

Dr. Stefanache Camelia-Paula

Functia actuala: CSIII in cadrul Institutului National de Cercetare-Dezvoltare pentru Stiinte Biologice Bucuresti/Centrul de Cercetari Biologice „Stejarul” Piatra Neamt.

Educatie: Doctor in Biologie (2015), Masterat in domeniul Biotehnologiei Microbiene si Celulare (2011), Licentiata in domeniul Biologie (2009), in cadrul Universitatii „Alexandru Ioan Cuza” din Iasi, Facultatea de Biologie.

Experienta in Proiecte de cercetare:

- Lider de proiect pentru 1 proiect international de bursa doctorala (SCIEX PhD fellowship, 2012-2013) derulat in cadrul Universitatii de Stiinte Aplicate din Zurich, Elvetia;
- Responsabil de proiect pentru 1 proiect international (Program SCOPES, 2014-2017);
- Director de proiect pentru 1 proiect national (Program PNCDI 2, Ctr. 74/2014, ARMOREC, 01.05 – 30.09.2017);
- Membru in echipa a 2 proiecte internationale si 10 proiecte nationale.

Publicatii:

- 2 carti: Ciocarlan N., Ghendov V., Izverscaia T., **Stefanache C.**, Carlen C., Simonnet X., “*Medicinal Artemisia L. species (A. annua, A. absinthium and A. lerchiana) in Republic of Moldova*”, P.P. Mediul Ambient, Chisinau, 2017, ISBN: 978-9975-53-798-8; Gille E., Cretu R.M., **Stefanache C.P.**, Gavril G.L., Sidoroff M.E., „*Medicinal and Aromatic Plants from the Wild Flora of Dobrogea (Romania)*”. Tipografia Autograf, Piatra Neamt, 2020. Print ISBN 978-973-0-33115-8, Online ISBN 978-973-0-33284-1.
- 11 articole;
- peste 50 de publicatii stiintifice (short communications si abstracte).

Brevete: 2 cereri de brevet de inventie la nivel national.

Stagii si cursuri de pregatire:

- “Summer school 2012: Cell expansion and protein expression – An introduction for standard and single-use bioreactors”, Institute of Biotechnology, Zurich University of Applied Sciences (14-31.08.2012);
- Managementul proiectelor (2010).

Premii nationale si internationale:

- **2014 – Premiul I** pentru cea mai buna prezentare tip poster, acordat de Phytochemical Society of Europe, International Conference „Phytochemicals in Medicine and Pharmacognosy”, 27 – 30 April 2014, Piatra Neamt, Romania (Presenting author).
- **2017 – Premiul II** pentru cea mai buna prezentare tip poster, acordat in cadrul “First International Congress of Danube Region Botanical Gardens”, 7 – 9 September 2017, Arad, Romania (Co-author).
- **2018 – Medalie de Bronz** acordata in cadrul Salonului International de Inventii si Inovatii “Traian Vuia”, Timisoara, Romania, 15 iunie 2018, pentru inventia “*Medicinal Artemisia L. species (A. annua, A. absinthium and A. lerchiana) in Republic of Moldova*” - Monografie stiintifica, Autori: Ciocarlan Nina, Ghendov Veaceslov, Izverscaia Tatiana, Stefanache Camelia, Carlen Christoph, Simonnet Xavier, Editura P.P. Mediul Ambient, Chisinau, 2017, ISBN: 978-9975-53-798-8

Expertiza: dezvoltare metode de extractie pentru probe vegetale, cuantificare compusilor bioactivi din probe vegetale prin metode cromatografice (analiza HPTLC si HPLC), colectare, conditionare si conservare material vegetal, culturi de celule si tesuturi vegetale *in vitro*, culturi de celule animale *in vitro*.

BrainMap link <https://www.brainmap.ro/camelia-paula-stefanache>

Publicatii (selectie)

- Stefanache C. P., Peter S., Meier B., Danila D., Tanase C., Wolfram E, 2015, Phytochemical composition of *Arnicae flos* from wild populations in the northern area of the Romanian Eastern Carpathians. *Revista de Chimie*, 66(5): 784-787.
- Mardari C., Birsan C., Stefanache C., Schiopu R., Grigoras V., Balaes T., Danila D., Tanase C., 2019, Population structure and habitat characteristics of *Arnica montana* L. in the NE Carpathians (Romania). *TUEXENIA Journal*, 39:401-421.
- Camelia STEFANACHE, Doina DANILA, Radu NECULA, Elvira GILLE, 2010, Studies regarding *in vitro* regeneration of *Arnica montana* L. from natural populations - Bistrita Valley (Eastern Carpathians), *Analele Stiintifice ale Universitatii "Al. I. Cuza" Iasi, Tomul LVI, Fasc. 1, S. II A. Biologie Vegetala*, p. 33-42.
- Stefanache C.P., Danila D., Necula R., Vantu S., Gille E, 2012, *In vivo* and *in vitro* phytochemical studies of *Arnica montana* L. species from Romanian Eastern Carpathians, *Acta Horticulturae*, 955: 143-148.
- Danila D., Stefanache C., Drutu C., Trotus E, 2012, Conventional and unconventional techniques for *in situ* conservation and capitalization in agro-systems of *Veronica officinalis* L., *Acta Horticulturae*, 955: 137-142.
- Stefanache C.P., Tanase C, 2015, The influence of biotic interactions on the distribution and abundance of *Arnica montana* L. species in natural habitats, *Acta Horticulturae*, 1099(2): 603 – 608.
- Stefanache C.P., Tanase C., Wolfram E., Danila D, 2014, *In situ* and *in vitro* comparative study on the bioproductivity of *Arnicae folium et caulis* from the northern area of the Romanian Eastern Carpathians, *Journal of Plant Development*, 21: 3–12.
- Constantin Mardari, Doina Danila, Ciprian Birsan, Tiberius Balaes, Camelia Stefanache, Catalin Tanase, 2015, Plant communities with *Arnica montana* in natural habitats from the central region of Romanian Eastern Carpathians, *Journal of Plant Development*, 22: 95-105.
- Camelia Paula Stefanache, Oana-Crina Bujor, Radu Necula, Doina Danila, Nina Ciocarlan, Veaceslav Ghendov, Christoph Carlen, Xavier Simonnet, 2016, Phenolic content of *Artemisia annua* L. from natural habitats in Republic of Moldova, *Journal of Plant Development*, 23: 61-69.
- Gille E., Tebrencu C.E., Necula R., Grigoras A.V., Stefanache C.P., Cretu R.M. 2018. Phytobiological testing of some bioactive complexes extracted from *Scirpoides holoschoenus* (L.) Soják and *Helichrysum arenarium* (L.) Moench. *Analele Stiintifice ale Universitatii „Al. I. Cuza” Iasi s. II a. Biologie vegetala*, 64: 25-38.

Proiecte (selectie)

Director / responsabil de proiect

- 2014 – 2017** SCOPES (Scientific co-operation between Eastern Europe and Switzerland) – SCOPES 2013-2016: Joint Research Projects, *Capitalization of the natural potential of several medicinal and aromatic species in the Artemisia genus with economic and ecological value in Moldova, REART*;
- 2014 – 2017** Programul: PNII – Parteneriate in domenii prioritare, competitia PCCA-2013, *Dezvoltarea unui model functional de valorificare sustenabila a diversitatii genetice si fitochimice a populatiilor naturale de Arnica montana L. din nordul Carpatilor Orientali, ARMOREC*.
- 2012 – 2013** Scientific Research Programme between Switzerland and the New Member States of the European Union Research Program (SCIEX), *The development of a cell culture system in order to obtain biological active principles and indirect regeneration for Arnica montana species, ArnicaActiveCell*.

Membru in echipa

- 2022 – prezent** Planul National de Cercetare, Dezvoltare si inovare 2015-2020, PNIII, P2 – Cresterea competitivitatii economiei romanesti prin cercetare, dezvoltare si inovare, Competitia 2021, *Sisteme bio-hibride imbogatite cu uleiuri extrase biotehnologic aplicabile in ingineria tesutului cutanat, HYTECHSKIN*;
- 2020 – 2022** Program PN III Programul 1 – Dezvoltarea sistemului national de cercetare-dezvoltare, Subprogramul 1.1 – Resurse umane Proiecte de cercetare pentru stimularea

tinerele echipe independente, Competitia 2019, *Compusi de origine vegetala cu potentiala utilizare in onicomicoze: strategii bazate pe sinergisme si nanoformulari*, PLANTSYNAN;

2018 – 2020 Program 1 – Dezvoltarea sistemului national de CD, Subprogram 1.2 – Performanta institutionala, Proiect pentru finantarea excelentei in CDI, contract nr. 22PFE/2018;

2017 – 2018 Planul National de Cercetare, Dezvoltare si inovare 2015-2020, PNIII, P2 – Cresterea competitivitatii economiei romanesti prin cercetare, dezvoltare si inovare, Competitia 2016, *Tehnologii avansate si emergente pentru obtinerea de extracte vegetale utilizate in suplimente alimentare inovatoare*, TEVIS;

2013 – 2014 Capacitati / Subprogram Cooperari bilaterale – Programul de cooperare bilateral Romania – Republica Moldova, *Identificarea si caracterizarea speciilor din genurile Nepeta, Agastache, Perilla si Lamium din flora spontana, colectii si culturi experimentale din punct de vedere biologic si ecologic*, EGRE-LAIC;

2013 – 2014 Capacitati / Subprogram Cooperari bilaterale – Programul de cooperare bilateral Romania – Republica Moldova, *Analiza polimorfismului genetic intraspecific pentru elaborarea markerilor moleculari a unor chemotipuri de plante medicinale si aromate*, GECOMAP;

2012 – 2013 Program Inovare, Subprogram „Cecuri de inovare”, *Transfer tehnologic si asistenta pentru implementarea tehnologiei de micropropagare la bioforme selectate de lavanda (Lavandula ssp.)*, BIOLAV.

<https://ccb-stejarul.ro/proiecte.html>