

<http://news.doctorat.ubbcluj.ro/>

Doctoral School of Integrative Biology

1. PhD Student:

Name: CIORÎȚĂ, First name: ALEXANDRA

e-mail: alexandra.ciorita@ubbcluj.ro



2. Doctorate

2.1. PhD thesis title: *Vinca* and *Catharanthus* plant extracts and their therapeutic potential applications

2.2. PhD coordinator: Prof. univ. dr. PÂRVU MARCEL

2.3. Date of PhD thesis defense (link from site): 03 September 2021
(<https://doctorat.ubbcluj.ro/ro/sustinerile-publice-ale-tezelor-de-doctorat/?an=2021&luna=0&facultate=4&domeniu=1>)

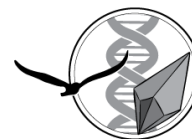
2.4. Grade: Excellent – *Summa Cum Laude*

3. Scientific articles published in:

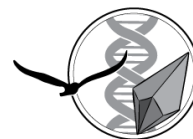
3.1. Impact factor journals (IF, AIS):

3.1.1. Ciorîță A, Suci M, Macavei S, Kacso I, Lung I, Soran M-L, et al. Green Synthesis of Ag-MnO₂ Nanoparticles using *Chelidonium majus* and *Vinca minor* extracts and their in vitro cytotoxicity. *Molecules*. 2020;25(4):819.

3.1.2. Ciorîță A, Bugiel M, Sudhakar S, Schäffer E, Jannasch A. Single depolymerizing and transport kinesins stabilize microtubule ends. *Cytoskeleton*. 2021;78(5):177-84.



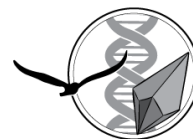
- 3.1.3. Ciorîță A**, Tripon SC, Mircea IG, Podar D, Barbu-Tudoran L, Mircea C, et al. The Morphological and Anatomical Traits of the Leaf in Representative *Vinca* Species Observed on Indoor-and Outdoor-Grown Plants. *Plants*. 2021;10(4):622.
- 3.1.4. Ciorîță A**, Zăgrean-Tuza C, Moț AC, Carpa R, Pârvu M. The Phytochemical Analysis of *Vinca* L. Species Leaf Extracts Is Correlated with the Antioxidant, Antibacterial, and Antitumor Effects. *Molecules*. 2021;26(10):3040.
- 3.1.5.** Stefan-van Staden R-I, Negut CC, Gheorghe SS, **Ciorîță A**. 3D stochastic microsensors for molecular recognition and determination of heregulin- α in biological samples. *Analytical and bioanalytical chemistry*. 2021;413(13):3487-92.
- 3.1.6.** Suci M, Mirescu C, Crăciunescu I, Macavei SG, Leoștean C, Ștefan R, Olar LE, Tripon S-C, **Ciorîță A**, Barbu-Tudoran L. In Vivo Distribution of Poly (ethylene glycol) Functionalized Iron Oxide Nanoclusters: An Ultrastructural Study. *Nanomaterials*. 2021;11(9):2184.
- 3.1.7.** Surducu V, Surducu E, Neamtu C, Mot AC, **Ciorîță A**. Effects of Long-Term Exposure to Low-Power 915 MHz Unmodulated Radiation on *Phaseolus vulgaris* L. *Bioelectromagnetics*. 2020;41(3):200-12.
- 3.1.8.** Ganea I-V, Nan A, **Ciorîță A**, Turcu R, Baci C. Responsiveness assessment of cell cultures exposed to poly (tartaric acid) and its corresponding magnetic nanostructures. *Journal of Molecular Structure*. 2021:131459.
- 3.1.9.** Lung I, Opreș O, Soran M-L, Culicov O, **Ciorîță A**, Stegarescu A, et al. The Impact Assessment of CuO Nanoparticles on the Composition and Ultrastructure of *Triticum aestivum* L. *International Journal of Environmental Research and Public Health*. 2021;18(13):6739.
- 3.1.10.** Nekvapil F, Ganea I-V, **Ciorîță A**, Hirian R, Ogresta L, Glamuzina B, et al. Wasted Biomaterials from Crustaceans as a Compliant Natural Product Regarding Microbiological, Antibacterial Properties and Heavy Metal Content for Reuse in Blue Bioeconomy: A Preliminary Study. *Materials*. 2021;14(16):4558.
- 3.1.11.** Nekvapil F, Ganea I-V, **Ciorîță A**, Hirian R, Tomšić S, Martonos IM, et al. A New Biofertilizer Formulation with Enriched Nutrients Content from Wasted Algal Biomass Extracts Incorporated in Biogenic Powders. *Sustainability*. 2021;13(16):8777.



- 3.1.12.** Opriș O, **Ciorîță A**, Soran M-L, Lung I, Copolovici D, Copolovici L. Evaluation of the photosynthetic parameters, emission of volatile organic compounds and ultrastructure of common green leafy vegetables after exposure to non-steroidal anti-inflammatory drugs (NSAIDs). *Ecotoxicology*. 2019;28(6):631-42.
- 3.1.13.** Opriș O, Lung I, Soran M-L, **Ciorîță A**, Copolovici L. Investigating the effects of non-steroidal anti-inflammatory drugs (NSAIDs) on the composition and ultrastructure of green leafy vegetables with important nutritional values. *Plant Physiology and Biochemistry*. 2020;151:342-51.
- 3.1.14.** Opriș O, Soran M-L, Lung I, **Ciorîță A**, Copolovici L. Biotransformation of Non-steroidal Anti-inflammatory Drugs Induces Ultrastructural Modifications in Green Leafy Vegetables. *Journal of Soil Science and Plant Nutrition*. 2021;21(2):1408-20.
- 3.1.15.** Opriș O-I, Soran M-L, Lung I, **Ciorita A**, Copolovici L, editors. Toxic influence of environmental pollutants on green leafy vegetables. *Modern Technologies in the Food Industry*; 2018.
- 3.1.16.** Suciu M, Ionescu CM, **Ciorita A**, Tripon SC, Nica D, Al-Salami H, et al. Applications of superparamagnetic iron oxide nanoparticles in drug and therapeutic delivery, and biotechnological advancements. *Beilstein Journal of Nanotechnology*. 2020;11(1):1092-109.
- 3.1.17.** Varodi C, Pogăcean F, **Ciorîță A**, Pană O, Leoștean C, Cozar B, et al. Nitrogen and Sulfur Co-Doped Graphene as Efficient Electrode Material for L-Cysteine Detection. *Chemosensors*. 2021;9(6):146.

3.2. IDB journals:

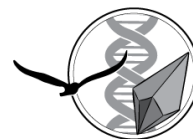
- 3.2.1.** Hirian R, Palade P, **Ciorîță A**, Macavei S, Pop V. Investigation Of Possible Uniaxial Anisotropy In Co 11 Zr 2 Magnetic Phase. *Studia Universitatis Babes-Bolyai, Physica*. 2020;65.
- 3.2.2.** Sitar C, **Ciorîță A**. Ultrastructural aspects of *Eriogaster catax* and *Eriogaster lanestris* (Lepidoptera: Lasiocampidae). *Studia Universitatis Babes-Bolyai, Biologia*. 2019;64(2).



4. Scientific conferences/symposia (please mention the author/s, title of the conference/symposium, year, country, link)

4.1. International:

- 4.1.1. A Tarța, G Popovici, **A Ciorîță**, M Suciu, M Bocăneală, SG Macavei, F Nekvapil, S Cînta-Pânzaru, I Kacso, CS Moldovan, RI Știufiuc, L Barbu-Tudoran. 13th International Conference „Processes in Isotopes and Molecules”; Poster, From macro to nanoLDPE: crumbling/grinding time and impact on bacteria, 2021, Romania. <http://pim.itim-cj.ro/>
- 4.1.2. **Alexandra CIORÎȚĂ**, Maria Suciu, Sergiu Macavei, Irina Kacso, Ildiko Lung, Loredana Soran, Marcel Pârveu. International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES; Poster, *Vinca minor* and *Chelidonium majus* as reducing agents for Ag-MnO₂ nanoparticle synthesis. <https://intelwastes.utm.md/>
- 4.1.3. **Ciorita A**, Suciu M, Carpa R, Macavei S, Kacso I, Lung I, et al. FEBS OPEN BIO; *Vinca* species: from plant extracts to green-synthesized nanoparticles; Poster, 2021: WILEY 111 RIVER ST, HOBOKEN 07030-5774, NJ USA. <https://www.2021.febscongress.org/>
- 4.1.4. **Ciorîță A**, International Exploratory Workshop Blue bioeconomy approach to wasted marine biomass: innovative ideas, techniques and translational sciences, with participation of the company METROHM Romania & BWTEK, 2021; oral presentation: Bacterial issues and regulatory aspects regarding waste reuse. http://phys.ubbcluj.ro/avizier/workshop_24june2021announce.pdf
- 4.1.5. **Ciorîță, A.**, Surducan, V., Surducan, E. 12th International Conference „Processes in Isotopes and Molecules”; Poster: Automated photographic device for real-time monitoring of in vitro biological samples, 2019, Romania, <http://pim.itim-cj.ro/2019/>;
- 4.1.6. **Ciorîță, A.**, Tripon, S.-C., Podar, D., Barbu-Tudoran, L., Pârveu, M. 18th International Balkan Workshop on Applied Physics and Materials Science; Poster: Light and electron microscopy analysis of the leaves of *Vinca* species, 2018, Romania, <http://ibwap.ro/>;
- 4.1.7. **Ciorîță, A.**, Bugiel, M., Schaeffer, E., Jannasch, A. Microtubules: From Atoms to Complex Systems – Virtual; Poster: Single kinesin-8, Kip3, stabilizes microtubules, 2020, Germania, <https://www.embo-embl-symposia.org/symposia/2020/EES20-05/index.html>;



- 4.1.8. **Ciorîță, A.**, Suciu, M., Olar, L., Mirescu, C., Tripon, S.-C., Crăciunescu, I., Barbu-Tudoran, L.; 11th International Conference "Processes in Isotopes and Molecules – P.I.M."; Poster: Tissue distribution of intravenous and intraperitoneal administration of SPIONs in a rat model, 2017, Romania, <http://pim.itim-cj.ro/2017/>;
- 4.1.9. **Ciorîță, A.**, Suciu, M., Olar, L., Mirescu, C., Tripon, S.-C., Crăciunescu, I., Barbu-Tudoran, L.; 17th International Balkan Workshop on Applied Physics; Poster: Time-dependent organ response to SPIONs in rats, 2017, Romania, <http://ibwap.univ-ovidius.ro/2017/>;

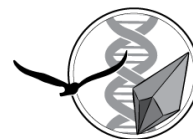
4.2. National:

- 4.2.1. **Ciorîță, A.**, Suciu, M., Macavei, S., Kacso, I., Lung, I., Soran, M.-L., Pârvu, M. 3rd Edition of the National Conference for Ph.D. students; Online, 2020, Romania, <https://conferinte.doctoranzi.geo.unibuc.ro/>;
- 4.2.2. **Ciorîță, A.**, Zăgrean-Tuza, C., Moș, A.-C., Suciu, M., Karpa, R., Barbu-Tudoran, L., Pârvu, M. 2nd Edition of the National Conference for Ph.D. students; 2020, Romania, https://scoaladoctorala.geo.unibuc.ro/wp-content/uploads/2019/09/CNSD_editia-a-II-a.pdf;
- 4.2.3. **Ciorîță, A.**, Tripon, S.-C., Barbu-Tudoran, L., Pârvu, M. Ediția V-a a Simpozionului BIOTA: Biodiversitate-Tradiții și actualitate, 2018, Romania;
- 4.2.4. **Ciorîță, A.**, Macavei, S.-G., Suciu, M., Tripon, S.-C., Crăciunescu, I., Barbu-Tudoran, L. 2nd "Conference of the Romanian Electron Microscopy Society – C.R.E.M.S.", 2017, Romania, <https://www.romicroscopy.ro/index.php/c-r-e-m-s/2017>

5. Projects/Grants:

5.1. Scientific projects/grants:

- 5.1.1. "TiO₂ nanotubes/ graphene-based nanomaterials to address the emerging contaminants pollution", RO-NO-2019-0616, 01.09.2020 – 31.08.2023, National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM), <https://www.itim-cj.ro/PNCIDI/grafid/>;
- 5.1.2. "Emerging technologies for industrial verification of 2D structures (graphene and nongraphic)", PN-III-P1-1.2-PCCDI-2017-0387, 2018-2021; National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM), <https://icechim-rezultate.ro/proiect.php?id=49&lang=ro>;
- 5.1.3. "Partnership for transfer of innovative technologies and advanced materials in visual arts (production, conservation, restoration)", UBB-TeMATIC-Art, 2019-2022, Babeș-Bolyai University, <http://tematicart.granturi.ubbcluj.ro/>;



5.1.4. “Characterization of the sub-cellular effects of functionalized magnetic nanoparticles in targeted anti-tumor therapy”, PN II RU TE 2014-4-0608, 18/April-30/September 2017, Babeş-Bolyai University,; <https://poravpaul.wixsite.com/cellspion>.

5.2. Projects for the community:

5.2.1. POCU 123886 – Antreprenoriat pentru inovare prin cercetare doctorală și postdoctorală, 2019-2022, Babeş-Bolyai University,
<https://fondurieuropene.centre.ubbcluj.ro/pocu-123886-antreprenoriat-pentru-inovare-prin-cercetare-doctorala-si-postdoctorala/>.

6. Visibility (links):

6.1. Google Scholar:

<https://scholar.google.com/citations?user=Aj4nUGoAAAAJ&hl=ro&oi=ao>;

6.2. ResearchGate: <https://www.researchgate.net/profile/Alexandra-Ciorita>;

6.3. Publons: <https://publons.com/researcher/3697174/alexandra-ciorita/>;

6.4. ORCID: <https://orcid.org/0000-0003-2991-3957>;

6.5. BrainMap: <https://www.brainmap.ro/alexandra-ciorita>.

Date: 13.10.2021

Signature