinformatics Tools for the Analysis of Active Compounds Identified in Ranunculaceae Species. *Pharmaceuticals*, 16(6), 842. DOI:10.3390/ph16060842; WOS:001017754500001; eISSN 1424-8247.
 14. **Șuțan N.A.**, Paunescu A., Topala C., Dobrescu C., Ponopal M.C., Popescu D.I., Soare L.C., Tamaian R., 2024. Aconitine in Synergistic, Additive and Antagonistic Approaches. *Toxins*, 16, 460. <https://doi.org/10.3390/toxins16110460>
 15. Dumitrache (Păunescu) A., **Ionescu (Șuțan) N.A.***, Țințu M.M., Ponopal M.C., Soare L.C., Țințu A.C., Atamanalp M., Baniță I.M., Pisoschi C.G., 2025. Evaluating the Discriminative Performance of Noninvasive Biomarkers in Chronic Hepatitis B/C, Alcoholic Cirrhosis, and Nonalcoholic Cirrhosis: A Comparative Analysis. *Diagnostics*, 15, 1575. <https://doi.org/10.3390/diagnostics15131575>; WOS: 001526330000001
 16. Popescu D.I., Năsture A.-M., Niculescu V.-C., Oprită C.M., **Șuțan N.A.**, 2025. Pesticide Surveillance in Fruits and Vegetables from Romanian Supply: A Data-Driven Approach. *Journal of Xenobiotics*, 15, 104. <https://doi.org/10.3390/jox15040104>; WOS: 001557786200001
 17. Pisculungeanu S.E., Soare L.C., Luțu O.A., Păunescu A., Cîrstea G., Negrea A.D., Dobrescu C.M., **Ionescu (Șuțan) N.A.**, 2025. Integrated Assessment of Silver Nanoparticles on Plant Growth and Cytogenotoxicity Using Triticum and Allium Bioassays. *Journal of Xenobiotics*, 15(5), 147. <https://doi.org/10.3390/jox15050147>;
 18. Popescu D.I., Wilhelmine C.N.*, Țița O., Niculescu V.-C.*, **Ionescu (Șuțan) N.A.**, 2025. Antioxidant Potential and Volatile Aroma Profiling of Red Wines from the Tarnave Vineyard. *Molecules*, 30(19), 3853. <https://doi.org/10.3390/molecules30193853>
 19. Dumitrache A., **Șuțan N.A.***, Popescu D.I., Soare L.C., Ponopal M.C., Mihăescu C.F., Bondoc M.D., Atamanalp M., Țințu A.C., Pisoschi C.G., Baniță I.M., Țințu M.M., 2026. A Retrospective Analysis of Hepatic Disease Burden and Progression in a Hospital-Based

C.2. Articole publicate în reviste cotate ISI (coautor)

1. Fierăscu I., Milen I.G., Ortan A., Fierăscu R.C., Avramescu S.M., Ionescu D., **Sutan A.**, Brînzan A., Ditu L.M., 2017. Phyto-mediated metallic nanoarchitectures *via Melissa officinalis* L.: synthesis, characterization and biological properties. Scientific Reports, 7: 12428. DOI: 10.1038/s41598-017-12804-7; WOS:000413526600001; ISSN 2045-2322.
2. Fierascu R.C., Georgiev M.I., Fierascu I., Ungureanu C., Avramescu S.M., Ortan A., Georgescu M.I., **Sutan N.A.**, Zanfirescu A., Dinu-Pirvu C.E., Velescu B.S., Anuta V., 2017. Mitodepressive, antioxidant, antifungal and anti-inflammatory effects of wild-growing Romanian native *Arctium lappa* L. (Asteraceae) and *Veronica persica* Poiret (Plantaginaceae). Food and Chemical Toxicology, 111: 44–52. DOI: 10.1016/j.fct.2017.11.008; WOS:000423248100005; ISSN 0278-6915; eISSN 1873-6351
3. Fierascu I., Ungureanu C., Avramescu S.M., Cimpeanu C., Georgescu M.I., Fierascu R. C., Ortan A., **Sutan A.N.**, Anuta V., Zanfirescu A., Dinu-Pirvu C.E., Velescu B.S., 2018. Genoprotective, antioxidant, antifungal and anti-inflammatory evaluation of hydroalcoholic extract of wild-growing *Juniperus communis* L. (Cupressaceae) native to Romanian southern sub-Carpathian hills. BMC Complementary and Alternative Medicine, 18:3. DOI: 10.1186/s12906-017-2066-8; WOS:000419623100001; ISSN 1472-6882.
4. Rusea I., Popescu A., Isac V., **Sutan A.N.**, Hoza D., 2018. Adventitious shoot regeneration from petiole explants in black chokeberry (*Aronia melanocarpa*). Scientific Papers-Series B-Horticulture, 62: 83-91. WOS:000449533400014, ISSN 2285-5653; eISSN 2286-1580.
5. Bonciu E., Firbas P., Fontanetti C.S., Wusheng J., Karaismailoglu M.C., Liu D., Menicucci F., Pesnya D.S., Popescu A., Romanovsky A.V., Schiff S., Ślusarczyk J., de Souza C.P., Srivastava A., **Sutan A.**, Papini A., 2018. An evaluation for the standardization of the *Allium cepa* test as cytotoxicity and genotoxicity assay. Caryologia, 71(3): 191–209. DOI: 10.1080/00087114.2018.1503496; WOS:000444990100001; ISSN 0008-7114; eISSN 2165-5391.
6. Rusea I., Popescu A., Isac V., **Sutan A.N.**, Hoza D., 2019. High efficiency shoot multiplication from *in vitro* cultured meristems of *Aronia melanocarpa* cv. Nero. Scientific Papers-Series B-Horticulture, 63 (1): 65-74. WOS:000489993900009, ISSN 2285-5653; eISSN 2286-1580.
7. Fierascu R.C., Fierascu I., Lungulescu E.M., Nicula N., Somoghi R., Dițu L.M., Ungureanu C., **Sutan A.N.**, Draghiceanu O.A., Paunescu A., Soare L.C., 2020. Phytosynthesis and radiation-assisted methods for obtaining metal nanoparticles. Journal of Materials Science, 55(5): 1915–1932. DOI: 10.1007/s10853-019-03713-3; WOS:000501006500003; ISSN 0022-2461; eISSN 1573-4803.
8. Heikal Y.M., **Sutan N.A.**, Rizwan M., Elsayed A., 2020. Green synthesized silver nanoparticles induced cytogenotoxic and genotoxic changes in *Allium cepa* L. varies with nanoparticles doses and duration of exposure. Chemosphere, 243: 125430. DOI:

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9. Valu M.V., Soare L.C., **Sutan N.A.**, Ducu C., Moga S., Hritcu L., Boiangiu R.S., Carradori S., 2020. Optimization of ultrasonic extraction to obtain erinacine a and polyphenols with antioxidant activity from the fungal biomass of *Hericium erinaceus*. Foods, 9(12): 1889. DOI: 10.3390/foods9121889. WOS:000602079200001; eISSN 2304-8158.
10. Fierascu I., Ditu L.M., **Sutan A.N.**, Drăghiceanu O.A., Fierascu R.C., Avramescu S.M., Lungulescu E.M., Nicula N., Soare L.C., 2021. Influence of gamma irradiation on the biological properties of *Asplenium scolopendrium* L. hydroalcoholic extracts. Radiation Physics and Chemistry, 181: 109175. DOI: 10.1016/j.radphyschem.2020.109175. WOS:000618757400001. ISSN 0969-806X; eISSN 1879-0895.
11. Bonciu E., Paraschivu M., **Sutan N.A.**, Olaru A.L., 2022. Cytotoxicity of Sunset Yellow and Brilliant Blue food dyes in a plant test system. Caryologia, 75(2): 143-149. DOI: 10.36253/caryologia-1579. WOS:000919222600008; ISSN 0008-7114; eISSN 2165-5391
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15. Popescu D.I., Botoran O.R., Ionete R.E., Sandru D., **Sutan N.A.**, Niculescu V.-C. 2024. Highlighting the Terroir Influence on the Aromatic Profile of Two Romanian White Wines. Applied Sciences, 14(1): 19. DOI:10.3390/app14010019 WOS:001139251200001; eISSN 2076-3417
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C.3. Articole publicate în reviste cotate BDI (autor principal)

1. **Șuțan N.A.**, Popescu A., Isac V., Corneanu G., 2008. Studies on micropropagation efficiency in ornamental strawberry varieties (*Fragaria x Potentilla*). Lucrări Științifice, USAMV “Ion Ionescu de la Brad”, Seria Horticultură, LI(51): 747-752.
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4. **Șuțan N.A.**, Popescu A., Gheorghe R., Popescu C.F., Isac V., 2009. *In vitro* micropropagation of ornamental strawberry cvs. ‘Serenata’ and the assessment of genetic stability by RAPD markers. Analele Universității din Craiova, Agricultură Montanologie Cadastru, XXXIX/B: 366-372. https://cis01.ucv.ro/analele_universitatii/agricultura/2009/vol_XXXIX_B_2009.pdf [Index Copernicus]
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