



# Isabella Nacu

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## EDUCAȚIE ȘI FORMARE PROFESIONALĂ

2021 – ÎN CURS Iași, România

**STUDII DE DOCTORAT** Scoala de Studii Avansate a Academiei Romane Institutul de Chimie Macromoleculara "Petru Poni"

**Adresă** Aleea Grigore Ghica Yoda nr. 41A, Iași, România

2018 – 2021 Iași, România

**STUDII DE MASTERAT** Facultatea de Bioinginerie Medicală in cadrul UMF "Grigore T. Popa"

**Adresă** Strada Kogalniceanu, nr. 11-13, 700454, Iași, România

2014 – 2018 Iasi, România

**STUDII DE LICENȚĂ** Facultatea de Bioinginerie Medicală in cadrul UMF "Grigore T. Popa"

**Adresă** Strada Kogalniceanu, nr. 11-13, 700454, Iasi, România

2010 – 2014 Tulcea

**STUDII LICEALE** Liceul Teoretic "Grigore Moisil" Tulcea

**Adresă** Strada 1848, nr. 7, 820182, Tulcea

## COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **ROMÂNĂ**

Altă limbă (Alte limbi):

	COMPREHENSIUNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Exprimare scrisă	Conversație	
<b>ENGLEZĂ</b>	B2	B2	B2	B2	B2

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

## COMPETENȚE DIGITALE

Microsoft Office | Microsoft Word | Microsoft Excel | Microsoft PowerPoint

## PROIECTE

**New hybrid polymer/peptide hydrogels as innovative platforms designed for cell cultures applications**

PN-III-P2-2.1-PED-2019-2743 (2020 - 2022)

**3D bio-inspired hybrid architectures for deep thickness skin repair and regeneration**

PN-III-P2-2.1-PED-2021-3003 (2022 - 2024)

## ACTIVITATE ȘTIINȚIFICĂ

Articole științifice

**Nacu I**, Bercea M, Niță L.E, Peptu C.A, Butnaru M, Vereștiuc L, „**3D bioprinted scaffolds based on functionalized gelatin for soft tissue engineering**”, *Reactive and Functional Polymers*, Volume 190, 2023. IF 5.1

Luca A, **Nacu I**, Tănăsache S, Peptu C.A, Butnaru M, Vereștiuc L, „**New Methacrylated Biopolymer-Based Hydrogels as Localized Drug Delivery Systems in Skin Cancer Therapy**”, *Gels*, Volume 9(5), 2023. IF 4.6

Niță L.E, **Nacu I**, Ghilan A, Rusu A.G, Șerban A.M, Bercea M, Vereștiuc L, Chiriac A.C, „**Evaluation of hyaluronic acid-polymacrolactone hydrogels with 3D printing capacity**”, *International Journal of Biological Macromolecules*, Volume 256, Part 2, 2024. IF 8.2

**Nacu I**, Ghilan A, Rusu A.G, Bercea M, Niță L.E, Vereștiuc L, Chiriac A.C, „**Hydrogels with Antioxidant Microparticles Systems Based on Hyaluronic Acid for Regenerative Wound Healing**”, *Macromolecular Bioscience*, 2024. IF 4.4

Botezatu I, **Nacu I**, Cojocaru F.D, Balan V, Bercea M, Niță L.E, Vereștiuc L, „**3D Printed composite scaffolds based on biopolymers, hydroxyapatite and magnetic nanoparticles for bone tissues defects repair**” – în evaluare

Crețu B.E.B, Dodi G, Gardikitios I, Bălan V, **Nacu I**, Stoica I, Stoleru E, Rusu A.G, Ghilan A, Niță L.E, Chiriac A.C, „**Bioactive Composite Cryogels Based on Poly (Vinyl Alcohol) and a Polymacrolactone as Tissue Engineering Scaffolds: In Vitro and In Vivo Studies**”, *Pharmaceutics*, 2023

Onu I, Gherghel R, **Nacu I**, Cojocaru F.D, Vereștiuc L, Matei D.V, Cașcaval D, Șerban I.L, Iordan A.D, Tucaliuc A, Galaction A, „**Can Combining Hyaluronic Acid and Physiotherapy in Knee Osteoarthritis Improve the Physicochemical Properties of Synovial Fluid?**”, *Biomedicines*, 2024.

Șerban A.M, **Nacu I**, Roșca I, Ghilan A, Rusu A.G, Niță L.E, Niță R.D, Chiriac A.C „**Preparation and Characterization of Polymeric Microparticles Based on Poly(ethylene brassylate-co-squaric Acid) Loaded with Norfloxacin**”, *Pharmaceutics*, 2024.

Platon I.V, Ghiorghita C.A, Lazar M.M, Aprotosoiaie A.C, Gradinaru A.C, **Nacu I**, Vereștiuc L, Nicolescu A, Ciocarlan N, Dinu V.M, „**Highly Compressible, Superabsorbent, and Biocompatible Hybrid Cryogel Constructs Comprising Functionalized Chitosan and St. John's Wort Extract**”, *Biomacromolecules*, 2024.

Bibire T, Dănilă R, Yilmaz C.N, Vereștiuc L, **Nacu I**, Ursu R.G, Ghiciuc C.M „**In Vitro Biological Evaluation of an Alginate-Based Hydrogel Loaded with Rifampicin for Wound Care**”, *Pharmaceutics*, 2024.

Afloarea O.T, **Nacu I**, Vereștiuc L, Yilmaz C.N, Panainte A.D, Peptu C.A, Ostafe I.G, Bibire N, „**In Vitro and Ex Vivo Evaluation of Novel Methacrylated Chitosan-PNIPAAm-Hyaluronic Acid Hydrogels Loaded with Progesterone for Applications in Vaginal Delivery**”, *Polymers*, 2024.

## ● PREZENTĂRI INTERNAȚIONALE

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### Comunicări Orale

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**International Conference on e-Health and Bioengineering, Iași, 2021:** Donea R, **Nacu I**, Butnaru M, Vereștiuc L, „**Methacrylated Collagen/Chitosan Based Hydrogels as Scaffolds for Soft Tissue Engineering**”

**International Conference on e-Health and Bioengineering, Iași, 2022:** **Nacu I**, Baiu T, Niță L.E, Vereștiuc L, „**3D Bioprinted Methacrylated Gelatin-Based Scaffolds**”, **MENȚIUNE**

**International Biomedical Science and Technology Symposium, Ankara, Turcia, 2022:** **Nacu I**, Nedelcu L, Niță L.E, Vereștiuc L, „**3D Bioprinted hybrid hydrogels based on gelma and functionalised biopolymers for tissue engineering**”.

**International Conference on Bioengineering and Polymer Science, București, 2023:** **Nacu I**, Ilie I, Tunaru A, Niță L.E, Vereștiuc L, „**3D Bioprinted Scaffolds Based on Functionalised Gelatin and Sodium Alginate for Soft Tissue Engineering**”.

**NanoBioMat Summer Edition, București, 2023:** Botezatu I, **Nacu I**, Cojocaru FD, Bălan V, Vereștiuc L „**3D printed scaffolds based on biopolymers-calcium phosphates and magnetic nanoparticles for bone tissue engineering**” – **Best Paper Award**

**MacroYouth, Iași, 2023:** **Nacu I**, Niță L.E, Vereștiuc L, „**Biocompatible Scaffolds based on Functionalised Polymers For Soft Tissue Engineering**” – **Premiul II**

**NanoBioMat Winter Edition, București, 2023:** **Nacu I**, Ilie I, Tunaru A, Niță L.E, Vereștiuc L, „**Biocompatible Hybrid Scaffold based on Functionalised Gelatin For Soft Tissue Engineering**”.

*Conferința Tehnico-științifică a studenților, masteranzilor și doctoranzilor a Universității Tehnice a Moldovei, Chișinău, 2024: Nacu I, Ilie I, Tunaru A, Niță L.E, Verestiuc, 3D Bioprinted Scaffolds Based on Functionalized Biopolymers for Soft Tissue Engineering.*

*Conferința Tehnico-științifică a studenților, masteranzilor și doctoranzilor a Universității Tehnice a Moldovei, Chișinău, 2024: Ghiță I, Nacu I, Verestiuc L, Vascular grafts obtained through 3D printing technologies – Premiul III*

*NanoBioMatSummerEdition, București, 2024: Nacu I, Ilie I, Tunaru A, Niță L.E, Verestiuc L, Complex 3D printed architectures for skin tissue repair and regeneration. – Best Presentation Award*

## Postere

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Tissue Engineering and Regenerative Medicine International Society, Inc.- European Chapter, 2022 TERMIS-EU Conference, Krakow : Nacu I, Nedelcu L, Niță L.E, Peptu C.A, Verestiuc L, „3D Bioprinted scaffolds based on functionalised gelatin/chitosan/xanthan, dextran for soft tissue engineering”.

Tissue Engineering and Regenerative Medicine International Society, Inc.- European Chapter, 2022 TERMIS-EU Conference, Krakow : Botezatu I, Nacu I, Cojocaru FD, Bălan V, Niță L.E, Verestiuc L, „3D Printable functionalised gelatin/chitosan, hyaluronic acid, hydroxyapatite and magnetic nanoparticles scaffolds for bone regeneration”.

Appolonia, Iași, 2024: Nacu I, Ghilan A, Rusu A.G, Serban A.M, Bercea M, Vereștiuc L, Nita L.E, „Hybrid hydrogel systems based on hyaluronic acid and a copolymacro-lactone structure”.

## STAGII

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Training school on 3D-printing of gels and aerogels, Santiago de Compostela, Spania, 2022.

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Course on Molecular Toxicology Symposium, Izmir, Turcia, 2024

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27.08.2024

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