


# Professor dr. Lucian Hritcu





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## CONTACT

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lucian.hritcu/index\\_EN.xhtml](http://cercetare.bio.uaic.ro/cadre/pagini-personale/lucian.hritcu/index_EN.xhtml)

## WORK EXPERIENCE

**CURRENT** Iasi, Romania

**Professor** Alexandru Ioan Cuza University of Iasi, Faculty of Biology

Educational and research activities

**2012 – 2015** Iasi, Romania

**Associate Professor** Alexandru Ioan Cuza University of Iasi, Faculty of Biology

Educational and research activities

**2007 – 2013** Iasi, Romania

**Assistant Professor** Alexandru Ioan Cuza University of Iasi, Faculty of Biology

Educational and research activities

**2003 – 2007** Iasi, Romania

**Assistant lecturer** Alexandru Ioan Cuza University of Iasi, Faculty of Biology

Educational and research activities

**2000 – 2004** Iasi, Romania

**Junior teacher** Alexandru Ioan Cuza University of Iasi, Faculty of Biology

Educational and research activities

## EDUCATION AND TRAINING

Romania

**Habilitation** Alexandru Ioan Cuza University of Iasi

- Thesis title: "The study of behavioral and molecular mechanisms using selected experimental animal models for biomedical research"
- Affiliated to the Doctoral School of Biology since 2014

**Field of study** Biology

**2001 – 2006** Romania

**PhD in Biology, Animal Physiology and Neuroimmunomodulation specialization** Alexandru Ioan Cuza University of Iasi

**Field of study** Biology | **Final grade** Cum laudae | **Thesis** The role of some neurotransmitters and nerve areas in regulating the defense function of the animal body

**2000 – 2002** Romania

**Microbial and Cell Biotechnology Master** Alexandru Ioan Cuza University of Iasi



1996 – 2000 Romania

**Biology degree diploma** Alexandru Ioan Cuza University of Iasi

Field of study Biologie

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Romanian

**Other language(s):**

**English**

**Listening** A2

**Spoken production** A2

**Reading** A2

**Spoken interaction** A2

**Writing** A2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## SUPPLEMENTARY INFORMATION

### H-index

WOS-33, Google Scholar-42

[https://scholar.google.com/citations?user=Y\\_03hAYAAAAJ](https://scholar.google.com/citations?user=Y_03hAYAAAAJ)

### Publications

- 235 ISI articles
- 4 books
- 12 books chapters (Alexandru Ioan Cuza University of Iasi Publisher, NovaScience Publisher, Springer, Elsevier, Taylor & Francis)

### International visibility

- Editorial board member- CNS & Neurological Disorders - Drug Targets, Bentham Publisher, Impact factor: 3
- Editorial board member-Plants-Basel, MDPI, Section Board for Plant-Soil Interactions, Impact factor 4.5
- Collection Editor, Molecules, MDPI, Topical Collection "Neuroprotection Mediated by Natural Products and Their Chemical Derivatives", Impact Factor 4.6
- Editorial board member, Anatolian Journal of Botany, DergiPark Academic
- Editorial board member, International Journal of Secondary Metabolite, DergiPark Academic
- Associate Editor - Food Safety and Health, Wiley
- Reviewer for Materials Science and Engineering: C - Materials for Biological Applications, Journal of Medicinal Food, Journal of Pharmacy and Pharmacology, Journal of Essential Oil Research, Flavor and Fragrance Journal, Brain Research, Neurochemistry International, Phytomedicine, Journal of Ethnopharmacology, Pharmacology, Biochemistry and Behavior, Metabolic Brain Research, Brain research, etc.

### Research Projects

#### Principal investigator

1. 2004-2006 - Grant CNCSIS, tip A, no. 639/2004, The interaction between cholinergic, catecholaminergic and serotonergic systems in the rat learning and memory processes
2. 2006-2007- Grant CNCSIS, tip TD, no. 461/2006, - Investigating the role of neurotransmitters in regulating the animal defense function
3. 2009-2011, PNII IDEAS, code CNCSIS 85, no. 1073/2009, The impact of bacterial superantigens on the animal physiological status
4. 2014-2015, Contract 2221 TUBITAK Fellowships program for Visiting Scientists and Scientists on Sabbatical Leave, Firat University, Elazig, Turkey
5. 2022-2024 - PN-III-P4-PCE-2021-1692, no. 49/2022, Antiaggregation potential of 6-hydroxy-L-nicotine from Paenarthrobacter nicotinovorans pAO1 against amyloid peptide: in vitro and in vivo studies



Member of research teams- 9 projects

## Awards and Distinctions

- **Best Lecture Presentation Award**, National Symposium with International Participation "MEDICINAL PLANTS - PRESENT AND PERSPECTIVES", September 6-9, 2016, Piatra Neamț, Romania
- **Diploma of excellence for outstanding results** obtained in scientific research during the year 2016, Alexandru Ioan Cuza University in Iasi, October 26, 2017
- **The Emil Racoviță Award of the Romanian Academy** for the Neurophysiology monograph. The role of some neurotransmitters and nerve areas in the modulation of cognitive and immune processes, December 19, 2013, Bucharest
- **Third prize for oral presentation** at the 5th "Gheoghe Marinescu" Symposium of the National Neuroscience Society of Romania with international participation, Bucharest, October 1-3, 2009, session sponsored by the International Brain Research Organization (IBRO)
- **Special Prize for Poster Presentation** within the 5th International Congress for Medical Students and Young Doctors, Congressis 2008, Fundamental Science section, Iasi
- **The prize for the best doctoral thesis** submitted in 2006 in the field of Biology, "Alexandru Ioan Cuza" University in Iași, Scientific Coordinator: Prof. Dr. Ion Băra
- **Poster award** within The 3rd International Congress on Brain and Behavior of the International Society on Brain and Behavior and the 16th Thessaloniki Conference of the South-East European Society for Neurology and Psychiatry, November 28th-December 2nd, 2007; Chairman of the poster award: Prof. Constantin Bours, University of Geneva
- **Poster award** at the 13th International Scientific GeoConference SGEM2013, 16-22 June 2013, Albena, Bulgaria
- **Scholarship** for Summer course "Cellular Biology of Addiction", Partnered with the CSHL, July 19-25, 2012, Barcelona, Spain, Course Committee Organizer: Prof. Rafael Maldonado, MD, PhD, Pompeu Fabra University, Barcelona
- CNCSIS awards for research results

## Conferences

- **Short Lecture Speaker** - Hritcu L, Tiron A, Tiron CE, Stache PA, The impact of 6-hydroxy-L-nicotine on intracellular A $\beta$ 1-42 aggregation capacity, 5th International Conference on Natural Products Utilization: from Plants to Pharmacy Shelf (ICNPU-2023, Sts. Constantine and Helena, Bulgaria), May 30-2 June, 2023
- **Invited speaker** - Hritcu L, Tiron A, Tiron CE, Stache PA, Mihasan M, Boiangiu RS, 6-hydroxy-L-nicotine inhibits A $\beta$ 1-42 aggregation capacity in human cancer cells, 7th International Symposium on Phytochemicals in Medicine and Food (link: <https://529324562.wixsite.com/7-ispmf>), August 1-7 2023, Beijing, China
- **Invited speaker** - Hritcu L, Effects of 6-hydroxy-L-nicotine in scopolamine-induced a zebrafish (*Danio rerio*) model of cognitive impairment: behavioral and molecular approaches, 3rd International Conference on Preventive Medicine (3rd ICPM), 24-27 November 2021 Online-Turkey (link: <http://icpm2019.firat.edu.tr/#>)
- **Invited speaker** - Hritcu L, Boiangiu RS, Brinza I, Flavonoids as natural phenolic compounds for enhancing memory and antioxidant application in neurodegenerative disorders, SYMPOSIUM 'ECOLOGY AND PROTECTION OF ECOSYSTEMS' THE XIII TH EDITION, 4nd - 5th of November 2021 BACAU, ROMANIA (link: <https://epe.ub.ro/#program>)
- **Invited speaker** - Hritcu L, Eldahshan OA, Brinza I, Ayoub, IM, Baicalein 5,6-Dimethyl Ether prevents memory deficits in the scopolamine zebrafish model by regulating cholinergic and antioxidant systems, 5th International Symposium on Phytochemicals in Medicine and Food (link: <https://529324562.wixsite.com/5-ispmf>), 25.08-01.09.2021, Nanchang, China
- **Invited speaker** - Lucian Hritcu, Omayma A. Eldahshan, Ion Brinza, Razvan Stefan Boiangiu, Ahmed M. Abd-Alkhalek, Mohamed A. El-Raey, Ameliorative effects of rhoifolin in scopolamine-induced amnesic zebrafish (*Danio rerio*) model, 4th International Symposium on Phytochemicals in Medicine and Food (link: <https://381313990.wixsite.com/4-ispmf>), Nov.30-Dec.04, 2020, Xian, China

## Scientific Profile

### PubMed

<https://pubmed.ncbi.nlm.nih.gov/?term=hritcu+l.&sort=date>

### Google Scholar



[https://scholar.google.com/citations?user=Y\\_03hAYAAAAJ](https://scholar.google.com/citations?user=Y_03hAYAAAAJ)

## Publications (selective)

1. Abidar, S; **Hritcu, L**; Nhiri M., 2024, The Natural Neuroprotective Compounds Used in the 6-Hydroxydopamine-Induced Parkinson's Disease in Zebrafish: The Current Applications and Perspectives, *CNS Neurol Disord Drug Targets*. 22(10), 1472-1483 (IF 2.7)
2. Singla, R.K.; (...), **Hritcu, L.**; (...); Atanasov, A.A.; Shen, B., 2023, The International Natural Product Sciences Taskforce (INPST) and the power of Twitter networking exemplified through #INPST hashtag analysis, *Phytomedicine*, Volume 108, 154520 (IF 6.7)
3. NS El Sayed, S Abidar, M Nhiri, L Hritcu, WW Ibrahim, 2023, Aqueous extract of *Ceratonia siliqua* L. leaves elicits antioxidant, anti-inflammatory, and AChE inhibiting effects in amyloid $\beta$ 42-induced cognitive deficit mice: Role of  $\alpha$ 7-nAChR in modulating Jak2/PI3K/Akt/GSK3 $\beta$ / $\beta$ -catenin cascade, *Phytotherapy research*, 37(6):2437-2453 (IF 6.1)
4. ElNagar AS, Mohyeldin MM, Mostafa NM, Ibrahim SSA, Batiha GE, Mahmoud MH, **Hritcu L**, Eldahshan OA, 2023, Antioxidant and anti-Alzheimer activities of *Clivia miniata* (Lindl) roots, bulbs, and aerial parts: In-vitro and in-silico studies, *Biomed Pharmacother*. 2023 Sep 29;167:115382 (IF 6.9)
5. Ashraf H, Abdelkhalek YM, El-Shazly M, **Hritcu L**, Eldahshan OA, 2024, Neuroprotection induced by baicalein and baicalin, *Natural Molecules in Neuroprotection and Neurotoxicity*, 1289-1306, *Academic Press, Elsevier (book chapter)*
6. HAS El-Nashar, SH Aly, L Hritcu, OA Eldahshan, 2024, Mango (*Mangifera indica* L.): Phytochemical Profile, Nutritional Aspects and Potential Anti-Diabetic Therapeutics Studies, *Ancient and Traditional Foods, Plants, Herbs and Spices used in Diabetes*, 279-295, *CRC Press, Taylor & Francis Group (book chapter)*
7. **Hritcu, L.**, Boiangiu, R.S., Edmond, M.P., Eldahshan, O.A., 2024, Baicalin: Advances on Resources, Biosynthesis Pathway, Bioavailability, Bioactivity, and Pharmacology. In: Xiao, J. (eds) *Handbook of Dietary Flavonoids*. Springer, Cham. **(book chapter)**