F17 - Memoriul ştiinţific al studentului doctorand
Universitatea Naţională de Ştiinţă şi Tehnologie POLITEHNICA Bucureşti

IOSUD-UNSTPB

Şcoala Doctorală Inginerie Chimică şi Biotehnologii

MEMORIU ŞTIINŢIFIC

Drd. Alina Ionela STANCU

Studii de doctorat

Perioada: 2019 - 2025

Conducător ştiinţific: Prof. Dr. Ing. Anton FICAI

Domeniu: Inginerie Chimică

Titlul tezei de doctorat: Polymeric antimicrobial systems used in the treatment of skin conditions (Sisteme polimerice antimicrobiene utilizate în tratamentul afecţiunilor pielii)

Activitate ştiinţifică

A. Lista de lucrări ştiinţifice (articole în reviste sau volume)

1. Stancu, A.I.; Mititelu, M.; Ficai, A.; Ditu, L.-M.; Buleandră, M.; Badea, I.A.; Pincu, E.; Stoian, M.C.; Brîncoceanu, O.; Boldeiu, A.; et al. 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. https://doi.org/10.3390/pharmaceutics17070852 (Q1, IF=5.5)

2. Stancu, A.I.; Oprea, E.; Ditu, L.M.; Ficai, A.; Ilie, C.-I.; Badea, I.A.; Buleandră, M.; Brîncoceanu, O.; Ghica, M.V.; Avram, I.; et al. 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 (Q1, IF=5.3).

3. **Stancu, A.I.; Ditu, L.M.; Oprea, E.; Ficai, A.; Badea, I.A.; Buleandră, M.; Brîncoceanu, O.; Mirea, A.G.; Voicu, S.N.; Musuc, A.M.; et al.** 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 (Q1, IF=5.3).

4. **Stancu, A.-I.; Geană, E.I.; Ditu, L.-M.; Ficai, A.; Nagoda, E.; Oprea, E.** Chemical Composition and Antimicrobial Activity of *Verbena officinalis* and *Aloysia citrodora* Extracts Obtained by Traditional and Laboratory Methods. *U.P.B. Sci. Bull. Ser. B* 2024, 86, 111–122. ISSN 1454–2331.

B. Participări la conferinţe

1. **Stancu Alina Ionela**, Ficai Anton, Diţu Lia-Mara, Mititelu Magdalena, Oprea Eliza, APPLICATIONS OF CHEMISTRY IN NANOSCIENCES AND BIONANOMATERIALS ENGINEERING, July 16-17, 2020, Bucharest – prezentare oralăConferinţa, locaţia, data;

C. Cereri Brevete

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

Scanat cu CamScanner

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

Student-doctorand

.....

Scanat cu CamScanner