Alina Ionela Stancu
Professional Experience

Formulation Researcher
Teva Pharmaceuticals – Sindan Pharma, Bucharest
July 2023 – Present

- Development of generic and sterile pharmaceutical products (cytostatics) for the local site and other global Teva sites.
- Coordinating studies for pharmaceutical products under development.
- Assisting in the maintenance of internal quality systems and GxP activities.
- Supporting the drafting and reviewing of GxP documents.
- Drafting standard operating procedures, working protocols, and study reports using Glorya platform.
- Providing support to the Quality team in managing deviations investigations, change controls and CAPAs by TrackWise and Veeva platforms.
- Assisting in the transfer of samples for submission purposes.
- Preparing documents and drafting reports for vendor qualifications

Research and Development Chemist
Teva Pharmaceuticals – Sindan Pharma, Bucharest
March 2022 – July 2023

- Conducted physical-chemical tests for pharmaceutical and generic products (cytostatics) in the development phase (experimental and engineering series) and market launch (stability and compatibility studies).
- Analyses: HPLC, IR, UV-VIS, DSC, KF and tests following pharmacopoeia monographs.

Research Assistant
National Institute of Food Bioresources, Bucharest
October 2020 – October 2021

- Research and development of functional foods and dietary supplements.
- Implemented and maintained laboratory quality systems per ISO 17025:2017 and ISO 9001:2015 standards.

Analytical Chemist
Labormed Pharma, Bucharest
October 2019 – October 2020

- Performed physical-chemical tests on oral pharmaceutical products and raw materials (excipients, active substances).
- Analysis: HPLC, GC, IR, UV-VIS, KF and tests following pharmacopoeia monographs.



Research Assistant
Ilie Murgulescu Institute of Physical Chemistry, Bucharest
October 2017 – October 2018

- Investigated non-covalent interactions in polymeric and hybrid hydrogels using electron spin resonance spectroscopy.
- Synthesized functionalized cyclodextrins and spin-labeled alginates to study host-guest interactions in hydrogels.
- RES, FT-IR, DSC, and UV-VIS analysis.

Education

Ph.D.
Faculty of Chemical Engineering and Biotechnology, National University of Science and Technology POLITEHNICA Bucharest, Department of Oxide Materials Science and Engineering and Nanomaterials.
2019 – 2025

Master's degree in applied microbiology and Immunology
Faculty of Biology, University of Bucharest
2018 – 2020

Master's Degree in Medicinal Chemistry and Cosmetic Products
Faculty of Chemistry, University of Bucharest
2017 – 2019

Bachelor's Degree in Technological Biochemistry
Faculty of Chemistry, University of Bucharest
2014 – 2017

Conferences

- *Preliminary Studies on the Beta-Cyclodextrin Encapsulation of Eugenia Caryophyllata Essential Oil and Eucalyptol* - EnergEN Conference, **October 2018**, Băile Govora, Romania.
- *Studies on the Antioxidant and Antimicrobial Activity of Verbena Officinalis and Aloysia Triphylla Extracts* - Scientific Session D. Brândză, **November 2019**, Bucharest, Romania.
- *Inclusion Systems with Antimicrobial Properties* - Chemistry Applications in Nanoscience and Biomaterial Engineering, **July 2020**, Bucharest, Romania.

Publications

- New flexible moleclar probes bearing dansyl and TEMPO moieties for host-guest interactions in solutions and gels, *New J. Chem.,* 2019, https://doi.org/10.1039/C9NJ01554J**.**



- Chemical composition and antimicrobial activity of *Verbena Officinalis* and *Aloysia Citrodora* extracts obtained by traditional and laboratory methods- U.P.B. Sci. Bull., Series B, Vol. 86, Iss. 3, 2024.

- Development, optimization and evaluation of new gel formulations with cyclodextrin complexes and volatile oils with antimicrobial activity, Gels **2024**, 10, 645, https://doi.org/10.3390/gels10100645.

- Comparative Evaluation of *β*-Cyclodextrin Inclusion Complexes with Eugenol, Eucalyptol, and Clove Essential Oil: Characterisation and Antimicrobial Activity Assessment for Pharmaceutical Applications. *Pharmaceutics* **2025**, *17*, 852, https://doi.org/10.3390/pharmaceutics17070852.

- New Antimicrobial Gels Based on Clove Essential Oil–Cyclodextrin Complex and Plant Extracts for Topical Use. Gels **2025**, 11, 653. https://doi.org/10.3390/gels11080653.

Patent applications

I. Application title: Vaginal suppositories with a β-cyclodextrin inclusion complex of clove essential oil

Application number: RO137321-A0
Filing date: 25.10.2022
Publication date: 30.03.2023 CC BY 4.0 license
Applicant: "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY, BUCHAREST
Inventors: MITITELU MAGDALENA, STANCU ALINA IONELA, OPREA ELIZA, DIŢU LIA-MARA, BULEANDRĂ MIHAELA, BADEA IRINEL ADRIANA, DINU-PÎRVU CRISTINA ELENA, DRĂGĂNESCU DOINA, JINGA VIOREL, NEACŞU SORINEL MARIUS, FICAI ANTON
https://0510qpd9a-y-https-www-webofscience-com.z.e-nformation.ro/wos/diidw/full-record/DIIDW:2023383570

II. Application title: Mouthwash containing a β-cyclodextrin inclusion complex with clove essential oil

Application number: RO137277-A0
Filing date: 25.10.2022
Publication date: 28.02.2023
Applicant: "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY, BUCHAREST
Inventors: MITITELU MAGDALENA, STANCU ALINA IONELA, OPREA ELIZA, DIŢU LIA-MARA, BULEANDRĂ MIHAELA, BADEA IRINEL ADRIANA, DINU-PÎRVU CRISTINA ELENA, DRĂGĂNESCU DOINA, NEACŞU SORINEL MARIUS, JINGA VIOREL, FICAI ANTON
https://0510qpd9a-y-https-www-webofscience-com.z.e-nformation.ro/wos/diidw/full-record/DIIDW:202330614E

III. Application title: Composition for a multivalent toothpaste containing a β-cyclodextrin inclusion complex with clove essential oil

Application number: RO137276-A0
Filing date: 25.10.2022
Publication date: 28.02.2023
Applicant: "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY, BUCHAREST
Inventors: MITITELU MAGDALENA, STANCU ALINA IONELA, OPREA ELIZA, DIŢU LIA-MARA, BULEANDRĂ MIHAELA, BADEA IRINEL ADRIANA, DINU-PÎRVU CRISTINA ELENA, DRĂGĂNESCU DOINA, GHICA MIHAELA VIOLETA, JINGA VIOREL, FICAI ANTON

https://0510qpd9a-y-https-www-webofscience-com.z.e-nformation.ro/wos/diidw/full-record/DIIDW:202330612X

Certificates

- English Language Proficiency Certificate - Issued by the University of Bucharest, Faculty of Foreign Languages and Literatures
- Internal Auditor Certificate ISO 9001:2015 accredited by ANC – Quality Management System, ISO 9001:2015, TÜV AUSTRIA Group

