

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

Doctoral School of Integrative Biology



1. PhD Student:

Name: ȚIGU, First name: ADRIAN BOGDAN

e-mail: adrianbogdantigu@gmail.com

2. Doctorate

2.1. PhD thesis title: THERAPEUTIC POTENTIAL OF *ALLIUM SATIVUM* L. AND *ALLIUM FISTULOSUM* L. PLANTS

2.2. PhD coordinator: prof. dr. PÂRVU MARCEL

2.3. Date of PhD thesis defense (link from site): 18.02.2021
(<https://doctorat.ubbcluj.ro/ro/sustinerile-publice-ale-tezelor-de-doctorat/?an=2021&luna=0&facultate=4&domeniu=0>)

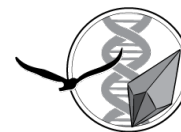
2.4. Grade: *Summa Cum Laude*

3. Scientific articles published in:

3.1. Impact factor journals (IF, AIS):

3.1.1. Țigu, A.B., Moldovan, C.S., Toma, V.-A., Farcaș, A.D., Moț, A.C., Jurj, A., Fischer-Fodor, E., Mircea, C., Pârvu, M. (2021). Phytochemical Analysis and *In Vitro* Effects of *Allium fistulosum* L. and *Allium sativum* L. Extracts on Human Normal and Tumor Cell Lines: A Comparative Study. *Molecules* 26. <https://doi.org/10.3390/molecules26030574>; IF-3.267; AIS – 0.6;

3.1.2. Țigu, A.B., Toma, V.-A., Moț, A.C., Jurj, A., Moldovan, C.S., Fischer-Fodor, E., Berindan-Neagoe, I., Pârvu, M. (2020) The Synergistic Antitumor Effect of 5-Fluorouracil Combined with Allicin against Lung and Colorectal Carcinoma Cells. *Molecules*, 25. [10.3390/molecules25081947](https://doi.org/10.3390/molecules25081947); IF-3.060; AIS – 0.6;



3.1.3. Pârvu, M., Moș, C. A., Pârvu, A. E., Mircea, C., Stoeber, L., Roșca-Casian, O., **Țigu, A. B.** (2019). *Allium sativum* Extract Chemical Composition, Antioxidant Activity and Antifungal Effect against *Meyerozyma guilliermondii* and *Rhodotorula mucilaginosa* Causing Onychomycosis. *Molecules*, 24(21); <https://doi.org/10.3390/molecules24213958>; **IF-3.060; AIS – 0.6;**

3.1.4. #Zimta, A.A., #**Țigu, A.B.**, Muntean, M., Cenariu, D., Slaby, O., Berindan-Neagoe, I. (2019) Molecular Links between Central Obesity and Breast Cancer. *Int J Mol Sci.* 20(21); doi:10.3390/ijms20215364; **IF-4.182; AIS – 0.8;**

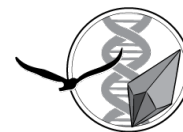
3.1.5. #Toma, V.A., #**Țigu, A.B.**, Farcaș, A.D., Sevastre, B., Taulescu, M., Gherman, A.M.R., Roman, I., Fischer-Fodor, E., Pârvu, M. (2019). New Aspects Towards a Molecular Understanding of the Allicin Immunostimulatory Mechanism via Colec12, MARCO, and SCARB1 Receptors. *Int. J. Mol. Sci.* 20; <https://doi.org/10.3390/ijms20153627>; **IF-4.182; AIS – 0.8;**

3.1.6. Braicu, C., Zanoaga, O., Zimta, A.A., **Țigu, A.B.**, Kilpatrick, K.L., Bishayee, A., Nabavi, S.M., Berindan-Neagoe, I. (2020). Natural compounds modulate the crosstalk between apoptosis- and autophagy-regulated signaling pathways: Controlling the uncontrolled expansion of tumor cells. *Seminars in Cancer Biology*, 2020, doi.org/10.1016/j.semcancer.2020.05.015; **IF-9.658; AIS – 3.3;**

3.1.7. Frishberg, A., van den Munckhof, I., Ter Horst, R., Schraa, K., Joosten, L. A., Rutten, J. H., Iancu, A. C., Dregoesc, I. M., **Țigu, B. A.**, Netea, M. G., Riksen, N. P., & Gat-Viks, I. (2021). An integrative model of cardiometabolic traits identifies two types of metabolic syndrome. *eLife*, 10, e61710. Advance online publication. <https://doi.org/10.7554/eLife.61710>; **IF-7.08; AIS – 5.6;**

3.1.8. Cenariu, D., Fischer-Fodor, E., **Țigu, A. B.**, Bunea, A., Virág, P., Perde-Schrepler, M., Toma, V. A., Mocan, A., Berindan-Neagoe, I., Pinteau, A., Crișan, G., Cenariu, M., & Maniu, A. (2021). Zeaxanthin-Rich Extract from Superfood *Lycium barbarum* Selectively Modulates the Cellular Adhesion and MAPK Signaling in Melanoma versus Normal Skin Cells In Vitro. *Molecules*, 26(2); <https://doi.org/10.3390/molecules26020333>; **IF-3.267; AIS – 0.6;**

3.1.9. Pralea, I.-E.; Moldovan, R.-C.; **Țigu, A.-B.**; Ionescu, C.; Iuga, C.-A. (2020). Mass Spectrometry-Based Omics for the Characterization of Triple-Negative Breast Cancer Bio-Signature. *J. Pers. Med.* 10, <https://doi.org/10.3390/jpm10040277>; **IF-4.433; AIS – 0.3;**



3.1.10. Desmirean, M.; Rauch, S.; Jurj, A.; Pasca, S.; Iluta, S.; Teodorescu, P.; Berce, C.; Zimta, A.-A.; Turcas, C.; **Tigu, A.-B.**; Moldovan, C.; Paris, I.; Steinheber, J.; Richlitzki, C.; Constantinescu, C.; Sigurjonsson, O.E.; Dima, D.; Petrushev, B.; Tomuleasa, C. (2020). B Cells versus T Cells in the Tumor Microenvironment of Malignant Lymphomas. Are the Lymphocytes Playing the Roles of Muhammad Ali versus George Foreman in Zaire 1974? *J. Clin. Med.* 9, <https://doi.org/10.3390/jcm9113412>; **IF-3.303**; **AIS - #**;

3.1.11. Teodorescu, P., Pasca, S., Jurj, A., Gafencu, G., Joelsson, J-P., Selicean, S., Moldovan, C., Munteanu, R., Onaciu, A., **Tigu, A.B.**, Buse, M., Zimta, A-A., Stiuftuc, R., Petrushev, B., Desmirean, M., Dima, D., Vlad, C., Bergthorsson, J.T., Berce, C., Ciurea, S., Ghiaur, G., Tomuleasa, C. (2020). Transforming growth factor β -mediated micromechanics modulates disease progression in primary myelofibrosis, 00:1-11, 10.1111/jcmm.15526; **IF-4.486**; **AIS – 1.1**;

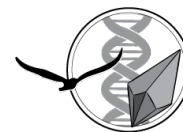
3.1.12. Andreicuț, A. D., Fischer-Fodor, E., Pârvu, A. E., **Tigu, A. B.**, Cenariu, M., Pârvu, M., Cătoi, F. A., & Irimie, A. (2019). Antitumoral and Immunomodulatory Effect of Mahonia aquifolium Extracts. *Oxidative medicine and cellular longevity*, 2019, 6439021. <https://doi.org/10.1155/2019/6439021>; **IF-4.868**; **AIS – 1.1**;

3.1.13. Boca, S., Gulei, D., Zimta, A. A., Onaciu, A., Magdo, L., **Tigu, A. B.**, Ionescu, C., Irimie, A., Buiga, R., & Berindan-Neagoe, I. (2020). Nanoscale delivery systems for microRNAs in cancer therapy. *Cellular and molecular life sciences : CMLS*, 77(6), 1059–1086. <https://doi.org/10.1007/s00018-019-03317-9>; **IF-7.014**; **AIS – 1.9**;

3.1.14. Budisan, L., Gulei, D., Jurj, A., Braicu, C., Zanoaga, O., Cojocneanu, R., Pop, L., Raduly, L., Barbat, A., Moldovan, A., Moldovan, C., **Tigu, A. B.**, Ionescu, C., Atanasov, A. G., Irimie, A., & Berindan-Neagoe, I. (2019). Inhibitory Effect of CAPE and Kaempferol in Colon Cancer Cell Lines-Possible Implications in New Therapeutic Strategies. *International journal of molecular sciences*, 20(5), 1199. <https://doi.org/10.3390/ijms20051199>; **IF-4.183**; **AIS – 0.8**;

3.1.15. Buduru SD, Gulei D, Zimta AA, **Tigu AB**, Cenariu D, Berindan-Neagoe I. (2019). The Potential of Different Origin Stem Cells in Modulating Oral Bone Regeneration Processes. *Cells*. 8(1), doi:10.3390/cells8010029; **IF-4.892**; **AIS - #**;

3.1.16. Gulei, D., Petrut, B., **Tigu, A. B.**, Onaciu, A., Fischer-Fodor, E., Atanasov, A. G., Ionescu, C., & Berindan-Neagoe, I. (2018). Exosomes at a glance - common nominators for cancer hallmarks and novel diagnosis tools. *Critical reviews in biochemistry and molecular biology*, 53(5), <https://doi.org/10.1080/10409238.2018.1508276>; **IF-5.279**; **AIS – 3.4**;



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

4.1. International:

- 4.1.1.** International Conference: Molecular Biology - Current Aspects and Prospects, held in Cluj Napoca, Romania Between the 6th -8th November 2015. Scientific event has been credited by the Romanian College of Physicians with 14 CME credits.

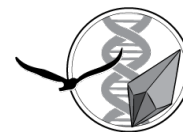
4.2. National:

- 4.2.1.** YOUNG ONCOLOGY DAYS: held in Cluj-Napoca, Romania 5th-7th July 2018, Scientific event held by the "Ion Chiricuta" Oncology Institute in Cluj-Napoca. With Poster Presentation: miRNA profile in plasma samples for investigating Colorectal carcinoma patients.
- 4.2.2.** National Congress of the Romanian Society for Cellular Biology with International Attendance and the XXXIII rd RSCB Annual Scientific Session held in Baia Mare, Romania on June 11-14, 2015

5. Projects/Grants:

5.1. Scientific projects/grants:

- 5.1.1.** Project PN-III-P1-1.2-PCCDI-2017-0737, contract number 35PCCDI/2018 – “Genomic mapping of population from polluted area with radioactivity and heavy metals to increase national security” ARTEMIS – UMFIH Cluj-Napoca– member (2018-2019)
- 5.1.2.** PCE - RECONSIDER - The Effect of Glucocorticoid Therapy on Left Ventricular Remodeling in Acute ST Elevation Myocardial Infarction - UMFIH Cluj-Napoca - Member (2018-2020)
- 5.1.3.** Project PNCDI III 2015-2020 entitled “Increasing the performance of scientific research and technology transfer in translational medicine through the formation of a new generation of young researchers” – ECHITAS, no. 29PFE/18.10.2018 – UMFIH Cluj-Napoca - member (2018-2019)
- 5.1.4.** H2020 - REPROGRAM - Targeting epigenetic REPROGRamming of innate immune cells in Atherosclerosis Management and other chronic inflammatory diseases – member – UMFIH Cluj-Napoca – Member (2017-2020).



5.1.5. Supporting a team of young researchers to create an independent research program based on the use of Sleeping Beauty protocol for the development of CAR T Cells PN-III-PI-1.1.-TE-2019-0271 – UMFIH Cluj-Napoca – member (2020-2022).

5.1.6. Selenium biofortification: can we augment Allium species anticholesterolemic properties? PN-III-P1-1.1-TE-2019-1396 – UBB Cluj-Napoca - member (2020-2022)

5.1.7. SEE Project - HE-RO-IS - strategic cooperation in hematology – UMFIH Cluj-Napoca - member (2020-2021)

5.1.8. BioGenONCO - P_40_318 - „Evaluarea acțiunii antitumorale și optimizarea compozitiei produsului Nera Plant Vito-complex” – UMFIH Cluj-Napoca - Member (2020-2021)

5.2. Projects for the community: N/A

6. Visibility (links):

6.1. Google Scholar: <https://scholar.google.com/citations?user=g8dlOfEAAAAJ&hl=ro>

6.2. ResearchGate: <https://www.researchgate.net/profile/Adrian-Bogdan-Tigu>

Date 10.03.2021

Signature