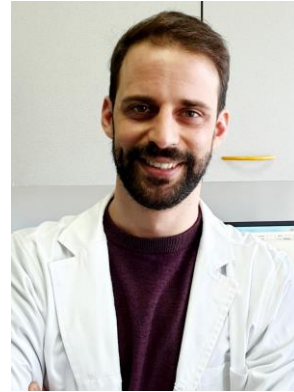


<http://news.doctorat.ubbcluj.ro/>

Doctoral School of Integrative Biology



1. PhD Student:

Name: Cruceriu **First name:** Daniel

e-mail: daniel.cruceiru@ubbcluj.ro

2. Doctorate

2.1. PhD thesis title: Pharmaceutical plant extracts in breast cancer management. *Calendula officinalis*, *Solanum chacoense* and *S. bulbocastanum*: biochemical profile, selective anti-tumor activity and associated molecular effects.

2.2. PhD coordinator: prof. dr. Rakosy-Tican Elena

2.3. Date of PhD thesis defense (link from site): 26.06.2020
(<https://doctorat.ubbcluj.ro/ro/sustinerile-publice-ale-tezelor-de-doctorat/?an=2020&facultate=4&luna=0&domeniu=0&pagina=2>)

2.4. Grade: PhD in Biology (*Summa Cum Laude*)

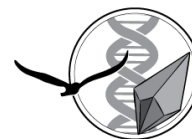
3. Scientific articles published in:

3.1. Impact factor journals (IF, AIS):

3.1.1 Cruceriu D, Baldasici O, Balacescu O, Neagoe-Berindean I, 2020. The dual role of tumor necrosis factor alpha (TNF- α) in breast cancer: molecular insights and therapeutic approaches. *Cellular Oncology*, 43(1):1-18 (ISI IF₂₀₁₉ = **5.304**, AIS₂₀₁₉ = **0.750**)

3.1.2 Cruceriu D, Diaconeasa Z, Socaci S, Socaciu C, Balacescu O, Rakosy-Tican E, 2020. Extracts of the wild potato species *Solanum chacoense* on breast cancer cells: biochemical characterization, *in vitro* selective cytotoxicity and molecular effects. *Nutrition and Cancer*, online first, DOI: 10.1080/01635581.2020.1761407 (ISI IF₂₀₁₉ = **2.363**, AIS₂₀₁₉ = **0.497**)

3.1.3 Cruceriu D, Diaconeasa Z, Socaci S, Socaciu C, Rakosy-Tican E, Balacescu O, 2020. Biochemical profile, selective cytotoxicity and molecular effects of *Calendula*

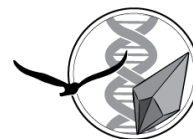


officinalis extracts on breast cancer cell lines. *Notulae Botanicae Horti Agrobotanici* 48(1):24-39 (ISI IF₂₀₁₉ = 1.168, AIS₂₀₁₈ = 0.199)

- 3.1.4 **Cruceriu D**, Erdelyi-Molnár I, Diaconeasa Z, Margineanu AM, Auror A, Rakosy-Tican E, 2020. Comparative characterization of polyphenols and antioxidant activity under wound stress and of trichomes in the somatic hybrids *Solanum bulbocastanum* + *S. tuberosum* cv. 'Rasant'. *Studia UBB Chemia* 65(2):133-148 (ISI IF₂₀₁₉ = 0.494, AIS₂₀₁₉ = 0.036)
- 3.1.5 Gavrilas LI⁺, **Cruceriu D**⁺, Ionescu C, Miere D, Balacescu O, 2019. Pro apoptotic genes as new targets for single and combinatorial treatments with resveratrol and curcumin in colorectal cancer. *Food & Function*, 10(6):3717-3726 (ISI IF₂₀₁₉ = 4.171, AIS₂₀₁₉ = 0.738); ⁺ - prim co-autori.
- 3.1.6 **Cruceriu D**, Balacescu O, Rakosy-Tican E, 2018. *Calendula officinalis*: potential roles in cancer treatment and palliative care. *Integrative Cancer Therapy* 17(4):1068-1078 (ISI IF₂₀₁₈ = 2.634, AIS₂₀₁₈ = 0.630)
- 3.1.7 Balacescu O, Sur D, Cainap C, Visan S, **Cruceriu D**, Manzat-Saplacan R, Muresan MS, Balacescu L, Lisencu C, Irimie A, 2018. The Impact of miRNA in Colorectal Cancer Progression and Its Liver Metastases. *International Journal of Molecular Sciences* 19(12):3711-3733 (ISI IF₂₀₁₈ = 4.183, AIS₂₀₁₈ = 0.932)
- 3.1.8 **Cruceriu D**, Erdelyi-Molnár I, Sconta Z, Aurori A, Socaciu C, Rakosy-Tican E, 2017. *In Vitro* Culture as a Stressful Factor Triggers Different Physiological Responses in Somatic Hybrids between *Solanum tuberosum* and *S. bulbocastanum*. *Notulae Botanicae Horti Agrobotanici*, 45(1):75-81 (ISI IF₂₀₁₇ = 0.648, AIS₂₀₁₇ = 0.178)
4. **Scientific conferences/symposia** (please mention the author/s, title of the conference/symposium, year, country, link)
- 4.1. **International:**
- 4.1.1 **Cruceriu D**, Baldasici O, Balacescu L, Balacescu O, Irimia D, Tudoran O, 2019. The dual role of tumor necrosis factor alpha (TNF- α) in 3D breast cancer cell migration (**oral presentation**), *The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology*, Iași
- 4.1.2 **Cruceriu D**, Rakosy E, Socaciu C, Balacescu O, 2018. *Calendula officinalis*: in vitro selective cytotoxic activities against breast cancer (**oral presentation**), *The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology*, București
- 4.1.3 Gavrilas L, **Cruceriu D**, Tudoran O, Ionescu C, Miere D, Balacescu O, 2017. Cytotoxic activity of resveratrol and curcumin on colorectal cancer cells, as single agents and in combination (**poster**), *Clujul Medical*, 90(6):134 Cluj-Napoca



- 4.1.4 Cruceriu D**, Chiriac C, Coman C, Carpa R, Maior MC, Farkas A, Rudi K, Podar D, 2016. Diversity and metal resistance assessment of microbial communities within the rhizosphere of plants grown on mercury metalliferous soils (**poster**), *International Conference “European Society for Soil Conservation Conference”*, Cluj-Napoca
- 4.1.5 Cruceriu D**, Erdelyi-Molnár I, Sconta Z, Marigineanu AM, Aurori A, Rakosy-Tican E, 2016. Characterization of several resistance mechanisms in somatic hybrids between *Solanum bulbocastanum* and the cultivar *S. tuberosum* ‘Rasant’ (**oral presentation**), *International Conference „Young Researchers in Biosciences”*, Cluj-Napoca
- 4.2. National:**
- 4.2.1 Cruceriu D**, Bălăcescu L, Bălăcescu O, Tudoran O, 2019. The role of TNF- α signaling in epithelial vs. mesenchymal breast cancer cell migration (**oral presentation**), *Al 29-lea Congres Anual al Societății Române de Radioterapie și Oncologie Medicală*, Cluj-Napoca
- 4.2.2 Pileczki V**, Balacescu, **Cruceriu D**, Berindean-Neagoe I, Balacescu O, Irimia D, Tudoran O, 2019. Molecular mechanisms associated with stem-like cells resistance in breast cancer (**poster**), *Zilele Institutului Oncologic “Prof. Dr. Ion Chiricuță”*, Cluj-Napoca
- 4.2.3 Balacescu O**, Balacescu L, Visan S, **Cruceriu D**, Baldasici O și colab., 2019. Genomic and microfluidic approaches to explore migratory phenotype of mammary tumors (**oral presentation**), *Zilele Institutului Oncologic “Prof. Dr. Ion Chiricuță”*, Cluj-Napoca
- 4.2.4 Cruceriu D**, Baldașici O, Sorițău O, Bălăcescu L, Tudoran O, Bălăcescu O, Irimia D, 2018. Aplicații ale tehnologiei microfluidice în caracterizarea capacității de migrare a culturilor primare de cancer mamar (**oral presentation**), *Conferința “Prezent și Viitor în abordarea afecțiunilor oncologice”*, Cluj-Napoca
- 4.2.5 Pileczki V**, Raduly L, Magdo L, Moldovan C, Moldovan A, **Cruceriu D**, Balacescu O, Achimas-Cadariu P, Berindean-Neagoe I, 2018. Optimizarea metodei de izolare a exosomilor din linii celulare prin ultracentrifugare (**poster**), *Conferința “Prezent și Viitor în abordarea afecțiunilor oncologice”*, Cluj-Napoca
- 4.2.6 Cruceriu D**, Erdelyi-Molnár I, Sconta Z, Aurori A, Socaciu C, Rakosy-Tican E, 2016. Physiological Effects of the *In Vitro* Culture on Explants Belonging to *Solanum* Genus (**oral presentation**), *Studia Biologia*, 61(1):29-30, Cluj-Napoca
- 4.2.7 Cruceriu D**, Rakosy-Tican E, 2015. *In vitro* culture: A stressful factor for the explants (**oral presentation**), *Annual National Conference for Scientific Communications in Biology*, Bistrița



5. Projects/Grants:

5.1. Scientific projects/grants:

- 5.1.1 *Partnership for the transfer of knowledge in biogenomics applications in oncology and related fields*; Funding: Programul Operațional Competitivitate (POC) Axa 1, ID: P_40_318. Duration: Oct. 2018 – Oct. 2022. Job title: Research Assistant. Institution: „Iuliu Hațieganu” University of Medicine and Pharmacy, Cluj-Napoca
- 5.1.2 *Genomic and microfluidic approaches towards blocking breast cancer cell invasion and metastasis*; Funding: Programul Operațional Competitivitate (POC) Axa 1, ID: P_37_783. Duration: Sept. 2016-Sept. 2020. Job title: Research Assistant. Institution: The Oncological Institute „Prof. Dr. Ioan Chiricuță”, Cluj-Napoca
- 5.1.3 *The remediation potential of spontaneous facultative metallophytes and their rhizosphere associated microorganisms*; Funding: Subprogramul Tinere Echipe (TE), ID: PN-II-RU-TE-2014-4-2727. Duration: Nov. 2015-Oct. 2017. Job title: Research Assistant. Institution: “Babeş-Bolyai” University, Cluj-Napoca

5.2. Projects for the community:

- 5.2.1 Scientific workshop - “Gene therapy: principles and status quo”, Faculty of Biology and Geology, “Babeş-Bolyai” University, Cluj-Napoca, March 26, 2019
- 5.2.2 Conference - “Plant compounds in cancer management. Case study: *Calendula officinalis* - from plants to medicine”, European Plant Science Association (EPSO), Cluj-Napoca, May 18, 2017
- 5.2.3 Conference - "Etiology and progress of cancer: confrontation between the laws of Darwinian evolution and the rules of embryonic development", Faculty of Biology and Geology, “Babeş-Bolyai” University, Cluj-Napoca, March 2, 2017
- 5.2.4 Conference - "Bioactive compounds of plant origin: Therapeutic agents in cancer management", “Iuliu Hațieganu” University of Medicine and Pharmacy, Cluj-Napoca, November 23, 2016

6. Visibility (links):

6.1. Google Scholar:

<https://scholar.google.com/citations?user=DL4twgEAAAAJ&hl=ro&oi=sra>

6.2. ResearchGate: https://www.researchgate.net/profile/Daniel_Crucieriu2

Date

30.01.2021

Signature

Dr. Daniel Crucieriu