



Diana-Gabriela Nitușcă

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ABOUT ME

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WORK EXPERIENCE

RESIDENT PHARMACIST - GENERAL PHARMACY - TIMIȘ COUNTY EMERGENCY CLINICAL HOSPITAL – 01/02/2026 – Current – TIMISOARA, ROMANIA

RESIDENT PHARMACIST - CLINICAL PHARMACY - TIMIȘ COUNTY EMERGENCY CLINICAL HOSPITAL – 01/02/2023 – 31/01/2026

UNIVERSITY ASSISTANT PROFESSOR - DISCIPLINE OF BIOCHEMISTRY - "VICTOR BABES" UNIVERSITY OF MEDICINE AND PHARMACY – 01/09/2021 – Current

RESIDENT PHARMACIST - LABORATORY PHARMACY - TIMIȘ COUNTY EMERGENCY CLINICAL HOSPITAL – 01/02/2020 – 31/01/2023

VOLUNTEER IN ACADEMIC DEVELOPMENT ACTIVITY (VADA) - BIOCHEMISTRY DISCIPLINE (RESEARCH AND TEACHING) - "VICTOR BABES" UNIVERSITY OF MEDICINE AND PHARMACY – 11/10/2017 – 17/05/2019 – TIMIȘOARA, ROMANIA

EDUCATION AND TRAINING

01/10/2019 – 15/07/2024 Timișoara, Romania

PHD STUDENT IN MEDICINE - BIOCHEMISTRY DISCIPLINE "Victor Babes" University of Medicine and Pharmacy

Address Piața Eftimie Murgu, Nr. 2, 300041, Timișoara, Romania

15/09/2014 – 09/09/2019 Timișoara, Romania

BACHELOR DEGREE IN PHARMACY UNIVERSITY "Victor Babes" University of Medicine and Pharmacy

15/09/2010 – 15/06/2014 Timișoara, Romania

BACCALAUREATE DEGREE Colegiul Național "Constantin Diaconovici Loga"

Mathematics–Informatics

PROJECTS

01/05/2022 – 15/07/2025

Performance evaluation of a microRNA panel as clinical and histopathological biomarkers of prostate cancer (PN-III-P2-2.1-PED-2021-1171)

Evaluating the expression of a microRNA (miRNA) panel in circulating (plasma and urine) and tissue biopsy specimens of prostate cancer patients using quantitative real-time polymerase chain reaction (qRT-PCR); correlating gene expression from all biological samples between each other and with Gleason score; statistical analysis using parametric and non-parametric tools in order to establish the bioarker potential of this miRNA panel.

22/12/2021 – 22/12/2022

Analysis of metabolomic profiling by high-performance liquid chromatography coupled with mass spectrometry to identify new diagnostic biomarkers for prostate cancer (25332/22.12.2021)

Aim: Analysis of the metabolomic profile in circulating biological samples from prostate cancer patients and from healthy controls, by the technique of (ultra)high performance liquid chromatography (UHPLC) coupled with electrospray ionization (ESI) mass spectrometry (MS), to evaluate the diagnostic and prognostic potential of differentially expressed metabolites, to complement the diagnostic strategies currently used for prostate cancer.

● **CONFERENCES AND SEMINARS**

Conference

Participation in the National Congress of Pharmaceutical Students, XVth Edition, April 5-9, 2017, Bucharest

Conference

Participation in the Romanian Pharmacist Students Gala, 6th Edition, December 3-6, 2015, Timisoara, with the theme "Pharmacist-patient relationship. Self-medication and therapeutic failure."

Conference

Participation in the Romanian Pharmacist Students Gala, 5th Edition, December 4-7, 2014, Oradea, with the theme "Perspectives and challenges in the pharmaceutical field"

● **CERTIFICATIONS**

1st International Summer School of Medical Plant Pharmaco-Toxicology

Oral presentation within the Biochemistry scientific circle, the work entitled "CYP2D6 genotyping using the RFLP PCR method"

● **PUBLICATIONS**

Lipidomic Signature of Pregnant and Postpartum Females by Longitudinal and Transversal Evaluation: Putative Biomarkers Determined by UHPLC-QTOF-ESI+-MS

2025

Traila A, Craina M, Socaciu C, Socaciu AI, **Nitusca D**, Marian C. Lipidomic Signature of Pregnant and Postpartum Females by Longitudinal and Transversal Evaluation: Putative Biomarkers Determined by UHPLC-QTOF-ESI+-MS. *Metabolites*. 2025 Jan 8;15(1):27. doi: 10.3390/metabo15010027.

Involvement of the Expression of G Protein-Coupled Receptors in Schizophrenia.

2024

Kalinovic R, Pascariu A, Vlad G, **Nitusca D**, Sălcudean A, Sirbu IO, Marian C, Enatescu VR. Involvement of the Expression of G Protein-Coupled Receptors in Schizophrenia. *Pharmaceuticals (Basel)*. 2024 Jan 9;17(1):85. doi: 10.3390/ph17010085.

HB-EGF Plasmatic Level Contributes to the Development of Early Risk Prediction Nomogram for Severe COVID-19 Cases

2024

Moatar AI, Chis AR, **Nitusca D**, Oancea C, Marian C, Sirbu IO. HB-EGF Plasmatic Level Contributes to the Development of Early Risk Prediction Nomogram for Severe COVID-19 Cases. *Biomedicines*. 2024 Feb 5;12(2):373. doi: 10.3390/biomedicines12020373.

Lipidomic Signature of Plasma and Synovial Fluid in Patients with Osteoarthritis: Putative Biomarkers Determined by UHPLC-QTOF-ESI+MS

2024

Stanciugelu SI, Patrascu JM, Patrascu JM Jr, Socaciu C, Socaciu AI, **Nitusca D**, Marian C. Lipidomic Signature of Plasma and Synovial Fluid in Patients with Osteoarthritis: Putative Biomarkers Determined by UHPLC-QTOF-ESI+MS. *Diagnostics (Basel)*. 2024 Aug 22;14(16):1834. doi: 10.3390/diagnostics14161834.

Potential Diagnostic Biomarker Detection for Prostate Cancer Using Untargeted and Targeted Metabolomic Profiling

2023

Nitusca D, Socaciu C, Socaciu AI, Sirbu IO, Bardan R, Cumpanas AA, Seclaman E, Marian C. Potential Diagnostic Biomarker Detection for Prostate Cancer Using Untargeted and Targeted Metabolomic Profiling. *Curr Issues Mol Biol*. 2023 Jun 8;45(6):5036-5051. doi: 10.3390/cimb45060320.

Plasma miR-195-5p predicts the severity of Covid-19 in hospitalized patients

2023

Moatar AI, Chis AR, Romanescu M, Ciordas PD, **Nitusca D**, Marian C, Oancea C, Sirbu IO. Plasma miR-195-5p predicts the severity of Covid-19 in hospitalized patients. *Sci Rep*. 2023 Aug 23;13(1):13806. doi: 10.1038/s41598-023-40754-w.

The First Identification of *Trichinella britovi* in the Raccoon Dog (*Nyctereutes procyonoides*) in Romania

2023

Marin AM, Popovici DC, Dărăbuș G, Marian C, **Nițușcă D**, Mederle N. The First Identification of *Trichinella britovi* in the Raccoon Dog (*Nyctereutes procyonoides*) in Romania. *Pathogens*. 2023 Sep 5;12(9):1132. doi: 10.3390/pathogens12091132.

2022

Diagnostic Value of microRNA-375 as Future Biomarker for Prostate Cancer Detection: A Meta-Analysis

Nitusca D, Marcu A, Seclaman E, Bardan R, Sirbu IO, Balacescu O, Bucur AI, Ursoniu S, Marian C. Diagnostic Value of microRNA-375 as Future Biomarker for Prostate Cancer Detection: A Meta-Analysis. *Medicina (Kaunas)*. 2022 Apr 10;58(4):529. doi: 10.3390/medicina58040529. PRIM AUTOR

2022

Adiponectin in Osteoarthritis: Pathophysiology, Relationship with Obesity and Presumptive Diagnostic Biomarker Potential

Iliia I, **Nitusca D**, Marian C. Adiponectin in Osteoarthritis: Pathophysiology, Relationship with Obesity and Presumptive Diagnostic Biomarker Potential. *Diagnostics (Basel)*. 2022 Feb 10;12(2):455. doi: 10.3390/diagnostics12020455.

2022

Mannose-binding lectin 2 gene polymorphisms and predisposition to allergic bronchial asthma in a western Romanian children population: an observational study

Borta SM, Donath-Miklos I, Popetiu R, Nica DV, **Nitusca D**, Crisan A, Marian C, Puschita M. Mannose-binding lectin 2 gene polymorphisms and predisposition to allergic bronchial asthma in a western Romanian children population: an observational study. *J Int Med Res*. 2022 Jul;50(7):3000605221109389. doi: 10.1177/03000605221109389.

2022

Osteoarthritis and microRNAs: Do They Provide Novel Insights into the Pathophysiology of This Degenerative Disorder?

Iulian Stanciugelu S, Homorogan C, Selaru C, Patrascu JM, Patrascu JM Jr, Stoica R, **Nitusca D**, Marian C. Osteoarthritis and microRNAs: Do They Provide Novel Insights into the Pathophysiology of This Degenerative Disorder? *Life (Basel)*. 2022 Nov 17;12(11):1914. doi: 10.3390/life12111914.

2022

Metabolomic Analysis of Plasma from Breast Cancer Patients Using Ultra-High-Performance Liquid Chromatography Coupled with Mass Spectrometry: An Untargeted Study

Da Cunha PA, **Nitusca D**, Canto LMD, Varghese RS, Resson HW, Willey S, Marian C, Haddad BR. Metabolomic Analysis of Plasma from Breast Cancer Patients Using Ultra-High-Performance Liquid Chromatography Coupled with Mass Spectrometry: An Untargeted Study. *Metabolites*. 2022 May 17;12(5):447. doi: 10.3390/metabo12050447.

2021

Long Noncoding RNA NEAT1 as a Potential Candidate Biomarker for Prostate Cancer

Nitusca D, Marcu A, Dema A, Balacescu L, Balacescu O, Bardan R, Cumpanas AA, Sirbu IO, Petrut B, Seclaman E, Marian C. Long Noncoding RNA NEAT1 as a Potential Candidate Biomarker for Prostate Cancer. *Life (Basel)*. 2021;11(4):320. doi: 10.3390/life11040320. PRIM AUTOR

2021

Untargeted Plasma Metabolomic Profiling in Patients with Major Depressive Disorder Using Ultra-High Performance Liquid Chromatography Coupled with Mass Spectrometry

Homorogan, C., **Nitusca, D.**, Enatescu, V., Schubart, P., Moraru, C., Socaciu, C., & Marian, C. (2021). Untargeted Plasma Metabolomic Profiling in Patients with Major Depressive Disorder Using Ultra-High Performance Liquid Chromatography Coupled with Mass Spectrometry. *Metabolites*, 11(7), 466. PRIM AUTOR (contributii egale)

2021

Long Non-Coding RNA Expression in Laser Micro-Dissected Luminal A and Triple Negative Breast Cancer Tissue Samples-A Pilot Study

Marcu A, **Nitusca D**, Vaduva A, Baderca F, Cireap N, Coricovac D, Dehelean CA, Seclaman E, Ilinca R, Marian C. Long Non-Coding RNA Expression in Laser Micro-Dissected Luminal A and Triple Negative Breast Cancer Tissue Samples-A Pilot Study. *Medicina (Kaunas)*. 2021;57(4):371. doi: 10.3390/medicina57040371.

2021

Distribution of microRNAs associated with major depressive disorder among blood compartments

Homorogan C, Enatescu VR, **Nitusca D**, Marcu A, Seclaman E, Marian C. Distribution of microRNAs associated with major depressive disorder among blood compartments. *J Int Med Res*. 2021;49(4):3000605211006633. doi: 10.1177/03000605211006633.

2021

Body Mass Index Influence for the Personalization of the Monoclonal Antibodies Therapy for Psoriasis

Anghel F, **Nitusca D**, Cristodor P. Body Mass Index Influence for the Personalization of the Monoclonal Antibodies Therapy for Psoriasis. *Life (Basel)*. 2021 Nov 29;11(12):1316. doi: 10.3390/life11121316.

2021

Uncovering the Roles of MicroRNAs in Major Depressive Disorder: From Candidate Diagnostic Biomarkers to Treatment Response Indicators

Homorogan C, **Nitusca D**, Seclaman E, Enatescu V, Marian C. Uncovering the Roles of MicroRNAs in Major Depressive Disorder: From Candidate Diagnostic Biomarkers to Treatment Response Indicators. *Life (Basel)*. 2021 Oct 11;11(10):1073. doi: 10.3390/life11101073.

2019

Biomarker Potential of Plasma MicroRNA-150-5p in Prostate Cancer

Paunescu IA, Bardan R, Marcu A, **Nitusca D**, Dema A, Negru S, Balacescu O, Balacescu L, Cumpanas A, Sirbu IO, Petrut B, Seclaman E, Marian C. Biomarker Potential of Plasma MicroRNA-150-5p in Prostate Cancer. *Medicina (Kaunas)*. 2019;55(9):564. doi: 10.3390/medicina55090564.