

LISTA DE LUCRĂRI ȘTIINȚIFICE
Șef Lucr. Dr. BERȚA LAVINIA-ANDA

a) Teza de doctorat:

Titlul: NOI COMPLEXȘI CU ACTIVITATE BIOLOGICĂ OBȚINUȚI PRIN COORDINAREA UNOR CATIONI DE PALTINĂ ȘI PALADIU LA COMPUȘI POLIOXOWOLFRAMICI LACUNARI

Anul susținerii: 2014

Conducător științific: Prof. Dr. Daniela-Lucia Muntean

Instituția eliberatoare a diplomei de doctor: Universitatea de Medicină și Farmacie Tîrgu Mureș

Calificativ și distincție: bine,

Diploma de doctor eliberată de MEN prin ordinul MEN nr. 3181/06.02.2015

b) Cărți de specialitate:

După ultima promovare

1. **Berța L**, Kelemen H, Grama A. *Sănătate publică – noțiuni generale*. Editura University Press, 2021, pg 120, ISBN 978-973-169-705-5, cod CNCSIS 210.

Înainte de ultima promovare

1. Curticăpean A, **Grama L**, Boda F. *Aplicații practice de laborator – Chimie bioanorganică*. Editura University Press Tîrgu Mureș, 2015, 120 pg, ISBN 978-973-169-345-3, cod CNCSIS 210.

c) Capitole în volume colective -

d) Articole publicate in extenso:

(1) Articole publicate in extenso în reviste ISI Thomson Reuters, cu factor de impact

După ultima promovare:

Autor principal

1. **Lavinia Berta**, Nastaca-Alina Coman, Aura Rusu, Corneliu Tanase. *A Review on Plant-Mediated Synthesis of Bimetallic Nanoparticles, Characterisation and Their Biological Applications*. Materials 2021; 4:7677 (<https://doi.org/10.3390/ma14247677>) **IF=3,748** - prim autor
2. Corneliu Tanase†, **Lavinia Berta†**, Anca Mare, Adrian Man, Adina Iulia Talmaciu, Ioana Roșca, Eleonora Mircia, Irina Volf, Valentin I. Popa († these authors contributed equally to this work.). *Biosynthesis of silver nanoparticles using aqueous bark extract of Picea*

- abies L. and their antibacterial activity*. Eur. J. Wood Prod. 2020; 78:281-291 (DOI: 10.1007/s00107-020-01502-3), **IF=2,014** – prim autor
3. Tanase Corneliu†, **Lavinia Berta†**, Năstaca Alina Coman, Ioana Roșca, Adrian Man, Felicia Toma, Alexandru Nicolescu, Andrei Mocan, László Jakab-Farkas, Domokos Biró, Anca Mare († these authors share the first authorship). *Antibacterial and Antioxidant Potential of Silver Nanoparticles Biosynthesized Using the Spruce Bark Extract*. Nanomaterials 2019; 9:1541 (DOI:10.3390/nano9111541), **IF=4,324** (Q1) – prim autor
 4. Tanase Corneliu†, **Lavinia Berta†**, Năstaca Alina Coman, Ioana Roșca, Adrian Man, Felicia Toma, Andrei Mocan, László Jakab-Farkas, Domokos Biró, Anca Mare († these authors share the first authorship). *Investigation of In-Vitro antioxidant and antibacterial potential of silver nanoparticles obtained by biosynthesis using beech bark extract*. Antioxidants (Basel) 2019; 8(10):459 (DOI:org/10.3390/antiox8100459), **IF=5,014** (Q1) – prim autor
 5. Burlacu E., Tanase C., Coman N-A., **Berta L.** *A review of bark-extract-mediated green synthesis of metallic nanoparticles and their applications*. Molecules 2019; 24:4354 (DOI:10.3390/molecules24234354), **IF=3,267** (Q2) – ultim autor
 6. Francisc Boda, Krisztina Banfai, Kitti Garai, Augustin Curticeanu, **Lavinia Berta***, Emese Sipos, Krisztian Kvell. *Effect Of Vipera Ammodytes Ammodytes Snake Venom On The Human Cytokine Network*. Toxins 2018; 10(7):259 (DOI:10.3390/toxins10070259), **IF=3,895** – autor corespondent ([articol echivalat cu 5 articole BDI](#))
 7. **Lavinia Berța (Gramă)**, Francisc Boda, Gheorghe Borodi, Aura Rusu, Hajnal Kelemen, Adrian Man, Anca Mare, Șerban-Andrei Gâz-Florea. *Two New Sandwich-Type Compounds Based On {AsW₃} With Pd²⁺ And Pt⁴⁺ Cations – Synthesis, Characterization And Antibacterial Activity*. Farmacia 2017; 65(1):63-68, **IF=1,507** – prim autor
 8. Man Adrian, Gaz Florea Serban Andrei, Mare Anca Delia, **Berta Lavinia**. *Effects Of Low-Molecular Weight Alcohols On Bacterial Viability*. Rev Romana Med Lab 2017; 25(4):335-343, **IF=0,400** – ultim autor

Coautor

1. Anca Delia Mare, Cristina Nicoleta Ciurea*, Adrian Man, Mihai Mares, Felicia Toma, **Lavinia Berta**, Corneliu Tanase. *In Vitro Antifungal Activity of Silver Nanoparticles Biosynthesized with Beech Bark Extract*. Plants, 2021; 10(10):2153 (DOI: 10.3390/plants10102153) ISSN: 2223-7747. **IF=4,658** (Q1) ([articol echivalat cu 5 articole BDI](#))
2. Anca Delia Mare, Adrian Man, Cristina Nicoleta Ciurea*, Felicia Toma, Anca Cighir, Mihai Mares, **Lavinia Berta**, Corneliu Tanase. *Silver Nanoparticles Biosynthesized with Spruce Bark Extract—A Molecular Aggregate with Antifungal Activity against Candida*

Species. Antibiotics, 2021;10:1261 (DOI: 10.3390/antibiotics10101261) ISSN: 2079-6382. **IF=5,222** (Q1)

3. Francisc Andrei Boda, Anca Mare*, Zoltán István Szabó, **Lavinia Berta**, Augustin Curticăpean, Maria Dogaru, Adrian Man. *Antibacterial Activity Of Selected Snake Venoms On Pathogenic Bacterial Strains*. Revista Română de Medicină de Laborator 2019; 27(3):305-317 (DOI:10.2478/rrml-2019-0015) ISSN: 1841-6624. **IF=0,945**
4. Francisc-Andrei Boda, Salamon Pál, Csongor Orbán, **Lavinia Berta**, Augustin Curticăpean, Șerban-Andrei Gâz*, Maria Dogaru. *Heterologous Expression And Purification Of Recombinant Crotoxin B, The Phospholipase A2 Subunit Of Crotoxin*. Studia UBB chemia, LXIII, 1, 2018:7-20 (DOI:10.24193/subbchem.2018.1.01) ISSN: 1224-7154. **IF=0,275**
5. Rusu Aura, Hancu Gabriel*, **Berta Lavinia**, Vari Camil. *Determination Of Letrozole, Anastrozole And Exemestane By Capillary Zone Electrophoresis*. Studia UBB Chemia, LXII, 3, 2017:251-264 (DOI: 10.24193/subbchem.2017.3.21) ISSN: 1224-7154. **IF=0,305**
6. Hajnal Kelemen, Angella Csillag, Gabriel Hancu*, Blanka Székely Szentmiklósi, Ibolya Fülöp, Erzsébet Varga, **Lavinia Grama**, Gábor Orgován. *Characterisation Of Inclusion Complexes Between Bifonazole And Different Cyclodextrins In Solid And Solution State*. Macedonian Journal of Chemistry and Chemical Engineering 2017;36(1):81-91 (DOI: 10.20450/mjcce.2017.1031) ISSN: 1857-5552. **IF=0,391**

Înainte de ultima promovare

Autor principal

1. **Grama Lavinia**, Man A., Muntean Daniela-Lucia, Florea Gâz Ș.A., Boda F., Curticăpean A. *Antibacterial Activity of Some Saturated Polyoxotungstates*. Revista Română de Medicină de Laborator, 2014, 22(1):111-118 (DOI: 10.2478/rrlm-2014-0007), ISSN 1841-6624; ISSN online 2284-5623, **FI:0,239** – prim autor

Factor impact cumulat autor principal – decembrie 2022 - **24,408**

Total articole publicate in extenso în reviste ISI cu factor de impact = 15 (9 în calitate de autor principal, 6 prim autor)

(2) Articole in extenso în reviste indexate în baze de date internaționale (BDI)

După ultima promovare

Autor principal

1. Anca Delia Mare, Adrian Man, Felicia Toma, Bianca Tudor, **Lavinia Berța***, Corneliu Tanase, Cristina Nicoleta Ciurea. *The antibacterial potential of biosynthesized silver nanoparticles using beech bark and spruce bark extracts*. Acta Marisiensis - Seria Medica 2022;68(1):17-23 (DOI: 10.2478/amma-2021-0043) (<https://actamedicamarisiensis.ro/wp-content/uploads/2021/11/amma-2021-0043.pdf>) - autor corespondent
2. **Lavinia Berta**, Andrei Gâz, Francisc Boda, Augustin Curticăpean. *Silver Cation Coordination Study to AsW₉ Ligand – A Trilacunar Arsenotungstate Compound*. Acta Medica Marisiensis 2017;63(2):70-72 (DOI: 10.1515/amma-2017-0018) (<https://actamedicamarisiensis.ro/wp-content/uploads/2017/06/amma-2017-0018.pdf>) - prim autor
3. Șerban Andrei Gâz-Florea, Eleonora Mircia, **Lavinia Berța (Grama)**. *Precursor Synthesis of Some New Macrocyclic Compounds*. Acta Medica Marisiensis 2017;63(1):27-30 (DOI: 10.1515/amma-2017-0005) (<https://actamedicamarisiensis.ro/wp-content/uploads/2017/01/amma-2017-0005.pdf>) - ultim autor

Înainte de ultima promovare

Autor principal

1. **Grama Lavinia**, Boda F., Curticăpean A., Muntean Daniela-Lucia. *The UV and IR Comparative Spectrophotometric Study of Some Saturated and Lacunary Polyoxometalates*. Acta Medica Marisiensis, 2014, 60(3):84-88 (ISSN 2068-3324) (<http://www.ebscohost.com/titleLists/tnh-coverage.html>)
2. **Grama Lavinia**, Muntean Daniela-Lucia, Curticăpean A. *Unsaturated Heteropolyoxotungstates with Platinum Cation Complexation*. Acta Medica Marisiensis, 2014, 60(2):34-36 (ISSN 2068-3324) (<http://www.ebscohost.com/titleLists/tnh-coverage.html>)

Coautor

1. Rusu Aura, Popescu Gabriel-Cosmin, Imre Silvia, Ion Valentin, Vancea Szende, **Grama Anda-Lavinia**, Kelemen Hajnal, Hancu Gabriel. *A New Silver Complex with Ofloxacin – Preliminary Study*. Acta Medica Marisiensis, 2016; 62(2):192-198 (DOI: 10.1515/amma-2015-0091) (<http://www.ebscohost.com/titleLists/tnh-coverage.html>)

2. Gâz Florea Șerban Andrei, Ciurca Diana, Mare Anca, Man Adrian, Bogdan Cordoș, **Anda-Lavinia Grama**, Daniela-Lucia Muntean. *New RP-HPLC method for separation of Naja haje haje venom and studies of its bactericidal effect*. Acta Medica Marisiensis, 2016; 62(1):90-94 (DOI: 10.1515/amma-2015-0113) (<http://www.ebscohost.com/titleLists/tnh-coverage.html>)

Total articole publicate in extenso în reviste indexate în baze de date internaționale (BDI)=7
(5 în calitate de autor principal, 2 coautor)

e) Articole publicate în rezumat în reviste și volumele unor manifestări științifice, cu ISBN sau ISSN

După ultima promovare

Prim autor

1. **Lavinia Berța**, Ș.A. Gâz-Florea, Boda Francisc, Anca Mare, Adrian Man, Augustin Curticăpean. *Na₁₉[NaAs₄W₄₀O₁₄₀Pd₄]*xH₂O a novel polyoxotungstate complex, synthesis and possible biological applications*. Journal of Clinical & Experimental Pharmacology, October 2018, Volume 8:53 (ISSN: 2161-1459) (18th International Conference on Medicinal and Pharmaceutical Chemistry, October 18-19, 2018 Dubai, UAE)
2. **Berța Lavinia**, Ruță Florina, Curticăpean Augustin. Is It Possible a Nickel-Free Diet?. Acta Medica Marisiensis 2018; 64(2):5 (ISSN: 2068-3324) – The 5th National Conference on Nutrition and Dietetics, 4-5 mai 2018
3. **Lavinia Berța (Grama)**, F. Boda, A. Cioloca, Ș.A. Gâz Florea, Anca Mare, A.Man, A.Curticăpean. *Antifungal activity of Na₈[HAsW₉O₃₃]*17H₂O and Na₆[(AsW₉O₃₃)₂Pt₃]*46H₂O, Na₁₂[(AsW₉O₃₃)₂Pd₃]*24H₂O complexes*, Volum de rezumate CNFR 2016 București, UMF "Carol Davila" București ISSN 2537–2823, ISSN-L 2537-2823, pg.79

Coautor

1. Anca Delia Mare, Cristina Nicoleta Ciurea, Adrian Man, Felicia Toma, Bianca Tudor, Mihai Mareș, **Lavinia Berța**, Corneliu Tanase. *The Antimicrobial Potential Of "Green" Synthetized Silver Nanoparticles Using Beech Bark And Spruce Bark Extracts*. Scientific Session of University Academic Staff Medicine and Pharmacy 2021; Book of Abstracts nr.4/2021, pg.37(ISSN 2602-1609)
2. Rosca Ioana, Tanase Corneliu, **Berta Lavinia**. *Biosynthesis Of Silver Nanoparticles Using Aqueous Extracts Obtained From Picea Abies L. And Fagus Sylvatica L. Bark*. Acta Medica Marisiensis 2019; 65(1):56 (ISSN 2068-3324) – International Congress For Students, Young Doctors And Pharmacists MARISIENSIS

3. Redai Eموke, **Berta Lavinia**, Ciurba Adriana, Antonoaea Paula, Birsan Magdalena, Todoran Nicoleta, Rusu Aura. *Compatibility Study Of Adapalene With Hydrophilic Cellulose Polymers*. Scientific Session Of University Academic Staff, Days Of The University Of Medicine, Pharmacy, Science And Technology Of Țirgu Mureș 2018; Book of Abstracts nr.1/2018, pg.98 (ISSN 2602-1609)
4. Boda FA , Man A , Mare Anca , **Berta Lavinia**, Curticapean A, Dogaru Maria Titica. *Preliminary Study On The Antibacterial Activity Of Lyophilised Vipera Ammodytes Ammodytes Snake Venom*, Acta Medica Marisiensis, 2017, 63(4):89 (ISSN 2068-3324)
5. Gâz Florea Șerban Andrei, Mircia Eleonora, **Berța Lavinia**. *Design, Sybthesis and Structural Analysis of Some Spirans with Polyethylene Glycol Arms*. Acta Medica Marisiensis, 2016, 62(8):82 ((ISSN 2068-3324)

Înainte de ultima promovare

Prim autor

1. **Lavinia Grama**, Francisc Boda, Augustin Curticăpean. *Synthesis and Characterization of $Na_{27}[NaAs_4W_{40}O_{140}] \cdot xH_2O$ Cryptand - Precursor of Complexes with Biological Activity*. Acta Medica Marisiensis, 2015, 61(5):27 (ISSN 2068-3324) (The 15th International Symposium and Summer School on Bioanalysis, Țirgu Mureș, Romania, 13-18 July, 2015, CEEPUS Network CIII-RO-0010)
(<http://www.ebscohost.com/titleLists/tnh-coverage.html>)
2. **Grama Lavinia**, Muntean Daniela-Lucia, Curticăpean A. *Coordination Study of Platinum Cation to Lacunary Polyoxometalates*. Acta Medica Marisiensis, 57, supl.4, 2011:73
(<http://www.ebscohost.com/titleLists/tnh-coverage.html>)
3. **Lavinia Grama**, Daniela Muntean, Augustin Curticăpean. *Polyoxometalates – Inorganic Coordination Compounds – and Their Biological Applications*. Acta Medica Marisiensis, 56, supl.3, 2010:87
(<http://www.ebscohost.com/titleLists/tnh-coverage.html>)
4. **Lavinia Grama**, Augustin Curticăpean. *Metal-Oxygen Clusters as Coordinative Ligands for Platinic Cations. Physico-Chemical Characterization and Their Biological Applications*. Acta Medica Marisiensis, 56, supl.2, 2010:4
(<http://www.ebscohost.com/titleLists/tnh-coverage.html>)

Coautor

1. Aura Rusu, G.C. Popescu, Silvia Imre, V. Ion, G. Hancu, Hajnal Kelemen, **Lavinia Grama**. *Preliminary Study in Achieving a Silver Complex with Ofloxacin*. Volum de rezumate CNFR 2014 septembrie 24-27 Iași, ed. Gr.T. Popa, UMF Iași, 2014 (ISBN 978-606-544-252-8)

Total articole publicate în rezumat în reviste și volumele unor manifestări științifice, cu ISBN sau ISSN=13 (7 ca prim autor)

f) Alte lucrări și contribuții științifice:

(1) Articole publicate în rezumat în reviste și volumele unor manifestări științifice, fără ISBN sau ISSN

După ultima promovare

Prim autor

1. **L. Berta**, A. Mare, A. Curticapean. *Synthesis, Characterization and Antibacterial Activity of Novel Pt^{4+} Complex with $Na_{27}[NaAs_4W_{40}O_{140}]\cdot xH_2O$, a Polyoxotungstate Cryptand*. ChemCys 2018 Belgia – Book of Abstracts, pg.92

Înainte de ultima promovare

Coautor

1. Ciurba Adriana, **Grama Lavinia**, Lobonț Bianca, Redai Eموke, Todoran Nicoleta. *Formulation, Preparation and Characterization of Roxitromicin Tablets*. Volum de rezumate CNFR 2006 Cluj-Napoca.

(2) Lucrări premiate/Premii

- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2021: *In Vitro Antifungal Activity of Silver Nanoparticles Biosynthesized with Beech Bark Extract*. Anca Delia Mare, Cristina Nicoleta Ciurea*, Adrian Man, Mihai Mares, Felicia Toma, **Lavinia Berta**, Corneliu Tanase. Plants, 2021; 10(10):2153 (DOI: 10.3390/plants10102153) ISSN: 2223-7747. IF=4,658 (Q1) – **PN-III-P1-1.1-PRECISI-2021-67320**
- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2021: *Silver Nanoparticles Biosynthesized with Spruce Bark Extract—A Molecular Aggregate with Antifungal Activity against Candida Species*. Anca Delia Mare, Adrian Man, Cristina Nicoleta Ciurea*, Felicia Toma, Anca Cighir, Mihai Mares, **Lavinia Berta**, Corneliu Tanase. Antibiotics, 2021;10:1261 (DOI: 10.3390/antibiotics10101261) ISSN: 2079-6382. IF=5,222 (Q1) – **PN-III-P1-1.1-PRECISI-2021-67323**
- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2020: *Biosynthesis of silver nanoparticles using aqueous bark extract of Picea abies L. and their antibacterial activity*. Corneliu Tanase†, **Lavinia Berta†**, Anca Mare, Adrian Man, Adina Iulia Talmaciu, Ioana Roșca, Eleonora Mircia, Irina Volf, Valentin I. Popa († these

authors contributed equally to this work.). Eur. J. Wood Prod. 2020; 78:281-291 (DOI: 10.1007/s00107-020-01502-3), IF=2,014 – **PN-III-P1-1.1-PRECISI-2020-43517**

- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2020: *Antibacterial and Antioxidant Potential of Silver Nanoparticles Biosynthesized Using the Spruce Bark Extract*. Tanase Corneliu†, **Lavinia Berta†**, Năstaca Alina Coman, Ioana Roșca, Adrian Man, Felicia Toma, Alexandru Nicolescu, Andrei Mocan, László Jakab-Farkas, Domokos Biró, Anca Mare († these authors share the first authorship). Nanomaterials 2019; 9:1541 (DOI:10.3390/nano9111541), IF=4,324 (Q1) – **PN-III-P1-1.1-PRECISI-2020-44509**
- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2020: *Investigation of In-Vitro antioxidant and antibacterial potential of silver nanoparticles obtained by biosynthesis using beech bark extract*. Tanase Corneliu†, **Lavinia Berta†**, Năstaca Alina Coman, Ioana Roșca, Adrian Man, Felicia Toma, Andrei Mocan, László Jakab-Farkas, Domokos Biró, Anca Mare († these authors share the first authorship). Antioxidants (Basel) 2019; 8(10):459 (DOI:org/10.3390/antiox8100459), IF=5,014 (Q1) – **PN-III-P1-1.1-PRECISI-2020-44177**
- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2020: *A review of bark-extract-mediated green synthesis of metallic nanoparticles and their applications*. Burlacu E., Tanase C., Coman N-A., **Berta L.** Molecules 2019; 24:4354 (DOI:10.3390/molecules24234354), IF=3,267 (Q2) – **PN-III-P1-1.1-PRECISI-2020-41016**
- UEFISCDI - PREMIEREA REZULTATELOR CERCETĂRII - Articole, Anul 2018: *Effect Of Vipera Ammodytes Ammodytes Snake Venom On The Human Cytokine Network*. Francisc Boda, Krisztina Banfai, Kitti Garai, Augustin Curticapean, **Lavinia Berta***, Emese Sipos, Krisztian Kvell. Toxins 2018; 10(7):259 (DOI:10.3390/toxins10070259), IF=3,895 – **PN-III-P1-1.1-PRECISI-2018-27078**

Târgu Mureș
23 ianuarie 2023

Șef Lucr. Dr. Berța Lavinia-Anda,