



Alina Florentina Vladu

● EXPERIENȚA PROFESIONALĂ

INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU TEXTILE SI PIELARIE – BUCURESTI, ROMÂNIA
CERCETATOR STIINTIFIC GRAD III – 18/04/2024 – ÎN CURS

INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU TEXTILE SI PIELARIE – BUCURESTI, ROMÂNIA
RESPONSABIL PROGRAM DE COMPARARI INTERLABORATOARE – 04/2023 – ÎN CURS

INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU TEXTILE SI PIELARIE – BUCURESTI, ROMÂNIA
CERCETATOR STIINTIFIC – 05/2022 – 18/04/2024

INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU TEXTILE SI PIELARIE – BUCURESTI, ROMÂNIA
ASISTENT DE CERCETARE – 09/2020 – 05/2022

INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU TEXTILE SI PIELARIE – BUCURESTI, ROMÂNIA
INGINER STIINTA MATERIALELOR – 15/05/2019 – 16/09/2020

INSTITUTUL DE CERCETARE PIELARIE INCALTAMINTE, DEPARTAMENTUL DE COLAGEN – BUCURESTI, ROMÂNIA
STAGIU DE PRACTICA – 01/07/2017 – 01/09/2017

- Obținerea bioproduselor pe baza de colagen pentru regenerarea tesuturilor
- Caracterizarea si testarea bioproduselor obtinute

● EDUCAȚIE ȘI FORMARE PROFESIONALĂ

01/10/2020 – ÎN CURS Bucharest, România
DIPLOMA DE DOCTOR Facultatea de Inginerie Chimica si Biotehnologii, UNSTPB

01/10/2018 – 06/2020 Bucharest, România
DIPLOMA DE MASTER Facultatea de Inginerie in Limbi Straine, UPB

Discipline studiate:

- Cell and Tissue Biology
- Stem Cells and Regenerative Medicine
- Molecular and Cellular Engineering
- Advanced Techniques for Characterization of Bioactive Substances
- Mechanisms of Tissue Regeneration and Remodeling
- Experimental Models for Tissue Regeneration

01/10/2014 – 06/2018 Bucharest, România
DIPLOMA DE LICENTA Facultatea de Inginerie Medicala, UPB

Discipline studiate:

- Biofizica
- Biochimie
- Genetica
- Biologie celular si moleculara
- Fiziologie si patologie
- Genomica
- Proteomica

- Procese la interfata biomaterial-tesut
- Interactiunea nanoparticulelor cu tesuturile vii
- Sisteme de eliberare controlata a substantelor bioactive
- Testarea implanturilor *in vitro* și *in vivo*

2010 – 2014 Găești, România

DIPLOMA DE BACALAUREAT Colegiul National Vladimir Streinu

Domeniu de studiu Matematica informatica

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **ROMÂNĂ**

Altă limbă (Alte limbi):

	COMPREHENSIUNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Exprimare scrisă	Conversație	
ENGLEZĂ	C1	C1	C1	C1	C1
GERMANĂ	B1	B1	B1	A2	B2

Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat

PUBLICAȚII

2019

Gratiela Gradisteanu Pircalabioru, Bianca Tihauan, Madalina Axinie, Ana Ivanof, Stelian Sergiu Maier, Carmen Mihai, Alina Vladu. Nanofiber meshes for abdominal hernia repair – challenges and opportunities. TEXTEH 9 Proceedings

2019

Madalina Axinie (Bucos), Bianca Tihauan, Ana Ivanof, Gratiela Gradisteanu Pircalabioru, Emilia Visileanu, Samet Aydin, Carmen Mihai, Razvan Scarlat, Alina Vladu. Development and preliminary characterization of novel textiles for abdominal hernia repair. Romanian Biotechnological Letters, Volume 24, No.6

2019

Corina Dana Dumitru, Alina Florentina Vladu. Chapter V. The artificial kidney – how to overcome end-stage renal diseases. Organ Bioengineering. Chircov Cristina, Haddad Antonia Nancy, Alina Florentina Vladu (eds). Lambert Academic Publishing

2020

Corina Dana Dumitru, Alina Florentina Vladu. Chapter VI. Tissue engineering for cancer research. Tissue Engineering. Inovations regarding cells, biomaterials and manufacturing techniques. Daniela Alina Ionita, Andra Maria Sirmon, Maria Elena Zarif (eds). Lambert Academic Publishing

2020

Alina F. Vladu, Stefania Marin, Ionela A. Neacsu, Roxana D. Trusca, Madalina G. Albu Kaya, Durmus A. Kaya, Ana-Maria Popa, Catalina Poiana, Ioan Cristescu, Cristina Orlov, Denisa Fikai, Anton Fikai, Denisa I. Udreanu, Bruno Stefan Velescu, Taxiarchis Konstantions Nikolouzakakis, Leonid Gurevich, Andrey N. Kuskov, Cornelia Nitipir. Spongyous Fillers based on collagen-hydroxyapatite-eugenol acetate with therapeutic potential in bone cancer. Farmacia Nr.2

2020

Visileanu Emila, Scarlat Razvan, Mitu Bogdana, Vladu Alina. Plasma treatments to boost the biocompatibility of the textile medical devices (2020). Kalra J., Lightner N. (eds) Advances in Human Factors and Ergonomics in Healthcare and Medical Devices. AHFE 2020. Advances in Intelligent Systems and Computing, col. 1205. Springer, Cham

2020

Emilia Visileanu, Laura Chiriac, Maria Memecică, Razvan Scarlat, Alina Vladu. Functionalization of textile medical devices for hernia repair. International Journal of Current Research. DOI: <https://doi.org/10.24941/ijcr.39959.11.2020>

2021

Mihai Carmen, Ene Alexandra Gabriela, Radu-Gabriel Hertzog, Diana Popescu, Vladu Alina Florentina. Predictive mathematical model for absorbant substrate achievement, through electrospinning process. Revista Industria textila

2022

Alina Florentina Vladu, Denisa Fica, Alexandra Gabriela Ene, Anton Fica, "Combination Therapy Using Polyphenols: An Efficient Way to Improve Antitumoral Activity and Reduce Resistance", Int. J. Mol. Sci. 2022, 23(18), 10244; <https://doi.org/10.3390/ijms231810244>

2022

Alexandra Gabriela Ene, Carmen Mihai, Emilia Visileanu, Alina Florentina Vladu, Radu-Gabriel Hertog, Diana Popescu, "Descriptive statistic for plane structures of the multilayer matrix for tissue haemostasis and regeneration", Industria Textila, ISSN 1222-5347, Vol 73, nr. 4 /2022 pg. 447-453

2022

JOMIR Mihaela, SALISTEAN Adrian, BADEA Ionela, VLADU Alina, "Flexible panel assembly techniques used in the construction of aerodynamic decelerator", Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol.23(1), pp.25-30, 2022

2022

Emilia Visileanu, Alexandra Ene, Razvan Scarlat, Alina Vladu, Stelian Sergiu Maier, "Textile structures with anti-inflammatory properties for the treatment of burn injuries", Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol.23(2), pp.81-86, 2022

2022

Emilia Visileanu, Alexandra Ene, Stelian Sergiu Maier, Diana Popescu, Alina Vladu, "Functionalized multilayer structures for burns treatment", Proceedings of the AHFE International Conference, 24-28.07.2022, Vol. 66, 2022, pag.40-48, <https://doi.org/10.54941/ahfe1002686>

2023

Visileanu, E., Ene, A., Mihai, C., Vladu, A., Textile structures for the treatment of burn wounds – characterization of elastic and antibacterial properties, Industria Textila, 2023, 74, 2, 246–255, <http://doi.org/10.35530/IT.074.02.2022108>

2023

A.F. Vladu, E. Visileanu, R.N. Albulescu, A. Albulescu, Evaluation of Skin Irritation Potential of Airborne Particles, Proceedings of the 11th International Conference TEXTEH, DOI: 10.2478/9788367405386-029, P: 207-212

2023

Carmen Mihai; Alina Vladu; Alexandra Ene, Dataset Analysis of Flexible Composites Pannels for Agricultural Air Cargo Transport Scenario, Proceedings of 10th SWS International Scientific Conference on Social Sciences - ISCSSL 2023, Vol. 10, Issue 1, Page: 897-904, 2023, DOI: 10.35603/sws.iscsl.2023/sv15.24

2023

Alina Vladu, Emilia Visileanu, Alina Popescu, Roxana Rodica Constantinescu, Antimicrobial treatments of undergarments designed for the combat-protective clothing of soldiers, Artificial Intelligence, Social Computing and Wearable Technologies, Vol. 113, 2023, 373–382 <https://doi.org/10.54941/ahfe1004210>

2023

Carmen Mihai, Alina Florentina Vladu, Alexandra Gabriela Ene, Laurentiu Dinca, Data set analysis of the composite materials with thin profile using descriptive statistics, Proceedings of 23rd International Multidisciplinary Scientific GeoConference SGEM 2023, Vol. 23, Issue 4.2, 2023, ISSN 1314-2704, 10.5593/sgem2023V/4.2/s19.21

2024

Bogdan-Mircea Maciuceanu-Zarnescu, Mihai Pana, Alexandru Scafa-Udriste, Sabina Grama, Alexandra Gabriela Ene, Ana Chimirel, Alina Florentina Vladu, Alexandru Chiotoroiu, Application of negative wound pressure therapy to skin grafts after coverage of uncertain granular sites: a case series, Industria Textila, 2024, Vol. 75, Issue 3, 381–386, 10.35530/IT.075.03.202449

2024

Ovidiu Iordache, Bogdan Cazan, Elena Perdum, Alina-Florentina Vladu, Marian Catalin Grosu, Laurentiu Dinca, Alexandra Gabriela Ene. Data evaluation for identifying meaningful engineering characteristics of the flexible panels used for aerial module for pedological drought. Revista Industria Textila. ISSN 1222-5347, Vol 75, nr. 5 /2024 pg. 577-583

2024

A.F. Vladu, E. Visileanu, A. G. Ene (2024). Designing Electrical Circuits on Textiles Through the Sputtering Method, Proceedings of the 50th Textile Research Symposium, Springer, Singapore, ISBN 978-981-97-4422-0, p. 235-243

2025

Vladu, A.F.; Albu Kaya, M.G.; Trușcă, R.D.; Motelică, L.; Surdu, V.-A.; Oprea, O.C.; Constantinescu, R.R.; Cazan, B.; Ficai, D.; Andronescu, E. The Role of Crosslinking Agents in the Development of Collagen-Hydroxyapatite Composite Materials for Bone Tissue Engineering. Materials 2025, 18, 998

2025

Vladu, A.F.; Motelică, L.; Oprea, O.C; Trușcă, R.D.; Iordache, F.; Ficai, D.; Ficai, A. Chitosan/ Hydroxyapatite composite grafts for bone tissue engineering. U.P.B. Sci. Bull., Series B. 2025, Series B, Vol. 87, Iss. 3

2025

Vladu, A.F.; Albu Kaya, M.G.; Ficai, A.; Ficai, D.; Tutuianu, R.; Motelica, L.; Surdu, V.A.; Oprea, O.-C.; Trușcă, R.D.; Titorencu, I. Localized Combination Therapy Using Collagen-Hydroxyapatite Bone Grafts for Simultaneous Bone Cancer Inhibition and Tissue Regeneration. Polymers 2025, 17, 2239

2025

Visileanu, E.; Altmann, K.; Stepa, R.; Haiducu, M.; Miclea, P.T.; Vladu, A.; Dondea, F.; Grosu, M.C.; Scarlat, R. Comparative Analysis of Airborne Particle Concentrations in Textile Industry Environments Throughout the Workday. Microplastics 2025, 4, 34

● CONFERINȚE ȘI SEMINARE

21/10/2019 – 22/10/2019 Bangkok, Thailanda

International Conference on Textile Engineering

Paper: Requirements of textile medical device for parietal defects

24/10/2019 – 26/10/2019 București, România

International Conference Tex Teh 9

Paper: Nanofiber meshes for abdominal hernia repair – challenges and oportunities

16/07/2020 – 20/07/2020 Virtual Conference

11th International Conference on Applied Human Factors and Ergonomics (AHFE2020)

Paper: Plasma treatments to boost the biocompatibility of textile medical devices

17/05/2021 – 19/05/2021 Virtual Conference

5th International Conference on Natural Fibers – Materials of the Future

Paper: Composites with natural polymers for nets intended to repair hernia defects

25/06/2021 – 26/06/2021 Virtual Conference

Applications of Chemistry in Nanosciences and Biomaterials Engineering

Paper: Polyphenols: a natural alternative in cancer therapy

25/11/2021 – 27/11/2021 Virtual Conference

Applications of Chemistry in Nanosciences and Biomaterials Engineering

Paper: Composite drug delivery systems for bone cancer therapy

22/06/2022 – 24/06/2022 Virtual Conference

Applications of Chemistry in Nanosciences and Biomaterials Engineering

Paper: Chitosan/Hydroxyapatite Based Composite Structures for Bone Cancer Treatment

24/11/2022 – 26/11/2022 Virtual Conference

Applications of Chemistry in Nanosciences and Biomaterials Engineering

Paper: Composite Systems for Bone Tissue Regeneration

07/09/2023 – 08/09/2023 Mauritius

50th Textile Research Symposium (TRS 50)

Paper: Designing Electrical Circuits on Textiles through the Sputtering Method

12/10/2023 – 13/10/2023 Virtual Conference

International Conference on Textiles and Affiliated R&D Areas – TEX TEH XI

Paper: Evaluation of Skin Irritation Potential of Airborne Particles

04/12/2023 – 06/12/2023 Honolulu, Hawaii

14th AHFE International Conference on Human Factors in Design, Engineering, and Computing for All (AHFE 2023 Hawaii Edition)

Paper: Antimicrobial treatments of undergarments designed for the combat-protective clothing of soldiers

30/10/2024 – 31/10/2024 Virtual Conference

The 10th International Conference on Advanced Materials and Systems

Paper: Antibacterial-treated Textiles with Natural Active Compounds

26/07/2025 – 30/07/2025 Orlando, USA

16th International Conference on Applied Human Factors and Ergonomics (AHFE 2026)

● COURSES

Summer School on Imaging for Medical Applications (SSIMA), Ediția a II-a, București România

Main subject: Imaging in Cardiology

25/11/2019 – 28/11/2019

SEM and EDS Applications Training for Materials Science

Online

11/05/2020 – 14/05/2020

Curs de transfer tehnologic

Harvard University- edx platform

16/12/2021

Principles of Biochemistry

Turin, Italy

18/10/2022 – 19/10/2022

CHARISMA Raman School

Venice, Italy

15/05/2023 – 19/05/2023

Nanosafety Training School 2023: SSbD Approaches for Chemicals, Advanced Materials & Plastics

Online

02/2023 – 05/2023

Biomaterials and Tissue Engineering Course

Cagliari, Italy

17/09/2023 – 23/09/2023

6th International Mass Spectrometry School

● COMPETENTE DE COMUNICARE SI INTERPERSONALE

Communication and Interpersonal Skills

-Spirit de echipa: am experienta muncii in echipa inca din facultate, participand la activitatile presupuse de lucrarile practice si de cercetare din cadrul perioadei de practica
-Capacitate de argumentare a unui punct de vedere

● COMPETENȚE ORGANIZATORICE

Organizational Skills

-Bune capacitati organizatorice
-Gandire analitica
-Capaitate de multitasking