



Student Scientific Research Group
“Electrophoresis and Related Techniques in Drug Research and Analysis
(ECDrug)”
Academic year 2026/2027

Members:

Gabriel Hancu, PhD, professor (coordinator)

Aura Rusu, PhD, professor

Székely Szentmiklósi Blanka, PhD, lecturer

Török Győző, analyst

PhD students:

Alexandra Uilăcan, PhD student (3rd year)

Denisa Gabriela Stroia, PhD student (2nd year)

Ecaterina Gliga, PhD student (1st year)

Student:

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Research topics:

1. Development of capillary electrophoresis methods for the determination of pharmaceutical substances from pharmaceutical preparations

1.1. Development of capillary electrophoresis methods for the simultaneous determination of pharmaceutical substances with similar structural and physico-chemical characteristics

1.2. Development of capillary electrophoresis methods for the simultaneous determination of pharmaceutical substances from fixed dose combinations

1.3. Developement of capillary electrophoresis methods for the determination of the presence of illicit substances in adulterated dietary supplements

2. Applications of capillary electrophoresis in the analysis of chiral pharmaceutical substances

2.1. Cyclodextrins as chiral selectors in the enantioseparation of pharmaceutical substances by capillary electrophoresis



- 2.2. Neutral cyclodextrins vs. ionized cyclodextrins in the chiral separation of pharmaceutical substances by capillary electrophoresis
- 2.3. Method development and optimization for the separation and determination of enantiomers in pharmaceutical preparations by capillary electrophoresis
- 2.4. Application of experimental design in the development of chiral separation methods for pharmaceuticals by capillary electrophoresis
- 2.5. Verification of chiral impurities and enantiomer ratio of pharmaceuticals by capillary electrophoresis
- 2.6. High performance liquid chromatography vs. Capillary electrophoresis in modern chiral analysis

3.Applications of capillary electrophoresis in the analysis of biological samples

- 3.1.Development of capillary electrophoresis methods for determination of pharmaceutical substances from biological samples (urine, plasma).

4. Application of capillary electrophoresis in the analysis of food

- 4.1. Development of capillary electrophoresis methods for the determination of honey composition
- 4.2. Development of capillary electrophoresis methods for the determination of xenobiotics presence in honey
- 4.3. Capillary Electrophoresis as a Tool for the Characterization of Wine Components
- 4.4. Analytical Applications of Capillary Electrophoresis in the Evaluation of Wine Quality

5. Application of high performance liquid chromatography in the analysis of pharmaceutical substances

Relevant techniques:

Capillary electrophoresis (CE)

High performance liquid chromatography (HPLC)

Relevant *in extenso* ISI and BDI articles of the student scientific research team (student/PhD student name is highlighted):

ISI articles (2016-2026):

- 1. **Gliga E.** Hancu G. *Design-of-Experiments optimized micellar electrokinetic chromatography method for the simultaneous determination of dapagliflozin and metformin in pharmaceutical formulations*, Separation Science Plus, 2026; 9:e70273, doi: 10.1002/sscp.70273, FI: 2,70, (Q3).



RESEARCH ARTICLE

Design-of-Experiments Optimized Micellar Electrokinetic Chromatography Method for the Simultaneous Determination of Dapagliflozin and Metformin in Pharmaceutical Formulations

Ecaterina Gliga | Gabriel Hancu

Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Science and Technology of Targu Mures, George Emil Palade, University of Medicine, Pharmacy, Targu Mures, Romania

2. **Niculaș C.** Hancu G. Szabó Z.I. Cârje A.G. Ion V. Muntean D.L. Design of experiments-assisted micellar electrokinetic chromatography separation of phosphodiesterase-5 inhibitors: Application to Sildenafil and Tadalafil, Journal of Separation Science, 2026, 49:e70429, doi: 10.1002/jssc.70429, FI: 2,80 (Q2).



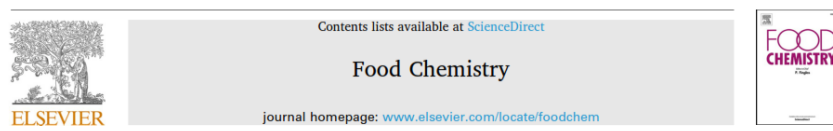
ORIGINAL ARTICLE

Design of Experiments-assisted Micellar Electrokinetic Chromatography Separation of Phosphodiesterase-5 Inhibitors: Application to Sildenafil and Tadalafil

Cristina Niculaș¹ | Gabriel Hancu² | Zoltán István Szabó³ | Anca Gabriela Cârje⁴ | Valentin Ion⁴ | Daniela Lucia Muntean⁴

3. **Lupu D.** Sammani S.M. Palacio E. Hancu G. Ferrer L. *Distinctive mineral and physicochemical parameters assessment of carob honey (Mallorca Island) from Spanish honeys exploiting dimensionality reduction tools and cluster analysis*, Food Chemistry, 2025, 492(2), 1445448, doi: 10.1016/j.foodchem.2025.145448, FI: 9,80 (Q1).

Food Chemistry 492 (2025) 145448



Distinctive mineral and physicochemical parameters assessment of carob honey (Mallorca Island) from Spanish honeys exploiting dimensionality reduction tools and cluster analysis[☆]

Daniela Lupu^{a,b}, Mohamad Subhi Sammani^a, Edwin Palacio^a, Gabriel Hancu^b, Laura Ferrer^{a,*}

4. **Lupu D.** Sammani S.M. Palacio E. Hancu G. (autor corespondent) Ferrer L. *Comprehensive honey analysis: A novel HPLC-DAD method for hydroxymethylfurfural quantification and quality evaluation via diastase activity and sugar profile determination*, Journal of Food Composition and Analysis, 2025, 137, 106925, doi: 10.1016/j.jfca.2024.106925, FI: 4,00 (Q2).



Comprehensive honey analysis: A novel HPLC-DAD method for hydroxymethylfurfural quantification and quality evaluation via diastase activity and sugar profile determination

Daniela Lupu^{a,b}, Mohamad Subhi Sammani^a, Edwin Palacio^a, Gabriel Hancu^{b,*}, Laura Ferrer^a

5. **Modroiu A.** Marzullo L. Orlandini S. Gotti R. Hancu G. Furlanetto S. *Analytical quality by design-based development of a capillary electrophoresis method for omeprazole impurity profiling*, Journal of Pharmaceutical and Biomedical Analysis. 2024, 248, 116295, doi: 10.1016/j.jpba.2024.116295, FI: 3,10 (Q2)



Analytical quality by design-based development of a capillary electrophoresis method for Omeprazole impurity profiling

Adriana Modroiu^{a,b}, Luca Marzullo^b, Serena Orlandini^{b,*}, Roberto Gotti^c, Gabriel Hancu^a, Sandra Furlanetto^b



6. **Modroiu A.** Sulaiman K. Hancu G. Scriba G. *Quality by design-guided development of a capillary electrophoresis method for the chiral purity determination of silodosin*, Journal of Pharmaceutical and Biomedical Analysis, 2023, 222, 115117, doi: 10.1016/j.jpba.2022.115117, FI: 3,10 (Q2)



Quality by design-guided development of a capillary electrophoresis method for the chiral purity determination of silodosin

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7. **Modroiu A.** Sulaiman K. Hancu G. Scriba G. *Quality by design-guided development of a capillary electrophoresis method for the simultaneous chiral purity determination and impurity profiling of tamsulosin*, Journal of Separation Science, 2023; doi: 10.1002/jssc.202300604; FI: 3,10 (Q2).



Quality by design-guided development of a capillary electrophoresis method for the simultaneous chiral purity determination and impurity profiling of tamsulosin

Adriana Modroiu^{1,2} | Sulaiman Krait¹ | Gabriel Hancu² | Gerhard K. E. Scriba¹

8. Cârceu-Dobrin M. Hancu G. Papp L.A. Fülöp I. *Chiral discrimination of mexiletine enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors and experimental design method optimization*, *Molecules*, 2022, 27(17), 5603, doi: 10.3390/molecules27175603, FI: 4,60 (Q2).



molecules



Article

Chiral Discrimination of Mexiletine Enantiomers by Capillary Electrophoresis Using Cyclodextrins as Chiral Selectors and Experimental Design Method Optimization

Melania Cârceu-Dobrin ^{1,*}, Gabriel Hancu ^{1,*} , Lajos Attila Papp ¹ and Ibolya Fülöp ²

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9. Orlandini S Hancu G. Szabó Z.I. Modroiu A. Papp L.A. Gotti R. Furlanetto S. *New trends in the quality control of enantiomeric drugs: Quality by Design-compliant development of chiral capillary electrophoresis methods*, *Molecules*, 2022, 27 (20), 7058, doi: 10.3390/molecules27207058, FI: FI: 4,60 (Q2)



molecules



Review

New Trends in the Quality Control of Enantiomeric Drugs: Quality by Design-Compliant Development of Chiral Capillary Electrophoresis Methods

Serena Orlandini ^{1,*} , Gabriel Hancu ^{2,*} , Zoltán-István Szabó ³ , Adriana Modroiu ², Lajos-Attila Papp ² , Roberto Gotti ⁴ and Sandra Furlanetto ¹

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10. Hancu G. Orlandini S. Papp L.A. Modroiu A. Gotti R. Furlanetto S. *Application of experimental design methodologies in the enantioseparation of pharmaceuticals by capillary electrophoresis: a review*, *Molecules*, 2021, 26(15), 4681, doi: 10.3390/molecules26154681, FI: 4,60 (Q2).



Review

Application of Experimental Design Methodologies in the Enantioseparation of Pharmaceuticals by Capillary Electrophoresis: A Review

Gabriel Hancu ^{1,*}, Serena Orlandini ^{2,†}, Lajos Attila Papp ^{1,*}, Adriana Modroiu ¹, Roberto Gotti ³ and Sandra Furlanetto ²

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11. Papp L.A. **Krizbai S.** Dobó M. Hancu G. Szabó Z.I. Tóth G. *Determination of chiral impurity of naproxen in different pharmaceutical formulations using polysaccharide-based stationary phases in reversed-phased mode*, *Molecules*, 2022, 27 (11), 2986, doi: doi.org/10.3390/molecules27092986, FI: 4,60 (Q2).



Article

Determination of Chiral Impurity of Naproxen in Different Pharmaceutical Formulations Using Polysaccharide-Based Stationary Phases in Reversed-Phased Mode

Lajos-Attila Papp ^{1,*}, Sarolta Krizbai ¹, Máté Dobó ², Gabriel Hancu ¹, Zoltán-István Szabó ^{3,*} and Gergő Tóth ²

12. **Cârcu-Dobrin M.** Hancu G. Papp L.A. Fülöp I. Kelemen H. *Development of a chiral capillary electrophoresis method for the enantioseparation of verapamil using cyclodextrins as chiral selectors and experimental design optimization*, *Symmetry*, 2021, 13, 2186, doi: 10.3390/sym13112186; FI: 2,940 (Q2)



Article

Development of a Chiral Capillary Electrophoresis Method for the Enantioseparation of Verapamil Using Cyclodextrins as Chiral Selectors and Experimental Design Optimization

Melania Cârcu-Dobrin ^{1,*}, Gabriel Hancu ^{1,†}, Lajos Attila Papp ¹, Ibolya Fülöp ² and Hajnal Kelemen ¹

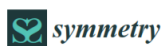
¹ Department of Pharmaceutical and Therapeutic Chemistry, Faculty of Pharmacy, University of Medicine, Pharmacy, Science and Technology “George Emil Palade” of Targu Mures, 540142 Targu Mures, Romania; gabriel.hancu@umfst.ro (G.H.); lajos.papp@umfst.ro (L.A.P.); hajnal.kelemen@umfst.ro (H.K.)

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13. **Milan A.** Hancu G. Lupu D. **Budău M.** Garaj V. Kelemen H. *Venlafaxine chiral separation by capillary electrophoresis using cyclodextrin derivatives as chiral selector and experimental design method optimization*. *Symmetry*, 2020, 12(5):849, FI: 2,645 (Q2).



Article

Venlafaxine Chiral Separation by Capillary Electrophoresis Using Cyclodextrin Derivatives as Chiral Selector and Experimental Design Method Optimization

Andreea Milan ¹, Gabriel Hancu ^{1,*}, Daniela Lupu ¹, Monica Budău ¹, Vladimir Garaj ² and Hajnal Kelemen ¹

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14. **Budău M.** Hancu G. Muntean D.L. Papp L.A. Cârje A. Garaj V. *Enantioseparation of citalopram enantiomers by capillary electrophoresis: method development through experimental design and computational modelling*. Chirality, 2020, 32(8): 1119-1128; doi: 10.1002/chir.23255, FI: 2,437 (Q2)

REGULAR ARTICLE

WILEY

Enantioseparation of citalopram enantiomers by capillary electrophoresis: Method development through experimental design and computational modeling

Monica Budău¹ | Gabriel Hancu¹ | Daniela Lucia Muntean² |
Lajos Attila Papp¹ | Anca Gabriela Cârje² | Vladimir Garaj³

15. **Papp L.A.** Foroughbakhshfasaei M. Fiser B. Horváth P. Kiss E. Sekkoum K. Gyéresi Á. Hancu G. Noszál B. Szabó Z.I. Tóth G. *Reversed-phase HPLC enantioseparation of pantoprazole using a teicoplanin aglycone stationary phase – Determination of the enantiomer elution order using HPLC-CD analyses*. Chirality, 2020, 32(2): 158-167; doi: 10.1002/chir.23146, FI: 2,437 (Q2)

16. **Cârcu-Dobrin M. Sabău A.** Hancu G. Gyéresi Á. Rusu A. Kelemen H. Papp L.A. Cârje A. *Chiral discrimination of amlodipine from pharmaceutical products using capillary electrophoresis*. Brazilian Journal of Pharmaceutical Sciences, 2020, 56:e18259, FI: 0,814.

17. **Papp L.A.** Hancu G. Gyéresi Á. Kelemen H. Szabó Z.I. Noszál B. Dubský P. Tóth G. *Chiral separation of lansoprazole and rabeprazole by capillary electrophoresis using dual cyclodextrin systems*. Electrophoresis, 2019, 40: 2799-2805; doi: 10.1002/elps.201900107, FI: 3,081 (Q2)

Electrophoresis 2019, 00, 1–7

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Pavel Dubský⁴
Gergő Tóth³

Research Article

Chiral separation of lansoprazole and rabeprazole by capillary electrophoresis using dual cyclodextrin systems

18. **Sarkany A.** Hancu G. Cârje A. Drăguț C. Papp L.A. *Chiral separation of tramadol enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors and experimental design method optimization*. Chemical Papers, 2019, 73, 2363-2370, FI: 1,246.



Chiral separation of tramadol enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors and experimental design method optimization

Anita Sarkany¹ · Gabriel Hancu¹ · Anca Cârje² · Claudiu Drăguț¹ · Lajos Attila Papp¹

19. **Papp L.A.**, Gyéresi Á. Hancu G. Mircia E. Kelemen H. *Development of a generic method for the determination of proton-pump inhibitors by capillary zone electrophoresis*. Brazilian Journal of Pharmaceutical Sciences, 2019, 55: e17786; doi: 10.1590/s2175-97902019000117786, ISSN 1984-8250, eISSN 2175-9790, FI: 0,814.
20. Hancu G. **Toncean A.** Podar D. **Sarkany A.** **Drăguț C.** Barabás E. *Simultaneous determination of anthelmintic drugs by capillary electrophoresis using cyclodextrins as buffer additives*. SN Applied Sciences, 2019, 1:478.
21. **Cârcu-Dobrin M.** **Budău M.** Hancu G. Gagyı L. Rusu A. Kelemen H. *Enantioselective analysis of fluoxetine in pharmaceutical formulations by capillary zone electrophoresis*. Saudi Pharmaceutical Journal, 2017, 25, 397-403, FI: 3,11 (Q2).



ORIGINAL ARTICLE

Enantioselective analysis of fluoxetine in pharmaceutical formulations by capillary zone electrophoresis



Melania Cârcu-Dobrin^a, Monica Budău^a, Gabriel Hancu^{a,*}, Laszlo Gagyı^b,
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^a Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Medicine and Pharmacy of Targu Mures,
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22. **Budău M.** Hancu G. Szabó ZI. Kelemen H. Rusu A. Muntean DL. Cârje AG. *Captisol® as chiral selector in capillary electrophoresis of non-acidic drugs*. Journal of the Chilean Chemical Society, 2017, 62(3):3566-3571, FI: 0,463.
23. **Stăcescu Ș.** Hancu G. Gagyı L. **Soare R.M.** Kelemen H. *Simultaneous determination of hydrochlorthiazide and telmisartan from pharmaceutical preparations using capillary electrophoresis*. Studia Chimica UBB, 2017, LXII, 2, 189-198, FI: 0,305.
24. Mircia E. Hancu G. **Nițu O.** Kelemen H. **Cârcu-Dobrin M.** Gâz ȘA. Balaci T. *Simultaneous determination of fibrates by micellar electrokinetic capillary chromatography*. Farmacia, 2017, 65(1), 109-113, FI: 1,507.
25. Hancu G. **Neacșu A.** **Papp L.A.** Ciurba A. *Simultaneous determination of amoxicillin and clavulinic acid in pharmaceutical preparations by capillary electrophoresis*. Brazilian Journal of Pharmaceutical Sciences, 2016, 52(2): 281-286, FI: 0,474.



26. Hancu G. **Hilochie A. Vlad R.A.** Cârje A. Tero-Vescan A., *Enantiomeric separation of sibutramine by capillary zone electrophoresis*. Journal of the Brazilian Chemical Society, 2016, 26(7): 1116-1120, FI: 1,198.
27. **Modroiu A.** Hancu G. Vlad R.A. **Stăcescu Ș.** Soare R. Kelemen H. *Simultaneous determination of amlodipine and telmisartan from pharmaceutical products by capillary electrophoresis*, Current Issues in Pharmacy and Medical Sciences. 2016. 29(1): 42-45.

BDI articles (2016-2026)

1. **Matean M.** Cârje A.G. Hancu G. *Reverse-phase HPLC enantioseparation of nonsteroidal anti-inflammatory drugs using polysaccharide-based chiral selectors*, Acta Biologica Marisiensis, 2026, 9(2): 17-32, doi: 10.62838/abmj-2026-0009.
2. **Uilăcan A. Stroia D.G.** Hancu G. Determination of caffeine by micellar electrokinetic chromatography in different beverages Acta Medica Marisiensis, 2024, 70(3): 194-199, doi: 10.2478/amma-2024-0026
3. Mircia E. Hancu G. Rusu A. **Cazacu A.** Balaci T. **Soare R.** *Determination of HMG-CoA reductase inhibitors by micellar electrokinetic chromatography*, Acta Medica Marisiensis, 2016, 62(2): 187-191, doi: 10.1515/amma-2016-0006

Papers presented at scientific meetings by students member of the scientific research group (student/PhD student name is highlighted):



universität
wien



24th International Symposium and Summer School on Bioanalysis (24ISSSB)

July 5–14, 2026

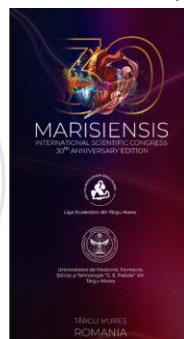
1. **Gliga E. Stroia D.G.** Hancu G. Capillary electrophoresis approaches for the simultaneous analysis of dapagliflozin and metformin, 24th International Symposium and Summer School on Bioanalysis (24ISSSB), 5–14 Iulie, 2026, Universitatea din Viena (Austria), Abstract Book, 104.
2. **Uilăcan A.** Hancu G. Azevedo R. Almeida A. Decoding the elemental fingerprint of Romanian wines: a preliminary ICP-MS investigation, 24th International Symposium and Summer School on Bioanalysis (24ISSSB), 5–14 Iulie, 2026, Universitatea din Viena (Austria), Abstract Book, 111.



International Congress for Students, Young Doctors and Pharmacists MARISIENSIS

Târgu Mureș, Romania
20th-24th of May 2026

3. **Gliga E.** Hancu G. Simultaneous determination of dapagliflozin and metformin in pharmaceutical formulations using micellar electrokinetic chromatography, International Congress for Students, Young Doctors and Pharmacists MARISIENSIS, Târgu Mureș, Romania, 20-24 Mai, 2026, Acta Medica Marisiensis, Book of Abstracts, 465 – **premiul I.**



SIMULTANEOUS DETERMINATION OF DAPAGLIFLOZIN AND METFORMIN IN PHARMACEUTICAL FORMULATIONS USING MICELLAR ELECTROKINETIC CHROMATOGRAPHY

Ecaterina Gliga¹, Hancu Gabriel²

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Background: Fixed-dose combinations of antidiabetic agents with complementary mechanisms are widely used in the modern treatment of type 2 diabetes mellitus to improve glycemic control and simplify therapy. One such combination includes dapagliflozin (DAPA), a sodium-glucose cotransporter 2 (SGLT2) inhibitor, and metformin (MET), a biguanide antidiabetic agent that reduces hepatic glucose production and improves insulin sensitivity. Reliable analytical methods are therefore required for the quality control and accurate dosage verification of these formulations. Capillary electrophoresis (CE) provides an efficient analytical method for the analysis of pharmaceuticals in fixed-dose combinations due to its high separation efficiency, short analysis time, and low consumption of reagents and organic solvents. **Objective:** The aim of this study was to develop and validate a rapid and efficient CE method for the simultaneous determination of DAPA and MET in fixed-dose formulations and to demonstrate its applicability for routine quality control. **Material and methods:** Due to the large differences in polarity between DAPA and MET, conventional capillary zone electrophoresis (CZE) did not provide adequate separation, whereas MEKC using sodium dodecyl sulfate (SDS) micelles enabled effective separation through differential partitioning of the analytes between the micellar and aqueous phases. A MEKC method was developed and optimized using a design-of-experiments (DoE) approach and subsequently validated according to standard analytical parameters. **Results:** The combination of preliminary OFAT (one-factor-at-a-time) screening and multivariate optimization using a Box-Behnken experimental design (BBD) enabled the identification of optimal electrophoretic conditions. Optimal separation was achieved using a 25 mM borax background electrolyte (pH 9.3) containing 38 mM SDS, applied voltage of 28 kV, capillary temperature of 25 °C, hydrodynamic injection 50 mbar/sec and UV detection at 210 nm. Under these conditions, DAPA and MET were baseline separated in less than 7 min, exhibiting good peak symmetry and stable current values. The method was validated in terms of accuracy, linearity, precision (repeatability and intermediate precision), and robustness, demonstrating satisfactory analytical performance for quantitative analysis. Application of the method to commercial pharmaceutical formulations confirmed its suitability for the quantitative determination of DAPA and MET in both single-component and fixed-dose combinations without interference from excipients. **Conclusions:** The optimized MEKC method offers a rapid and environmentally friendly approach for the simultaneous determination of DAPA and MET in fixed-dose formulations for routine pharmaceutical quality control.

Keywords: dapagliflozin, design of experiments, metformin, micellar electrokinetic chromatography

4. **Matean M.** Cârje A.G. Hancu G. Enantioseparation of nonsteroidal anti-inflammatory drugs by HPLC using polysaccharide-based chiral selectors, International Congress for Students, Young Doctors and Pharmacists MARISIENSIS, Târgu Mureș, Romania, 20-24 Mai, 2026, Acta Medica Marisiensis, Book of Abstracts, 479 – **premiul III.**



5. **Mircia E.** **Uilăcan A.** Hancu G. Aplicarea cromatografiei capilare electrocinetice micelare la determinarea rapidă a fibraților structural înrudiți (Micellar electrokinetic capillary chromatography approach for the rapid determination of structurally related fibrates), Congresul Național de Farmacie, ediția a XX-a, Târgu Mureș, 24-26 septembrie, 2025, volum de rezumate, 58, ID: 232.

6. **Uilăcan A.** Rusu A. Hancu G. Compușii polifenolici din vinul roșu: compoziție, impact asupra sănătății, perspective (Polyphenolic Compounds in Red Wine: Composition, Health Impacts, Perspectives), Congresul Național de Farmacie, ediția a XX-a, Târgu Mureș, 24-26 septembrie, 2025, volum de rezumate, 143, ID: 212 - – **premiul II.**

23rd International Symposium and Summer School on Bioanalysis

7. **Uilăcan A.** Kelemen H. Székely-Szentmiklósi B. Hancu G. Electrophoretic and chromatographic approaches to wine polyphenol analysis: advances in profiling, quality assessment, and



authentication, 23rd International Symposium and Summer School on Bioanalysis, 6-15 Iulie 2025, Zagreb (Croatia), Book of Abstracts, 98.

**21st INTERNATIONAL SYMPOSIUM AND
SUMMER SCHOOL ON BIOANALYSIS
(21STISSB)**

10-15 July 2023
Târgu Mureș, Romania

8. **Modroiu A.** Hancu G. Marzullo L. Orlandini S. Gotti R. Furlanetto S. Development of a capillary electrophoresis method for the impurity profiling of omeprazole using quality by design methodology, 21st International Symposium and Summer School on Bioanalysis (21stISSB), 10-15 Iulie 2023, Târgu Mureș, Acta Medica Marisiensis, 69(S5): 27.
9. **Papp L.A.** Székely-Szentmiklósi B. Szabó Z.I. Tóth G. Kraszni M. Hancu G. Determination of enantiomeric purity of vildagliptin by capillary electrophoresis, 21st International Symposium and Summer School on Bioanalysis (21stISSB), 10-15 Iulie 2023, Târgu Mureș, Acta Medica Marisiensis, 69(S5): 31.
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11. **Milan A.** Hancu G. Venlafaxine enantioseparation by capillary electrophoresis using cyclodextrins as chiral selectors and experimental design method optimization, Marisiensis, 25-29 martie 2020, Acta Medica Marisiensis, 66(3); 77.



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