

## LISTA DE LUCRĂRI ȘTIINȚIFICE

### Titlul tezei de doctorat:

Cercetări privind efectele poluarii acvatice asupra ihtiofaunei din râurile Crisul Negru și Crisul Repede prin utilizarea unor biomarkeri structurali, ultrastructurali, imunohistochimici și moleculari.

**Conducator științific: Prof. univ.dr. Hermenean Anca 2015- 2021**

Conducator științific: Prof. univ.dr. Aurel Ardelean 2013-2015

### Articole publicate în reviste cotate ISI:

Cornel Balta, Hildegard Herman, Alina Ciceu, Bianca Mladin, Marcel Rosu, Alciona Sasu, Victor Eduard Peteu, Sorina Nicoleta Voicu, Mihaela Balas, Mihaela Gherghiceanu, Anca Dinischiotu, Neli Kinga Olah, Anca Hermenean. Phytochemical Profiling and Anti-Fibrotic Activities of the Gemmotherapy Bud Extract of *Corylus avellana* in a Model of Liver Fibrosis on Diabetic Mice, 11,6,1771, *Biomedicines*, **2023/IP 4,757**

Alexandra Cătălina Bîrcă, Cristina Chircov, Adelina Gabriela Niculescu, Herman Hildegard, Cornel Baltă, Marcel Roșu, **Bianca Mladin**, Oana Gherasim, Dan Eduard Mihaiescu, Bogdan Ștefan Vasile, Alexandru Mihai Grumezescu, Ecaterina Andronescu, Anca Oana Hermenean. H2O2-PLA-(Alg)2Ca Hydrogel Enriched in Matrigel® Promotes Diabetic Wound Healing, 15, 3,857, *Pharmaceutics*, **2023/IP 5,215**

Maria Consiglia Trotta, Hildegard Herman, Cornel Balta, Marcel Rosu, Alina Ciceu, **Bianca Mladin**, Carlo Gesualdo, Caterina Claudia Lepre, Marina Russo, Francesco Petrillo, Gorizio Pieretti, Francesca Simonelli, Settimio Rossi, Michele D'Amico, Anca Hermenean. Oral Administration of Vitamin D3 Prevents Corneal Damage in a Knock-Out Mouse Model of Sjögren's Syndrome, 11,2,616, *Biomedicines*, **2023/IP 4,757**

Alexandru Petre, Cornel Balta, Hildegard Herman, Sami Gharbia, Ada Codreanu, **Bianca Onita-Mladin**, Nicoleta Anghel-Zurbau, Andrei-Gelu Hermenean, Simona-Rebeca Ignat, Sorina Dinescu, Iuliana Urzica, Sergiu Drafta, Luminita Oancea, Anca Hermenean. A novel experimental approach to evaluate guided bone regeneration (GBR) in the rat femur using a 3D-printed CAD/CAM zirconia space-maintaining barrier. *Journal of Advanced Research*, 28, 221-229, Elsevier, **2021/2/1 IP 13.30**

Maria Consiglia Trotta, Sami Gharbia, Hildegard Herman, **Bianca Mladin**, Andrei Hermenean, Cornel Balta, Coralia Cotoraci, Victor Eduard Peteu, Carlo Gesualdo, Francesco Petrillo, Marilena Galdiero, Roberto Alfano, Mihaela Gherghiceanu, Michele D'Amico, Settimio Rossi, Anca Hermenean. Sex and Age-Related Differences in

Neuroinflammation and Apoptosis in Balb/c Mice Retina Involve Resolvin D1. *International Journal of Molecular Sciences*, 22, 12, 6280, **2021/1** **IP 6.208**

Simona Ioana Vicas, Vasile Laslo, Adrian Vasile Timar, Cornel Balta, Hildegard Herman, Alina Ciceu, Sami Gharbia, Marcel Rosu, **Bianca Mladin**, Laurentiu Chiana, József Prokisch, Maria Puschita, Eftimie Miutescu, Simona Cavalu, Coralia Cotoraci, Anca Hermenean. Nano Selenium—Enriched Probiotics as Functional Food Products against Cadmium Liver Toxicity. *Materials*, 14, 9, 2257, **2021/1** **IP 3.748**

Simona Ioana Vicas, Vasile Laslo, Adrian Vasile Timar, Cornel Balta, Hildegard Herman, Alina Ciceu, Sami Gharbia, Marcel Rosu, **Bianca Mladin**, Luminita Fritea, Simona Cavalu, Coralia Cotoraci, József Prokisch, Maria Puschita, Calin Pop, Eftimie Miutescu, Anca Hermenean. Functional Food Product Based on Nanoselenium-Enriched Lactobacillus casei against Cadmium Kidney Toxicity. *Applied Sciences*, 11, 9, 4220, **2021/1**. **IP 2.679**

**Onita (Mladin) B**, Albu P, Herman H, Balta C, Lazar V, Fulop A, Baranyai E, Harangi S, Keki S, Nagy L, Nagy N, Józsa V, Gál D, Györe K, Stan M, Hermenean A\*, Dinischiotu A. **2021**. Correlation between Heavy Metal-Induced Histopathological Changes and Trophic Interactions between Different Fish Species. *Applied Sciences*, 11, 3760. <https://doi.org/10.3390/app11093760> **IP 2.679**

Augustin M Ofiteru, Diana F Becheru, Sami Gharbia, Cornel Balta, Hildegard Herman, **Bianca Mladin**, Mariana Ionita, Anca Hermenean, Jorge S Burns. Qualifying Osteogenic Potency Assay Metrics for Human Multipotent Stromal Cells: TGF- $\beta$ 2 a Telling Eligible Biomarker. *Cells*, 9, 12, 2559. **2020/12** doi:10.3390/cells9122559 **IP 6.600**

Anca Hermenean, Georgiana Gheorghiu, Miruna Silvia Stan, Hildegard Herman, **Bianca Onita**, Doru Puiu Ardelean, Aurel Ardelean, Mihály Braun, Miklós Zsuga, Sándor Kéki, Marieta Costache, Anca Dinischiotu. Biochemical, histopathological, and molecular responses in gills of *Leuciscus cephalus* exposed to metals. *Archives of environmental contamination and toxicology*, 734, 607-618. **2017/11**. **IP 2.421**

Herman H<sup>#</sup>, **Onita B<sup>#</sup>**, Ardelean G, Ardelean DP, Craciun C, Ardelean A, Hermenean A. Ultrastructural alterations, DNA damage and activation of repair mechanism in liver and kidney of *Leuciscus Cephalus* (L.) exposed to environmental, *Fresenius Environmental Bulletin*, 5(6): 1920-1926, **2016**. **IP 0.425**

**Articole publicate în reviste de specialitate indexate BDI:**

1. Sasu A., Herman H., **Onita B.**, Onel M., Ghib-Para C., Miutescu E., Cotoraci C. **2016**. Hematological Toxicity after Epirubicin Therapy and the Influence of Silymarin on the Blood Parameters, *Jurnal Medical Aradean (Arad Medical Journal)*, Vol. XIX, issue 1, pp. 5-11

**Proceeding-uri publicate în volumele unor conferințe cotate ISI:**

1. Balta C., Herman H., Gasca I., **Onita B.**, Rosu M., Ardelean A., Hermenean A. Chrysin attenuates liver fibrosis and hepatic stellate cell activation through TGF- $\beta$  signaling pathway. *FEBS Journal*, **2015**, vol. 282, suppl. 1, 192, IF= 4.237

**PARTICIPĂRI LA CONFERINTE INTERNATIONALE**

1. Assessment of heavy metal in *Barbus barbus*, *Squalius cephalus* and *Chondrostoma nasus* species from Cris rivers basin, Romania, **Onita B.**, Albu P., Herman H., Lazar V., Baranyai E., Harangi S., Keki S., Nagy L., Nagy T., Józsa V., Dénes G., Károly G., Ardelean A., Hermenean A., 20th DKMT Euroregional Conference on Environment and Health, Arad, Romania, 7-8 September **2018** (prezentare orală)
2. Chrysin attenuates liver fibrosis and hepatic stellate cell activation through TGF- $\beta$  signaling pathway, Balta C., Herman H., Gasca I., **Onita B.**, Rosu M., Ardelean A., Hermenean A., 40th FEBS Congress – The Biochemical Basis of Life, July 4-9, **2015**, Berlin, Germany (prezentare poster)
3. Academic days the XXV<sup>th</sup> Edition Arad, May 13-17., 2015. Integrated use of histological and immunohistochemical biomarkers of different fish species for assessing pollution in Crisul Negru river, Romania, **B. Onita**, A. Ardelean, A. Hermenean (prezentare orală).
4. Integrated use of histological and ultrastructural biomarkers in *Leuciscus cephalus* (L.) for assessing heavy metal pollution in Tur river, Romania, Hermenean A., Balita A., Herman H., **Onita B.**, Ardelean A., The Central and Eastern European Conference on Health and the Environment, May 25–30, **2014**, Cluj-Napoca, Romania (prezentare poster)
5. THE ACADEMIC DAYS OF ARAD, the XXIV<sup>th</sup> Edition, 14-17 mai 2014. Comunicare orală. Histopathological biomarkers in gills, liver, kidney and gonads of fish from Crisul Negru river, Romania., **B. Onița**, A. Ardelean, "Vasile Goldis" Western University of Arad. (prezentare orală)
6. **B.M. Onita**, A. Ardelean, A. Hermenean, Integrated use of histological and immunohistochemical biomarkers of different fish species for assessing pollution in Crisul Negru river, Romania, Casee

Conference "Last trends in Bioeconomy in Danube region", Slovak University of Agriculture in Nitra, Slovak Republic, May 24-26., 2015 (prezentare orală)

7. Eurotox 2015 Porto-Portugal 51<sup>st</sup> Congress of the European Societies of Toxicology. The impact of trace metals on wild fish living in Crisul Negru river from North-Western Romania: bioaccumulation and histopathological biomarkers, Paul Albu, **Bianca Onita**, Edina Baranyai, Sándor Harangi, Sándor Keki, Lajos Nagy, Tibor Nagy, Józsa Vilmos, Gal Dénes, Győre Károly, Dorina Ardelean, Aurel Ardelean, Anca Hermenean (prezentare poster)

## **2. PARTICIPĂRI LA CONFERINTE NAȚIONALE**

1. Alexandra Balita, Hildegard Herman, **Bianca Onita**, Aurel Ardelean, Integrated use of histological and ultrastructural biomarkers in *Leuciscus cephalus* (L.) for assessing heavy metal pollution in Tur River, Romania, Anca Hermenean, The Central and Eastern European Conference on Health and the Environment, May 25–30, 2014, Cluj-Napoca, Romania (prezentare poster)
2. Am participat la AL 7-LEA CONGRES NAȚIONAL CU PARTICIPARE INTERNAȚIONALĂ ȘI A 33-A SESIUNE ȘTIINȚIFICĂ ANUALĂ A SOCIETĂȚII ROMÂNE DE BIOLOGIE CELULARĂ 11-14 Iunie, 2015, BAIA MARE, BIOACCUMULATION AND HISTOPATHOLOGICAL BIOMARKERS ON WILD FISH LIVING IN CRISUL-NEGRU RIVER FROM NORTH-WESTERN ROMANIA AS A RESULT OF THE IMPACT OF TRACE METALS, având ca autori: Paul Albu, **Bianca Onita**, Edina Baranyai, Sándor Harangi, Sándor Keki, Lajos Nagy, Tibor Nagy, Józsa Vilmos, Gál Dénes, Győre Károly, Dorina Ardelean, Aurel Ardelean, Anca Hermenean (prezentare orală)

## **3. BREVETE DE INVENTIE**

Patent national OSIM, Romania – aplicația nr. A/00327, 14.06.2022

“Nanosistem supramolecular "drug delivery" de livrare a flavonoidelor pe bază de derivat de calix[4]arene (OTX008) și sulfobutylether-β-cyclodextrin (SBECD) și procedeu de obținere”  
Publicat RO-BOPI 10/2022 din 28.10.2022

2. Patent national OSIM, Romania – aplicația nr. A/00328, 14.06.2022

“Compoziție fitoterapeutică pe bază de extract gemoterapic de *Corylus avellana* îmbogățit cu nanocomplexe de crisină/ciclodextrine destinat fibrozei hepatice în diabetul zaharat și metodă de obținere a acestuia” Publicat RO-BOPI 10/2022 din 28.10.2022

Data

18.12.2023

Semnătura

CSIII Dr. Mladin Bianca Maria