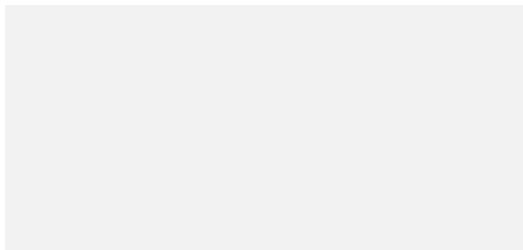


INFORMAȚII PERSONALE

ZAMFIR ALINA DIANA



Septembrie 1992 –Septembrie
1999

Activități specifice învățământului superior

Octombrie 1999
-Septembrie 2001

Activități specifice cercetării

Octombrie 2001
-Octombrie 2006

Activități specifice învățământului superior și cercetării

Septembrie 1995 - prezent

Institutul Național de Cercetare-Dezvoltare pentru Electrochimie și Materie Condensată,
Timișoara

activitati de cercetare in domeniul spectrometrie de masa biomedicale
 conducere de proiecte de cercetare
 infiintare laborator de spectrometrie de masa biomedicala
 elaborare articole stiintifice, prezentari la conferinte internationale
 conducere grup de cercetare
 activitati de organizare si conducere a cercetarii ca membru in consiliul stiintific al INCEMC

Activități specifice cercetarii

Februarie 2005- prezent

Lector asociat, Conferentiar si Profesor Universitar titular (din 2008)

Universitatea Aurel Vlaicu din Arad, Departamentul de Stiinte Tehnice si Naturale, FIATPM

Susținerea de cursuri, seminarii și lucrări practice la studii de licență și masterat, disciplinele Analiza Fizico-Chimice, Metode Fizico-Chimice de Analiza, Analiza Instrumentala, Fizica, Metode spectrale de Analiză a Alimentelor

conducere lucrari de licență și dizertație
 elaborare carti, materiale didactice
 activitati de cercetare in domeniul spectrometrie de masa biomedicale
 conducere de proiecte de cercetare
 infiintare laborator de modelare și analiza a sistemelor biologice
 elaborare articole stiintifice, prezentari la conferinte internationale
 conducere grup de cercetare (incluzand și studenți din anii II, III și masteranzi)

Activități specifice învățământului superior și cercetarii

Martie 2008- Iunie 2015

Prorector pentru Relatiile Internationale

Universitatea Aurel Vlaicu din Arad

coordonare la nivel de universitate a proiectelor și programelor internationale
 stabilirea și dezvoltarea strategiei de internationalizare a universitatii
 coordonare la nivel de universitate a schimburilor academice internationale și a acreditărilor nationale și internationale
 reprezentarea universitatii, alături de rector, în relația cu MEC, UEFISCDI, ARACIS, ANCS, EUA, CNR, Liga Studentilor, organismele non-guvernamentale nationale și internationale, societatile academice nationale și internationale, societatea civila, mass-media
 organizare de conferinte, stabilirea de parteneriate internationale ale universitatii

Activități de conducere specifice învățământului superior

Decembrie 2013 -prezent

Conducator de doctorat, Profesor Universitar asociat

Universitatea de Vest din Timisoara, Facultatea de Fizica

conducere teze de doctorat (doctoranzi: Laurentiu Popescu, Marius Trion, Adrian Robu, Raluca Ica)
 conducere teze de doctorat în co-tutela cu UMFVB Prof. Ligia Petrica și Prof. Constantin Ilie (doctoranzi: Alina Secara, Anca Simulescu, Irma Cozma).
 introducerea disciplinei noi: Spectrometrie de Masa în Biomedicina, curs și laborator (Anul I, Master, Fizica Aplicata în Medicina)
 predare: Biofizica generala (anul III Fizica Medicala, studii de licență), Spectrometrie de Masa în Biomedicina (anul I, FAM, Master)
 activitati de cercetare cu doctoranzii

Activități didactice și de cercetare specifice învățământului superior

EDUCAȚIE ȘI FORMARE

Iunie 2013 Abilitare in Fizica

Universitatea de Vest din Timisoara

Atestat de abilitare in domeniul Fizica, OM 5633 MD/11.12. 2013

Decembrie 2005 Abilitare in Biofizica

Universitatea Wilhelm de Westfalia din Münster, Germania, Facultatea de Medicina, Departamentul de Biomedicina Analitica, Institutul de Fizica Medicala si Biofizica

- Diploma de abilitare: die Venia Legendi für das Fach Biophysik, Fachbereich 5, W.W. Universität Münster/14.02. 2006

1998-2001 Doctorat in Fizica

Universitatea Babes-Bolyai din Cluj-Napoca, Facultatea de Fizica

- Domeniul Fizica, diploma de doctor in Fizica, seria C, Nr. 0002178, in baza OM 5285 din 28. 12. 2001

Licenta in Fizica (cu directie de aprofundare)

1987-1992 Universitatea de Vest din Timisoara

- Licentiat in Fizica, directia de aprofundare Corp Solid, diploma de licenta seria K, Nr. 13094/10 08. 10992

COMPETENTE PERSONALE

Limba(i) maternă(e) Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Limba engleza	C2	C2	C2	C2	C2
Limba germana	C1	C1	C1	C1	C1
Limba italiana	B2	B2	B1	B1	B1
Limba franceza	B1	B2	B1	B1	B1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

Competențe de comunicare prin experiența dobândită ca:
profesor universitar și cercetător în Germania și România, dublu abilitat
prorector al Universității Aurel Vlaicu din Arad
cercetător și membru al consiliului științific al INCENM Timisoara
în cadrul a 265 de conferințe științifice prezentate în Europa, America, Japonia, Canada, Israel, Emiratele Arabe
Visiting Profesor în Germania și SUA
expert evaluator al CNCS
membru în comisia CNATDCU de analiză a contestațiilor, domeniul Fizică
conducător de doctorat și membru în diferite comisii științifice
membru CNATDCU, Panelul Științe Exacte, 2020

Competențe organizaționale/manageriale

Prorector al Universității Aurel Vlaicu din Arad
Președinte al Societății Române de Spectrometrie de Masă
Director sau responsabil echipă parteneră în 16 ganturi naționale și internaționale câștigate prin competiție
Mentor în grant postdoctoral câștigat prin competiție națională
Leader de grup de cercetare
Inițierea și organizarea a 3 laboratoare noi de cercetare perfect funcționale
Introducerea unei direcții noi de cercetare în România

Competențe dobândite la locul de muncă

- Cunoașterea detaliată (ca fostă și/sau prezenta parte integrantă) a sistemelor de învățământ superior și cercetare în domeniul științelor naturii din Europa și SUA;
- Cunoașterea detaliată a cerințelor și nivelului de performanță din UE în învățământul superior și cercetare ce trebuie atins într-o carieră universitară;
- Cunoașterea principiilor, metodelor și mecanismelor de lucru în grupuri internaționale și multiculturale;
- Adaptabilitate rapidă, versatilitate într-un mediu universitar nou, într-un colectiv nou național sau internațional, pentru lucrul în echipe noi, cu strategii noi;
- Cunoașterea strategiilor de stabilire a parteneriatelor la nivel național, dar mai ales, la nivel internațional în domeniul *higher education* și cercetare;
- Realizarea de parteneriate cu universități, organizații și societăți profesionale din țară și străinătate în consorții multidisciplinare;
- Cunoașterea de conducere a unor colective de lucru, a gestionării judicioase a fondurilor publice sau private destinate învățământului superior sau cercetării;

Competențe informatice

Microsoft Office, Mass Lynx, ChipSoft, Compass, XMass, Excel, TableCurve, MathCad, Mascot etc.

Permis de conducere

Categoria B

INFORMATII SUPLIMENTARE

Hobby – muzica clasica; literatura

Conferințe

Seminarii

Premii

Reprezentare internațională

- 265 de prezentari la conferinte stiintifice din tara si strainatate precum SUA (New York, Boston, Philadelphia, Chicago, Indianapolis, Orlando, San Antonio, Denver, San Diego, San Francisco, Nashville, New Jersey, Seattle, New Orleans), Canada, Australia, Japonia, Germania, Franta, Italia, Elvetia, Austria, Grecia, Suedia, Norvegia, Polonia, Slovenia, Ungaria, Croatia, Emiratele Arabe, Israel, la multe dintre conferinte fiind chair de sectiune. (v. anexa, lista de lucrari)
- 115 articole publicate in extenso, 108 publicatii in WEB of Science, 96 de articole publicate in extenso in reviste cu factor de impact (78 ca autor principal, prim sau corespondent), 12 capitole de carte in tratate internationale de prestigiu (Ed. Springer, Humana Press, IGI Global, RSC, Apple Academic Press) (v. anexa, lista de lucrari);
- **H index 28; 2150 citari**

2011: **Premiul I.G. Murgulescu al Academiei Romane** pentru grupul de lucrari: Spectrometria de masa aplicata la studiul macromoleculelor biologice. (sectiunea Stiinte Chimice)

2007: **premiul III al ANCS Cercetare de Excelenta**, pentru rezultatele din proiectul complex (VIASAN): DETERMINAREA EXPRESIEI GLICOSFINGOLIPIDELOR COMPLEXE IN SISTEMUL NERVOS CENTRAL PRIN DISPOZITIVE DE MICROCHIPURI INTEGRATE POLIFUNCTIONALE CUPLATE CU SPECTROMETRIE DE MASA DE INALTA PERFORMANTA (CE Ex. 111)

2008: **Premiul Academiei de Stiinte Medicale (VIASAN)** pentru lucrarea: Investigation of novel under- and over-sulfated regions in decorin glycosaminoglycans by electrospray ionization collision-induced dissociation multistage mass spectrometry

2014: **Premiul Profesor Bologna** acordat de Alianta Nationala a Organizatiilor Studentesti din Romania, ANOSR, Bucuresti

2007: **Premiul Editurii Elsevier** pentru articolul Recent advances in sheathless interfacing of capillary electrophoresis and electrospray ionization mass spectrometry, A. D. Zamfir J. Chromatogr. A 1159, 2–13, 2007

2002: „**Outstanding young researchers**” Award in the field of Glycobiology (2002), al Societatii Americane de Glicobiologie, Boston, MA, USA, Nov., 2002

2010: **Premiul Steinbeis-Löhn** al Fundatiei Steinbeis Germania (2010) pentru rezultatele din proiectul ESTABLISHMENT AND VALIDATION OF DIAGNOSTIC SCREENING METHODOLOGY OF PATIENTS WITH LYSOSOMAL STORAGE DISEASES (LSDS) USING LC-MSMS TECHNOLOGY; Contract No. 0915_2009_GN1P2

2006: **Venia Legendi in Biofizica, premiul Frauenhabilitation**, pentru teza de abilitare la Universitätsklinikum Münster, Germania, Apr., 2006

2006-2015 **Visiting Professor la Universitatea din Konstanz**, Germania, Departamentul Analytical Chemistry and Biopolymer Analysis; Curs (Schwerpunktkurs): Proteomics, Biological Mass Spectrometry

2015-prezent, **Visiting Professor la Clarkson University**, Department of Chemistry and Biomolecular Science, NY, USA. Curs, seminarii: Glycomics, glycoproteomics and mass spectrometry, microfluidics-mass spectrometry; mass spectrometry of proteoglycans; Walsh Seminar: Modern mass spectrometric approaches for biomarker discovery.

Presedinte, Societatea Romana de Spectrometrie de Masa (2009-prezent)

Lectorat la Scoala Normala Superioara Bucuresti in cadrul masterului de chimie-biologica, curs: Biological Mass Spectrometry-Applications in Post-Genome Era;

Membru al asociatiilor profesionale: Societatea Germana de Spectrometrie de Masa, Societatea Americana de Spectrometrie de Masa, Societatea Americana de Glicobiologie, Societatea Romana de Spectrometrie de Masa, Societatea Israeliana de Spectrometrie de Masa, Societatea Nationala de Biologie Celulara

Referent la 33 de reviste cu factor de impact din strainatate

Editor: Mass Spectrometry in Life Safety, Springer, 2008

ANEXE

- Anexa 1 – Detalierea proiectelor relevante
- Anexa 2 – Listă publicatii

Anexa 1 Proiecte nationale si internationale castigate prin competitie:

1. 2003/2004, AT CNCSIS PROIECT 697 DEZVOLTAREA, IMPLEMENTAREA SI OPTIMIZAREA DE NOI TEHNICI SI METODE DE CUPLAJ DIRECT ELECTROFOREZA CAPILARA/SPECTROMETRIE DE MASA (CE/MS). APLICATII IN ANALIZE BIOFIZICE SI BIOMEDICALE. Valoare: 32850 lei. **Director**
2. 2004/2005, AT CNCSIS PROIECT 697 CONTINUARE (prin competitie noua): DEZVOLTAREA, IMPLEMENTAREA SI OPTIMIZAREA DE NOI TEHNICI SI METODE DE CUPLAJ DIRECT ELECTROFOREZA CAPILARA/SPECTROMETRIE DE MASA (CE/MS). APLICATII IN ANALIZE BIOFIZICE SI BIOMEDICALE. Valoare: 32850 lei. **Director**
3. 2005/2008 ANCS Cercetare de excelenta, CE.Ex. nr. 14 modul I Proiecte Complexe: STUDIUL PRIN SPECTROMETRIE DE MASA DE INALTA PERFORMANTA AL GANGLIOZIDELOR IN REGIUNI DEFINITE ALE CREIERULUI UMAN: COMPOZITIE, STRUCTURA SI INTERACTIUNI FUNCTIONALE. valoare: 1.500. 000 lei; **Director**
4. 2006/2008 ANCS Cercetare de excelenta, CE.Ex. Nr. 98 modul III: INTEGRAREA UNUI CENTRU ROMAN DE SPECTROMETRIE DE MASA BIOMEDICALA DE INALTA PERFORMANTA IN ARIA DE CERCETARE INTERNATIONALA SI EUROPEANA, valoare 200.000 lei; **Director**
5. 2011/2015 CNCS-UEFISCDI-PCE-**Idei**-2011-0047; DEVELOPMENT OF CHIP-BASED NANO-ELECTROSPRAY IN COMBINATION WITH ELECTRON TRANSFER DISSOCIATION MASS SPECTROMETRY FOR TOP-DOWN GLYCOPROTEOMICS, valoare 1.500. 000 lei; **Director**
6. 2017-2019 ANCS-UEFISCDI-PN-III-P4-PCE-**Idei**-2016-0073; CONTRACT NR. 48; DEZVOLTAREA SPECTROMETRIEI DE MASA CU MICROFLUIDICE PENTRU ANALIZA INTERACTIUNILOR STRUCTURALE SI FUNCTIONALE ALE GANGLIOZIDELOR; valoare 850.000 lei; **Director**
7. 2017-2020 ANCS-UEFISCDI PN-III-P1-1.2-PCCDI-2017-0046; DEZVOLTAREA UNOR PLATFORME AVANSATE DE ANALIZA SI MODELAREA SISTEMELOR BIOLOGICE COMPLEXE; valoare 5.287.500 lei; **Director**
8. 2020/2022 ANCS-UEFISCDI PN-III-P2-2.1-PED-2019-0799; PLATFORMA INTEGRATA MICROFLUIDICE-SPECTROMETRIE DE MASA CU MOBILITATE IONICA PENTRU GLICOLIPIDOMICA CREIERULUI UMAN valoare 600.000 lei; **Director**
9. 2009/2010 Proiect 0915_2009_GN1P2; GENZYME, GERMANIA, CEE GMBH; ESTABLISHMENT AND VALIDATION OF DIAGNOSTIC SCREENING METHODOLOGY OF PATIENTS WITH LYSOSOMAL STORAGE DISEASES (LSDS) USING LC-MSMS TECHNOLOGY, valoare 45.040 Euro; **Co-director**
10. U.E. FP7 PIRSES-GA-2010-269256; INTEGRATING HIGH PERFORMANCE MASS SPECTROMETRY TOOLS WITH APPLICATIONS IN LIFE SCIENCE Acronym: MS-LIFE; valoare 319.200 Euro; **Responsabil echipa partenera P4**
11. 2006/2008 ANCS Cercetare de excelenta, CE.Ex. Nr. 111 modul I: DETERMINAREA EXPRESIEI GLICOSFINGOLIPIDELOR COMPLEXE IN SISTEMUL NERVOS CENTRAL PRIN DISPOZITIVE DE MICROCHIPURI INTEGRATE POLIFUNCTIONALE CUPLATE CU SPECTROMETRIE DE MASA DE INALTA PERFORMANTA, valoare: 1.500. 000 lei; **Responsabil echipa partenera P1**
12. 2007/2010 ANCS PNCD II Nr. 41-001: IDENTIFICAREA SI CARACTERIZAREA BIOMARKERILOR CANCERULUI DE CREIER EXPRESATI IN SER SI FLUID CEFALORAHIDIAN PRIN METODE GLICOMICE MODERNE BAZATE PE SPECTROMETRIE DE MASA, valoare: 2.000. 000 lei; **Responsabil echipa P1**
13. 2012/2016 ANCS-UEFISCDI-PN-II-PT-PCCA-2011-3.1-0187; CONTRACT NR.142; OBTINEREA POLIZAHARIDELOR FUNCTIONALIZATE PENTRU APLICATII IN BIOMEDICINA SI BIOTEHNOLOGII; valoare 2.000.000 lei; **Responsabil echipa partenera P1**

14. 2014/2016 ANCS-UEFISCDI-PN-II-PT-PCCA-2013-4-0191, CONTRACT NR. 118; INTERACTOMICA GALACTOZAMINOGLICANILOR ÎN MATRICEA EXTRACELULARĂ PRIN SPECTROMETRIE DE MASĂ AVANSATĂ valoare 1.250.000 lei; **Responsabil echipa partenera P1**
15. 2016 ANCS-UEFISCDI PN-III-P1-1.1-MD Proiecte mobilitate cercetatori din diaspora, Prof. Dr. Costel Darie, NY, USA, valoare 9780 lei; **Responsabil proiect mobilitati**
16. PN-III-P1-1.1-PD2016-0256 Dezvoltarea spectrometriei de masă cu mobilitate ionică pentru analiza gangliozidelor umane și a interacțiilor acestora; proiect postdoctoral; director proiect, Dr. Mirela Sarbu; **Mentor**
17. 2009-2013- FP7- NMP-2008-LARGE-2, PROIECT NO 228827- FOLATE-BASED NANOBIODEVICES FOR INTEGRATED DIAGNOSIS/THERAPY TARGETING CHRONIC INFLAMMATORY DISEASES (director proiect: Artur Cavaco-Paolo, Minho University of Portugal; responsabil echipa nationala, Florentina-Daniela Munteanu); **membru colectiv international**
18. 2017-2019 CSF-2017-2019-Molecular markers of neuronal vulnerability, adaptation and plasticity in acute and chronic brain lesion, acronim „NeuroReact“, Croatian Scientific Foundation; directori proiect: Kristina Mlinac Jerković, Svjetlana Kalanj-Bognar and Katarina Ilic; Laboratory for Molecular Neurobiology and Neurochemistry, Croatian Institute for Brain Research, School of Medicine, University of Zagreb; **membru colectiv international**
19. 2010-2013 Sectoral Operational Program Increase of Economic Competitiveness, Priority Axis 2 - Competitiveness through RDI, Operation 2.1.2: "High-Level Scientific Projects CD with Specialists from Abroad": Liberian Plants - Strategic Renewable Resources for the Economy European Union - BASTEURES; **membru colectiv national**
20. 2014-2015 - Research Center for Technical and Natural Sciences ", project cofinanced by the European Union through the European Regional Development Fund under the Sectoral Operational Program " Increasing Economic Competitiveness ": INVESTMENTS FOR YOUR FUTURE; **membru colectiv national**
21. 2011-2014 PN-II-RU-TE-2011-3-0008 Glycomics of brain glycosaminoglycans by advanced mass spectrometric and related hyphenated techniques, director proiect Dr. Flangea Corina; **membru colectiv national**
22. 2007 Grant NATO COLLABORATIVE PROGRAMMES SECTION; ADVANCED RESEARCH WORKSHOP „APPLICATION OF MASS SPECTROMETRY IN LIFE SAFETY“, valoare 38.000 Euro; **Co-director grant workshop**

Anexa 2 – Publicații

Lista de lucrari

Prof. Dr. Alina-Diana Zamfir

TEZA DE DOCTORAT

Ionizarea prin electrospray in spectrometria de masa, 2001, conducator stiintific: Prof. Dr. Nicolae Palibroda; FACULTATEA DE FIZICA, Universitatea Babes-Bolyai, Cluj-Napoca.

TEZA DE ABILITARE (GERMANIA)

High Performance Electrospray Mass Spectrometric Glycoscreening in Biomedicine, 2005, FACULTATEA DE MEDICINA, UNIVERSITATEA DIN MÜNSTER, GERMANIA.

TEZA DE ABILITARE (ROMANIA)

Development of Electrospray Mass Spectrometry-Based Methods for Glycan Analysis in Biomedical Research, 2013, FACULTATEA DE FIZICA, UNIVERSITATEA DE VEST DIN TIMISOARA, ROMANIA.

Carti, Manuale DE SPECIALITATE publicate la edituri din tara

C1. Metode fizice de studiu al materialelor solide. Indrumator de lucrari practice de laborator
M.A. Balint, **A. D. Zamfir**
Tipografia Universitatii de Vest din Timisoara, 1995

C2. Metode fizico-chimice de analiza
A.D. Zamfir, N. Dinca, "Aurel Vlaicu", Univ. Arad Ed., 2005, ISBN: 973-752-012-2

C3. Sisteme avansate de ionizare prin microchip pentru spectrometria de masa si aplicatii
A. D. Zamfir, Ed. Canonica, Cluj-Napoca, 2008, ISBN 978-973-88608-7-2

EDITOR DE CARTE INTERNATIONALA

1. Applications of Mass Spectrometry in Life Safety
 C. Popescu, **A.D. Zamfir**, N. Dinca (editori)
 Ed. *Springer Verlag*, Germania, ISBN 978-1-4020-8810-0 (Print) 978-1-4020-8811-7 (Online), 238 pg., 2008, © *Springer*

CAPITOLE DE CARTI LA EDITURI INTERNATIONALE

1. Protein carbohydrate analysis: gel-based staining, liquid chromatography, mass spectrometry, and microarray screening
 I. Shin, **A. D. Zamfir**, Bin Ye
Methods Mol. Biol. 44, 19-39, 2008; Tissue Proteomics-Pathways, Biomarkers, and Drug Discovery, vol. 44, pg. 19-39, 2008; ISSN: 1064-3745; B. Liu Ed., © *Humana Press Inc.*, Totowa, N.J., USA

2. Structural analysis of chondroitin sulfate disaccharides by electrospray ionization high capacity ion trap mass spectrometry
 A. Muresan, M. Galusca, D. G. Seidler, N. Dinca, **A. D. Zamfir**
 in: Applications of Mass Spectrometry in Life Safety, ISBN 978-1-4020-8810-0; pg. 85-95; 2008, © *Springer*

3. Mapping and sequencing of gangliosides from anencephaly by electrospray ionization high capacity ion trap mass spectrometry
 C. Mosoarca, Ž. Vukelić, **A.D. Zamfir**
 in: Applications of Mass Spectrometry in Life Safety, ISBN 978-1-4020-8810-0; pg. 71-82; 2008, © *Springer*

4. Electrospray Ionization tandem mass spectrometric investigation of essential oils from *Melissa officinalis* (Labiatae Family) and *Pellargonium ssp.* (Geraniaceae Family)
 C. Toma, I.B. Pancan, M. Chirita, F.M. Vata, **A.D. Zamfir**
 in: Applications of Mass Spectrometry in Life Safety, ISBN 978-1-4020-8810-0; pg. 213-220; 2008, © *Springer*

5. Brain chondroitin/dermatan sulfate: from cerebral tissue to fine structure. Extraction, preparation and fully automated chip-electrospray mass spectrometric analysis
A. D. Zamfir, C. Flangea, A.Serb, E. Sisu, L. Zagrean, A. Rizzi, D.G. Seidler
Methods Mol. Biol. 836, 145-159, 2012; Françoise Rédini (ed.), Proteoglycans: Methods and Protocols, Methods in Molecular Biology, vol. 836, DOI 10.1007/978-1-61779-498-8_10, ISSN: 1064-3745; © *Springer*

6. Levansucrases of *Pseudomonas* bacteria: novel approaches for protein expression, assay of enzymes, fructooligosaccharides and heterooligofructans
 T. Alamae, T. Visnapuu, K. Mardo, A. Mae, **A. D. Zamfir**
Carbohydr. Chem. 38, 176–191, 2012, edited by Amelia Pilar Rauter, Thisbe Lindhorst; ISBN: 978-1-84973-439-4 © *The Royal Society of Chemistry, UK*

7. Separation and identification of glycoforms by capillary electrophoresis with electrospray ionization mass spectrometric detection
A. D. Zamfir, C. Flangea, A.Serb, A.-M. Zagrean, A. Rizzi, E. Sisu
Methods Mol. Biol. 951, 145-169, 2013; Jennifer J. Kohler and Steven M. Patrie (eds.), Mass Spectrometry of Glycoproteins: Methods and Protocols, Methods in Molecular Biology, vol. 951, DOI 10.1007/978-1-62703-146-2_11, ISSN: 1064-3745, © *Springer*.

8. Nanochips for mass spectrometry and applications in biomedical research.
A.D. Zamfir
 in: Research Horizons of Nanosystems: Structure, Properties and Interactions, 2014, 386-443, ISBN: 978-1926895-90-1 © *Apple Academic Press*, Ontario-New Jersey, Canada-USA

9. Nanofluidics-based mass spectrometry. Applications for biomarker discovery in lysosomal storage diseases.
 M Sarbu, **A.D. Zamfir**
 in: Nanoparticles: Promises and Risks, 2015, 137-165, ISBN: 978-3-319-11727-0 © *Springer*

10. Sustainable nanosystem development for mass spectrometry. Applications in proteomics and glycomics
 L. Popescu, A.C. Robu, **A.D. Zamfir**
 în: Sustainable Nanosystems Development, Properties and Applications, 2016, 535-568, ISSN: 2327-5448 © *IGI Global*, Hershey, PA, USA

11. Microfluidics-mass spectrometry of protein-carbohydrate interactions: applications to the development of therapeutics and biomarker discovery.
A.D. Zamfir
Methods Mol. Biol. 1647, 109-128, 2017; Lazar I., Kontoyianni M., Lazar A. (eds) Proteomics for Drug Discovery. Methods in Molecular Biology, vol 1647. DOI: 10.1007/978-1-4939-7201-2_7, ISSN: 1064-3745 © *Humana Press*, New York, NY

12. Mass spectrometry for cancer biomarker discovery
Albulescu R., Petrescu A.J., Sarbu M., Grigore A., Ica R., Munteanu C.V.A., Albulescu A., Militaru I. V, **A.D. Zamfir**, Petrescu S., Tanase C.
IntechOpen, 2019 DOI: 10.5772/intechopen.85609

13. A. D. Zamfir, R. Ica, M. Sarbu, Liquid-phase separation methods hyphenated to electrospray ionization mass spectrometry for structural analysis of chondroitin/dermatan sulfate, in "Trends in Liquid-Phase Separation Techniques for Carbohydrate Analysis", Ed. Ziad El Rassi, Editura Elsevier 2020 (sub tipar).

ARTICOLE IN EXTENSO PUBLICATE IN REVISTE INDEXATE ISI CU FACTOR DE IMPACT (#autor corespondent)

1. Capillary electrophoresis and off-line CE/ESI-QTOF tandem MS of carbohydrates

A.D. Zamfir, S. König, J. Althoff, J. Peter-Katalinic

J. Chromatogr. A 895, 291-299, 2000

IF 2.793

2. Glycoscreening by sheathless on-line capillary electrophoresis/electrospray quadrupole time-of flight tandem mass spectrometry

A.D. Zamfir, J. Peter-Katalinic

Electrophoresis 22, 2448-2457, 2001

IF 4.282

3. A capillary electrophoresis and off-line capillary electrophoresis/electrospray ionization quadrupole time-of-flight tandem mass spectrometry approach for ganglioside analysis

A.D. Zamfir, Ž. Vukelić, J. Peter-Katalinić

Electrophoresis 23, 2894-2903, 2002

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R. Ica, A. Petrut, C. V. Munteanu, M. Sarbu, Z. Vukelic, L. Petrica, **A. D. Zamfir**[#]
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M. Sarbu, DE. Clemmer, **A. D. Zamfir**[#]
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R. Ica, A. Simulescu, M. Sarbu, C.V.A. Munteanu, Ž. Vukelić, A. D. Zamfir[#]

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1. N-glycan heterogeneity of cactus glycoproteins induced by tissue culture conditions

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3. Advances in mass spectrometry for glycoscreening and sequencing in biomedical research

A. C. Robu, L. Lupu, R. Aslebagh, **A. D Zamfir**, C. C. Darie

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2. Identification of O-glycans in complex mixtures from urine of patients suffering from Schindler's disease by on-line capillary electrophoresis-electrospray ionization quadrupole time-of-flight tandem mass spectrometry

A.D. Zamfir, D. Schindler, J. Peter-Katalinic

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3. Identification of eicosasaccharide structures in glycosaminoglycan mixtures from human decorin by on-line sheathless capillary electrophoresis/electrospray ionization quadrupole time-of-flight tandem mass spectrometry

A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinic

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4. Glycomics of glycosaminoglycans

A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinic

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5. Glycated peptides induce endothelial dysfunction in the brain vasculature in normoalbuminuric patients with type 2 diabetes mellitus
L. Petrica, A. Vlad, M. Petrica, D.C. Jianu, **A. D. Zamfir**, C. Popescu, G. Gluhovschi et al.
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6. Glycated albumin is toxic for the proximal tubule but spares the glomerular endothelium in normoalbuminuric patients with type 2 diabetes mellitus: a cross-sectional study
A. Vlad, L. Petrica, M. Petrica, D.C. Jianu, G. Gluhovschi, C. Ianculescu, M. Negru, V. Dumitrascu, F. Galadean, **A. D. Zamfir**, C. Popescu, S. Giju, C. Gluhovschi, S. Velciov, O. Milas, C. Balgradean, S. Ursoniu
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1. Capillary Electrophoresis & Mass Spectrometry of Complex Carbohydrates
A.D. Zamfir, S. König, J. Althoff, J. Peter-Katalinić
13th Int. Symp. High Performance Capillary Electrophoresis and Related Microscale Techniques, Saarbrücken, Germany, Feb.20-24, 2000, Book of Abstracts, p. 136,
ORAL PRESENTATION
2. Capillary Electrophoresis and ESI-QTOF Mass Spectrometry for Identification of Carbohydrates
A.D. Zamfir, S. König, S., J. Althoff, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Berlin, Feb 27 - March 1 2000, Book of Abstracts, p.142 POSTER PRESENTATION
3. Strategies for Sequencing Complex Oligosaccharides by Mass Spectrometry
M. Jovanović, B. Maček, D. Šagi, **A.D. Zamfir**, S. König, J. Peter-Katalinić
VIIth International Summer Course on Biophysics, Rovinj, Croatia, Sept.14-25, 2000 POSTER PRESENTATION
4. High Sensitivity Separation and Analysis by Capillary Electrophoresis and Nano Electrospray Mass Spectrometry
A.D. Zamfir, S. König, J. Peter-Katalinić
International Congress on Nanobiotechnology, Munster, Germany, Sept 27-29, 2000
ORAL PRESENTATION
5. Screening of Complex Glycopeptide Mixtures by on-line Capillary Electrophoresis/Electrospray Ionization Time-of-Flight Mass Spectrometry
A.D. Zamfir, S. König, D. Schindler, J. Peter-Katalinić
5th Conference of the American Society of Glycobiology, Boston, MA, USA, Nov 8-12, 2000; Abstract published in *Glycobiology*, 10, 10, 1102, 2000
POSTER PRESENTATION
6. Glycoscreening by on-line Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, J. Peter-Katalinić
14th Int. Symposium On Microscale Separations and Analysis, incl. Genomics and Proteomics, Boston, MA, USA, January 13-18, 2001, Book of Abstracts, p.215
ORAL PRESENTATION
7. Identification of Complex Glycopeptide Mixtures by On-line Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, München, Germany, March 4-7 2001, Book of Abstracts, p.155
POSTER PRESENTATION
8. Capillary Electrophoresis and Off-line Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-Flight Mass Spectrometry of Gangliosides
Ž.Vukelić, **A.D. Zamfir**, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, München, Germany, March 4-7, 2001, Book of Abstracts, p.156
POSTER PRESENTATION
9. Rapid mapping of bacterial peptido-glycans
J. Peter-Katalinić, A. Beckedorf, **A.D. Zamfir**
Technologie Transfer Meeting "Infektionskrankheiten", Frankfurt Airport Conference Center, 21 May 2001
POSTER PRESENTATION
10. Sheathless CE/ESI-QTOF-MS interface for identification of carbohydrates
A.D. Zamfir, J. Peter-Katalinić
The 49th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, May, 27- 31, Chicago,

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ORAL PRESENTATION

11. Glycoproteomics of Hereditary Diseases
J. Peter-Katalinić, T. Marquardt, D. Šagi, **A.D. Zamfir**, D. Schindler
5th International Symposium on Mass Spectrometry in the Health & Life Sciences: Molecular & Cellular Proteomics, San Francisco, CA., USA, Aug. 9-12, 26-30, 2001
ORAL PRESENTATION
12. Capillary Electrophoresis/Electrospray Ionization Time-of-Flight Mass Spectrometry for the Analysis of Neutral and Negatively Charged Carbohydrates
A.D. Zamfir, J. Peter-Katalinić
1st Summer Course on Mass Spectrometry in Biotechnology and Medicine, Dubrovnik, Croatia, Sept. 16-21, 2001
INVITED LECTURE
13. Practical Approach for Identification of Complex Ganglioside Mixtures by High Performance Capillary Electrophoresis-Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry
Ž. Vukelić, **A.D. Zamfir**, J. Peter-Katalinić
1st Summer Course on Mass Spectrometry in Biotechnology and Medicine, Dubrovnik, Croatia, Sept. 16-21, 2001
POSTER PRESENTATION
14. Nanoscale Analysis of Biomolecules by on-line Sheathless Capillary Electrophoresis-Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, J. Peter-Katalinić
International Congress on Nanobiotechnology, Münster, Germany, Sept. 24-25, 2001
POSTER PRESENTATION
15. Identification of O-Glycans in Complex Mixtures from Urine of Patients Suffering from Schindler's Disease by on-line CE-ESI-QTOF MS
A.D. Zamfir, D. Schindler, J. Peter-Katalinić
6th Conference of the American Society of Glycobiology, San Francisco, Ca. USA, Nov. 15-20, 2001
ORAL PRESENTATION
16. Structural identification of Glycosaminoglycans from Bovine Aorta by High performance Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-flight Tandem Mass Spectrometry
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Heidelberg, March 3-6, 2002
ORAL PRESENTATION
17. Structural Characterization of Insect Glycosphingolipids by Nano-Electrospray Ionization Quadrupole time-of-flight Tandem Mass Spectrometry
A. Brodarac, J. Muthing, **A.D. Zamfir**, V. Jäger, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Heidelberg, March 3-6, 2002
POSTER PRESENTATION
18. Characterization of Anionic Glycosaminoglycan Oligosaccharides Derived from Shark Cartilage Degradation by Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, G. Nareyeck, H. Kresse, J. Peter-Katalinić
HPCE 2002, 15th Int. Symposium on Microscale Separations and Analysis, incl. Genomics and Proteomics, Stockholm, Sweden, April 13-19, 2002
POSTER PRESENTATION
19. High Performance Capillary Electrophoresis/ Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry: Application to Glycosaminoglycans from Human Decorin
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinić
Proc. of the 50th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Orlando, FL. USA, June 2- 7, 2002, O709
ORAL PRESENTATION
20. Novel Method for Mapping and Sequencing of Gangliosides by Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, Ž. Vukelić, J. Peter-Katalinić
Proc. of the 50th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Orlando, FL. USA, June 2- 7, 2002, P712
ORAL PRESENTATION

21. Glycomics and Mass Spectrometry
A.D. Zamfir, D. Sagi, M. Mormann, J. Peter-Katalinić
International Conference on Carbohydrates, Cairns, Australia, 6-11 July 2002
ORAL PRESENTATION
22. Capillary Electrophoresis and Nanoelectrospray Ionization Mass Spectrometry on Peptides
L. Bindila, **A.D. Zamfir**, J. Peter-Katalinić
International Anniversary Conference, Timișoara, Romania, July 5, 2002, Pp11
ORAL PRESENTATION
23. On-line Sheathless Capillary Electrophoresis-Nanoelectrospray Mass Spectrometry for Bioanalyses
L. Bindila, **A.D. Zamfir**, J. Peter-Katalinić
International Conference of Nanoanalytics and Advanced Materials, Timișoara, Romania, 9-21 Sept., 2002
ORAL PRESENTATION
24. Massenspektrometrische Untersuchung von Glycosaminoglykanen
J. Peter-Katalinić, **A.D. Zamfir**, M. Mormann, D. Seidler, H. Kresse
SFB 492 Symposium, Universität Münster, Oct. 3, 2002
ORAL PRESENTATION
25. Identification of Eicosasaccharide Structures in Glycosaminoglycans from Human Decorin by online CE/ESI-MS and tandem MS
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinić
7th Conference of the American Society of Glycobiology, Boston, MA, USA, Nov. 9-13, 2002
ORAL PRESENTATION
26. Identification of Oligosaccharides in Glycosaminoglycans from Human Decorin by on-line CE/ESIMS and tandem MS
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinić
XIIIth Joint Meeting on Glycobiology, Raestfeld, Germany, Nov. 21-23, 2002
POSTER PRESENTATION
27. Novel Strategies Employing on-line Sheathless Capillary Electrophoresis Nanoelectrospray Ionization Mass Spectrometry for Glycoscreening
A.D. Zamfir, J. Peter-Katalinić
International Conference of Physics, Timișoara, Romania, Nov.28-29, 2002
INVITED LECTURE
28. Advanced of CE/tandem MS Glycoscreening in Biomedical Research
J. Peter-Katalinić, **A.D. Zamfir**
HPCE 2003, 16th Int. Symposium on Microscale Separations and Analysis, Jan.16-23, 2003, San Diego, CA, USA
ORAL PRESENTATION
29. Considerations of CE-QTOF and FTICR MS for Glycomics of Glycosaminoglycans
J. Peter-Katalinić, **A.D. Zamfir**, M. Mormann, D. Seidler, H. Kresse
5th Iglar MS Tage, Universität Innsbruck, Austria, Feb. 19-21, 2003
ORAL PRESENTATION
30. Capillary Electrophoresis/Electrospray Ionization Mass Spectrometry of Glycoconjugates
A.D. Zamfir
Workshop on Mass Spectrometry of Glycoconjugates at the German Society for Mass Spectrometry Conference, Münster, Germany, 9-12 March, 2003
INVITED LECTURE
31. CE/VE-MS/MS for Structural Analysis of Glycosaminoglycans from Human Skin Fibroblast Decorin
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Münster, Germany, 9-12 March, 2003
ORAL PRESENTATION
32. Sheathless CE/ESI-MS and tandem MS for Biomedical Analysis
A.D. Zamfir, J. Peter-Katalinić
International Symposium on Instrumentalized Analytical Chemistry, Düsseldorf, 25-27 March, 2003
ORAL PRESENTATION
33. Glycomics of Glycosaminoglycans by Capillary Electrophoresis/Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinić
Proc. of the 51st American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Montreal, Canada, 8-12 June, 2003

ORAL PRESENTATION

34. MS to MS/MS Automatic Switching for Glycoscreening in Congenital Disorders of Glycosylation
S. Vakhrushev, **A.D. Zamfir**, J. Peter-Katalinić
Proc. of the 51st American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Montreal, Canada, 8-12 June, 2003
POSTER PRESENTATION
35. Mapping of O-Glycosylated Amino Acids Related to Schindler Disease by Negative Ion Nano ESI FTICR and SORI CID at 9.4 T
M. Froesch, **A.D. Zamfir**, J. Peter-Katalinić
Proc. of the 51st American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Montreal, Canada, 8-12 June, 2003
POSTER PRESENTATION
36. CE-QTOF and FTICR MS for Glycomics of Glycosaminoglycans
A.D. Zamfir, D. Seidler, H. Kresse, M. Mormann, J. Peter-Katalinić
16th International Mass Spectrometry Conference, Edinburgh, Scotland, U.K., Aug. 31-Sept 5, 2003
POSTER PRESENTATION
37. Mapping and Sequencing of Carbohydrates by Fully Automated Chip-Based Nanospray Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D. Zamfir, A. Sterling, S. Vakhrushev, H. Niebel, M. Allen, J. Peter-Katalinić
16th International Mass Spectrometry Conference, Edinburgh, Scotland, U.K., Aug. 31-Sept 5, 2003
ORAL PRESENTATION
38. Capillary Electrophoresis/Electrospray Ionization Mass Spectrometry for Glycoconjugate Analysis
A.D. Zamfir, J. Peter-Katalinić
9th International Summer School on Biophysics and Supramolecular Structure, Rovinj, Croatia, 14-26 Sept. 2003
POSTER PRESENTATION
39. Identification of Glycosaminoglycan Glycoforms by Mass Spectrometry
A.D. Zamfir, D. Seidler, H. Kresse, M. Mormann, J. Peter-Katalinić
Charité-Universitätsmedizin Berlin, Nov. 14, 2003
ORAL PRESENTATION
40. Identification of Sialylated and Sulfated Glycosphingolipids by FTICR MS and SORI CID Tandem MS
L. Bindila, M. Froesch, **A.D. Zamfir**, S. Usuki, R. K. Yu, J. Peter-Katalinić, Ž. Vukelić
XIVth Joint Meeting on Glycobiology, Lille, France, 20-22 Nov. 2003
POSTER PRESENTATION
41. Analysis and Sequencing of Sialylated Glycopeptides from Urine of Patients Suffering from Schindler Disease by NanoESI FTICR SORI CID Tandem MS
M. Froesch, L. Bindila, **A.D. Zamfir**, J. Peter-Katalinić
XIVth Joint Meeting on Glycobiology, Lille, France, 20-22 Nov. 2003
POSTER PRESENTATION
42. Combination of Computational Algorithm and Fully Automated Chip-Based Nanospray Quadrupole Time-of-Flight Tandem Mass Spectrometry for Analysis of Complex Glycoconjugate Mixtures
S. Vakhrushev, **A.D. Zamfir**, A. Sterling, H. Niebel, M. Allen, J. Peter-Katalinić
XIVth Joint Meeting on Glycobiology, Lille, France, 20-22 Nov. 2003
ORAL PRESENTATION
43. Potentials of Modern Mass Spectrometric Methods in Neuroscience Research and Neuropathological Diagnostics: Mapping and Sequencing of Brain Gangliosides
Ž. Vukelić, V. Metelmann-Strupat, **A.D. Zamfir**, L. Bindila, M. Froesch, J. Peter-Katalinić
1st Croatian Neuroscience Meeting, Zagreb, Croatia, Nov. 21-22, 2003
POSTER PRESENTATION
44. Glycomics of Glycosaminoglycans
A.D. Zamfir, D. Seidler, H. Kresse, M. Mormann, J. Peter-Katalinić
8th Conference of the American Society of Glycobiology, San Diego, CA, USA, 3-6, 2003
POSTER PRESENTATION
45. Negative Ion NanoESI FTICR MS of Glycosphingolipids
L. Bindila, M. Froesch, **A.D. Zamfir**, S. Usuki, Ž. Vukelić, R. K. Yu, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Leipzig, Germany, 7-10 March, 2004

POSTER PRESENTATION

46. Microheterogeneity of *N*-Glycoforms in Bovine Serum Transferrin
J. Milosevic, P. Rehulka, L. Bindila, **A.D. Zamfir**, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Leipzig, Germany, 7-10 March, 2004
POSTER PRESENTATION
47. Implementation of Fully Automated Chip-Based NanoElectrospray Mass Spectrometry in Glycomics
A.D. Zamfir, A. Sterling, R. Almeida, M. Allen, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Leipzig, Germany, 7-10 March, 2004
ORAL PRESENTATION
48. Ionization and Fragmentation of Highly Sialylated Glycosphingolipids by FTICR MS
M. Froesch, L. Bindila, Ž. Vukelić, **A.D. Zamfir**, J. Peter-Katalinić
7th European FTMS Conference, Konstanz, Germany, Conference, 28 March-01 April, 2004
POSTER PRESENTATION
49. FTICR of Glycoconjugates
M. Mormann, M. Froesch, L. Bindila, Ž. Vukelić, **A.D. Zamfir**, J. Peter-Katalinić
7th European FTMS Conference, Konstanz, Germany, 28 March-01 April, 2004
POSTER PRESENTATION
50. Fully Automated Chip-Based NanoElectrospray Tandem Mass Spectrometry: A Novel Concept in Glycomics
A.D. Zamfir, R. Almeida, A. Sterling, M. Allen, J. Henion, J. Peter-Katalinić
Proc. of the 52nd American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Nashville, Tennessee, USA, 23-28 May, 2004
KEYNOTE LECTURE
51. Off-line Capillary Electrophoresis/Fully Automated Chip NanoESI QTOF MS for Glycoconjugate Analysis
R. Almeida, L. Bindila, **A.D. Zamfir**, A. Sterling, M. Allen, J. Peter-Katalinić
Proc. of the 52nd American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Nashville, Tennessee, USA, 23-28 May, 2004
POSTER PRESENTATION
52. FTICR MS of Sialylated Gangliosides from Human Brain Biopsies
M. Froesch, Ž. Vukelić, L. Bindila, **A.D. Zamfir**, J. Peter-Katalinić
Proc. of the 52nd American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Nashville, Tennessee, USA, 23-28 May, 2004
POSTER PRESENTATION
53. Structural and Quantitative Analysis of Gangliosides from Gliosarcoma and Meningioma
S. Kalanj-Bognar, Ž. Vukelić, **A.D. Zamfir**, L. Bindila, M. Froesch, J. Peter-Katalinić
Congress of the Croatian Society for Biochemistry and Molecular Biology, Bjelolasica, Croatia, September 30-October 2, 2004
POSTER PRESENTATION
54. Novel Trends in *N*- and *O*-Glycoproteomics
J. Peter-Katalinić, L. Bindila, M. Froesch, M. Mormann, D. Šagi, S. Vakhrushev, **A.D. Zamfir**
3rd Swedish Proteomics Society Symposium, Lund, October 2-5, 2004
ORAL PRESENTATION
55. Fully-Automated chip-Based Nanoelectrospray Tandem Mass Spectrometry of Gangliosides from Human Cerebellum
A.D. Zamfir, L. Bindila, R. Almeida, A. Sterling, Ž. Vukelić, M. Allen, J. Peter-Katalinić
Advion User Meeting, 21th LC/MS Montreux Symposium, Montreux, Switzerland, November 10-12, 2004
INVITED LECTURE
56. Implementation of Chip Electrospray Mass Spectrometry in Structural Glycobiology
M. Froesch, L. Bindila, Ž. Vukelić, J. Peter-Katalinić, **A.D. Zamfir**
15th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereniging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Wageningen, Nederlande, November 29-30, 2004, Glycoconjugate J. 21, 398, 2004
POSTER PRESENTATION
57. Coupling of Fully Automated ChipESI to FT-ICR Mass Spectrometry for High-Performance Glycoscreening and Sequencing
M. Froesch, L. Bindila, G. Baykut, M. Allen, J. Peter-Katalinić, **A.D. Zamfir**
15th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereniging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Wageningen, Nederlande, November 29-30, 2004,

Glycoconjugate J. 21, 404, 2004
 POSTER PRESENTATION

58. Thin Polymer Chip Coupled to Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Glycopeptide Screening
 L. Bindila, M. Froesch, N. Lion, J. S. Rossier, H. H. Girault, **A.D. Zamfir**, J. Peter-Katalinić
 15th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereniging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Wageningen, Niederlande, November 29-30, 2004,
 Glycoconjugate J. 21, 400, 2004
 POSTER PRESENTATION
59. Thin chip polymer microsprays for glycoconjugate analysis of Schindler disease patients
 N. Lion, L. Bindila, M. Froesch, Ž. Vukelić, J. S. Rossier, H. H. Girault, J. Peter-Katalinić, **A.D. Zamfir**
 Jahrestagung der Schweizerischen Proteomgesellschaft, SPS'04 Inselspital Bern, Switzerland, December 6-8, 2004
 POSTER PRESENTATION
60. Chip-Based Ionization Mass Spectrometry for Glycoscreening in Biomedical Research
A.D. Zamfir, Ž. Vukelić, L. Bindila, M. Froesch, J. Peter-Katalinić
 18th International Symposium on Microscale Bioseparations, New Orleans, LA, USA, February 12-17, 2005
 ORAL PRESENTATION
61. Determination of ganglioside expression in human gliosarcoma by chip electrospray tandemmass spectrometry
A.D. Zamfir, L. Bindila, Ž. Vukelić, J. Peter-Katalinić
 German Society for Mass Spectrometry Conference, Rostock, Germany, 6-9 March, 2005
 POSTER PRESENTATION
62. High-performance glycoscreening and sequencing by chip-enhanced ESI-FTICR spectrometry
 M. Froesch, L. Bindila, G. Baykut, N. Lion, H. Girault, M. Allen, J. Peter-Katalinić, **A.D. Zamfir**
 German Society for Mass Spectrometry Conference, Rostock, Germany, 6-9 March, 2005
 POSTER PRESENTATION
63. On-line reverse polarity capillary electrophoresis coupled to electrospray quadrupole time-offlight mass spectrometry for analysis of glycopeptides from Schindler's disease
 L. Bindila, J. Peter-Katalinić, **A.D. Zamfir**
 German Society for Mass Spectrometry Conference, Rostock, Germany, 6-9 March, 2005
 POSTER PRESENTATION
64. FTICR mass spectrometry for glycoconjugate analysis
A.D. Zamfir
 Invited lecture, GSF, München, May 10, 2005
65. Challenges in mass spectrometry-based glycomics
A.D. Zamfir
 Invited lecture, University of Konstanz, September 13, 2005
66. Implementation of microfluidics/electrospray mass spectrometry in glycolipidomics: determination of ganglioside expression in human brain tumors
A.D. Zamfir, Ž. Vukelić, S. Kalanj-Bognar, J. Peter-Katalinić
 Proc. of the 53rd American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, San Antonio, Texas, USA, 5-9 June, 2005
 POSTER PRESENTATION
67. Biomarker discovery in human gliosarcoma by fully automated chip-based mass spectrometry
 R. Almeida, Ž. Vukelić, L. Bindila, S. Kalanj-Bognar, J. Peter-Katalinić, **A.D. Zamfir**
 LC/MS symposium, Ithaca, USA, July 20-22, 2005
 ORAL PRESENTATION
68. Determination of ganglioside pattern in human hippocampus by fully automated chip-based nanoelectrospray mass spectrometry
 M. Zarei, Ž. Vukelić, J. Peter-Katalinić, **A.D. Zamfir**
 16th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Glycobiologie“, Hannover, Germany, October, 27-29, 2005
 POSTER PRESENTATION
69. Structural analysis of sulfated and O-acetylated glycopeptides in urine of Schindler disease patients by on-line capillary electrophoresis/mass spectrometry
 L. Bindila, **A.D. Zamfir**, J. Peter-Katalinić
 16th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse

Vereininging voor Glycobiologie" and the „Groupe Lillois de Glycobiologie“, Hannover, Germany, October, 27-29, 2005
POSTER PRESENTATION

70. Capillary electrophoresis and chip-based mass spectrometry
A.D. Zamfir
Chemistry Institute of Romanian Academy, Timișoara, Romania, 15.12.2005
Invited lecture
71. Lab-on-a-chip: a new perspective in analytical and instrumental chemistry
A.D. Zamfir
Chemistry Institute of Romanian Academy, Timișoara, Romania, 22.12.2005
Invited lecture
72. Analysis of human hippocampus gangliosides by fully-automated chip-base nanoelectrospray tandem mass spectrometry
A.D. Zamfir, M. Zarei, Ž. Vukelić, J. Peter-Katalinić
19th International Symposium on Microscale Bioseparations, Amsterdam, Netherlands, January 22-26, 2006
POSTER PRESENTATION
73. Implementation of microfluidic chip MS in glycolipidomics. Application to biomarker discovery
A.D. Zamfir, J. Peter-Katalinić
19th International Symposium on Microscale Bioseparations, Amsterdam, Netherlands, January 22-26, 2006
Invited lecture
74. Multimethodological mass spectrometry approach for compositional and structural analysis of human brain gangliosides
M. Zarei, S. Vakhrushev, Ž. Vukelić, A. Schneider, A. Ingendoh, J. Peter-Katalinić, **A.D. Zamfir**
German Society for Mass Spectrometry Conference, Mainz, Germany, 5-9 March, 2006
POSTER PRESENTATION
75. Human gliosarcoma-associated gangliosides: a high performance mass spectrometric determination
Ž. Vukelić, S. Kalanj-Bognar, E. Sisu, I. Grozescu, **A.D. Zamfir**
International Conference on Perspectives in Central Nervous System Malignancies, Budapest, April, 7-8, 2006
POSTER PRESENTATION
76. Fully automated chip-based nanoelectrospray tandem mass spectrometry for the determination of noncovalent protein-carbohydrate interaction
A.D. Zamfir, M. Peter, J. Peter-Katalinić
Proc. of the 52nd American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Seattle, Washington, USA, 27-30 May, 2006
ORAL PRESENTATION
77. Human glioblastoma gangliosides-mass spectrometry investigation
A.D. Zamfir
International Conference on Neuronal Excitability, Bucharest, Romania, Sept. 1-3, 2006
INVITED LECTURE
78. Fully automated chip-based electrospray mass spectrometry-a novel concept in glycomics for biomedical research
A.D. Zamfir, E. Sisu, Ž. Vukelić, C. Flangea, I. Grozescu, J. Henion, J. Peter-Katalinić
International NanoBioSpec Conference, Cluj-Napoca, September 3-6, 2006
ORAL PRESENTATION
79. High performance electrospray and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of modified maltodextrins and dextrans
E. Sisu, I. Sisu, I. Scurtu, N. Dinca, A. Serb, C. Neanu, J. Peter-Katalinić, **A.D. Zamfir**
International NanoBioSpec. Conference, Cluj-Napoca, September 3-6, 2006
POSTER PRESENTATION
80. Identification of a high-affinity binding oligosaccharide by (+) nanoelectrospray quadrupole time-of-flight mass spectrometry of a non-covalent enzyme-ligand complex
F. H. Cedervist, **A.D. Zamfir**, S. Bahrke, V.G.H. Eijssink, M. Sørlie, J. Peter-Katalinić, M.G. Peter
7th European Chitin Society Conference, Montpellier, France, Sept. 6-9, 2006
ORAL PRESENTATION
81. Determination of ganglioside pattern in human hippocampus by chip-based nanoelectrospray ionization tandem mass spectrometry
Ž. Vukelić, M. Zarei, J. Peter-Katalinić, **A.D. Zamfir**
International Conference of the Croatian Biochemical Society, Vodic, Croatia, October 4-9, 2006

POSTER PRESENTATION

82. Chip electrospray mass spectrometry for glycoscreening in biomedical research

A.D. Zamfir

International Conference of the Croatian Biochemical Society, Vodice, Croatia, October 4-9, 2006

ORAL PRESENTATION

83. Glycomics and systems biology: new targets for microfluidics-mass spectrometry

A.D. Zamfir

International Conference Research and Education in Innovation Era, Arad, Romania, November 9-12, 2006

ORAL PRESENTATION

84. High capacity ion trap multiple stage sequencing of human brain gangliosides

Ž. Vukelić, C. Ratiu, A. Serb, C. Flangea, E. Sisu, I. Grozescu, **A.D. Zamfir**

International Conference Research and Education in Innovation Era, Arad, Romania, November 9-12, 2006

POSTER PRESENTATION

85. Novel mass spectrometric strategies for determination of protein O- and N- glycosylation

A.D. Zamfir

University of Konstanz, Germany, November 21, 2006

INVITED LECTURE

86. Mass spectrometry of carbohydrates

A.D. Zamfir

University of Konstanz, Germany, November 23, 2006

INVITED LECTURE

87. A novel method for structural analysis of human brain gangliosides based on nanoelectrospray multiple stage sequencing mass spectrometry

A.D. Zamfir, Ž. Vukelić, A. Schneider, E. Sisu, A. Ingendoh

Vienna MS Forum, Vienna, Austria, February 19-22, 2007

INVITED LECTURE

88. Structural analysis of human decorin dermatan sulfate by nanoelectrospray ionization quadrupole time-of-flight tandem mass spectrometry

F. Harja, C. Flangea, D.G. Seidler, N. Dinca, E. Sisu, **A.D. Zamfir**

German Society for Mass Spectrometry Conference, Bremen, Germany, 11-14 March, 2007

POSTER PRESENTATION

89. Mapping and sequencing of gangliosides from defined regions of human brain by nanoelectrospray ionization quadrupole time-of-flight tandem mass spectrometry

A. Serb, F. Harja, Ž. Vukelić, N. Dinca, E. Sisu, **A.D. Zamfir**

German Society for Mass Spectrometry Conference, Bremen, Germany, 11-14 March, 2007

POSTER PRESENTATION

90. Electrospray ionization mass spectrometry: principles and biomedical applications

A.D. Zamfir

Institute for Physiological Chemistry, May, 19, 2007, Muenster, Germania

INVITED LECTURE

91. Structural analysis of chondroitin/dermatan sulfate glycosaminoglycans from human decorin by electrospray ionization multiple stage mass spectrometry

D.G. Seidler, C. Flangea, A. Schneider, A. Serb, E. Sisu, A. Ingendoh, **A.D. Zamfir**

54th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, June 2-7, 2007, Indianapolis, Indiana, USA

ORAL PRESENTATION

92. Electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry of long chain polysaccharides

I. Perdivara, E. Sisu, I. Sisu, M. Przybylski, **A.D. Zamfir**

54th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, June 2-7, 2007, Indianapolis, Indiana, USA

POSTER PRESENTATION

93. Principles and applications of electrospray ionization mass spectrometry

A.D. Zamfir

1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania

INVITED LECTURE

94. Applications of fully automated chip-based electrospray in biological mass spectrometry
A.D. Zamfir
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
INVITED TUTORIAL LECTURE
95. NanoESI QTOF and MALDI TOF MS of modified maltodextrins and dextrans
V. Udrescu, Ioana Sisu, N. Dinca, A. Lascu, C.Neanu E. Sisu, L. Rusnac, **A. D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
96. Mapping and sequencing of gangliosides from anencephaly by electrospray ionization high capacity ion trap mass spectrometry
C. Mosoarca, Ž. Vukelić, **A.D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
97. Determination of decorin glycosaminoglycan oversulfation by electrospray ionization quadrupole time-of-flight tandem mass spectrometry
C. Flangea, A.F. Serb, E. Sisu, N. Dinca, **A.D. Zamfir**, D.G. Seidler
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
98. Compositional and structural analysis of long chain polysaccharides by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry
I. Perdivara, E. Sisu, I. Sisu, M. Przybylski, K. B. Tomer, **A.D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
99. Comparative study upon ganglioside pattern in defined regions of human cerebrum using nanoelectrospray ionization quadrupole time-of-flight mass spectrometry
A.F. Serb, C. Flangea, N. Dinca, E. Sisu, F. Harja, **A.D. Zamfir**, Ž. Vukelić
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
100. Mass spectrometric determination of ganglioside expression and structure in human neocortex
M.I. Chirita, A.F. Serb, E. Sisu, Ž. Vukelić, **A.D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
101. Microspray high capacity ion trap multiple stage mass spectrometry of polysaccharides functionalized with aromatic amines
I. Sisu, E. Sisu, N. Dinca, V. Rusu, **A.D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
ORAL PRESENTATION
102. Structural analysis of chondroitin/dermatan sulfate disaccharides by electrospray ionization high capacity ion trap mass spectrometry
A. Muresan, M. Galusca, D.G. Seidler, N. Dinca, **A.D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
103. A novel approach for investigation of unusual sulfation motifs in chondroitin/dermatan sulfate from a specific proteoglycan by multiple stage mass spectrometry
A.D. Zamfir, E. Sisu, C. Flangea, A.F. Serb, N. Dinca, P. Bruckner, D.G. Seidler
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION

104. Electrospray ionization mass spectrometry of novel o-hydroxy-benzamide derivatives
M.C. Ienascu, C. Mosoarca, I. M. Popescu, A. X. Lupea, **A.D. Zamfir**
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
105. Electrospray ionization tandem mass spectrometric investigation of *Melissa officinalis* oil
D. Tibe, F. Vata, M. Chirita, I.B. Pancan, **A.D. Zamfir**, C.C. Toma
1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
POSTER PRESENTATION
106. Determination of unusual sulfation motifs in chondroitin/dermatan sulfate from a specific proteoglycan by multiple stage mass spectrometry
D.G. Seidler, E. Sisu, C. Flangea, A. F. Serb, N. Dinca, P. Bruckner, **A.D. Zamfir**
18th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereniging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Nov. 5-8, 2007, Lille, France
POSTER PRESENTATION
107. Determination of ganglioside expression and structure in human neocortex by electrospray ionization multiple stage mass spectrometry
M. I. Chirita, Ž. Vukelić, **A.D. Zamfir**
18th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereniging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Nov. 5-8, 2007, Lille, France
POSTER PRESENTATION
108. Survey upon ganglioside expression in anencephaly vs. normal fetal brain by electrospray ionization multiple stage mass spectrometry
C. Mosoarca, Ž. Vukelić, **A.D. Zamfir**
18th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereniging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Nov. 5-8, 2007, Lille, France
POSTER PRESENTATION
109. Fully automated chip-based electrospray ionization multistage CID/ETD mass spectrometry for glycoconjugate analysis
A.D. Zamfir, V. Udrescu, R. Almeida, F. Harja, N. Dinca, L. Rusnac, M. Allen
Austrian Mass Spectrometry Forum, Feb. 18-22, 2008, Vienna, Austria
Invited lecture
110. Glycomics of brain glycosaminoglycans by chip ESI MSⁿ
C. Flangea, C. Mosoarca, A.F. Serb, E. Sisu, D.G. Seidler, **A.D. Zamfir**
Germany Society for Mass Spectrometry Conference, DGMS, March 3-6, 2008, Giessen, Germany
POSTER PRESENTATION
111. High throughput brain ganglioside mapping and multistage sequencing by fully automated chip-based nanoelectrospray high capacity ion trap mass spectrometry
A.F. Serb, C. Mosoarca, C. Flangea, E. Sisu, Ž. Vukelić, **A.D. Zamfir**
Germany Society for Mass Spectrometry Conference, DGMS, March 3-6, 2008, Giessen, Germany
POSTER PRESENTATION
112. Novel mass spectrometric methods and protocols for protein glycosylation analysis
A.D. Zamfir
April 28-May 5, 2008, Konstanz, Germany
INVITED LECTURE
113. Fully automated chip-based electrospray ionization multistage mass spectrometry of long chain polysaccharides functionalized with aromatic amines
V. Udrescu, E. Sisu, I. Sisu, L. Rusnac, M. Allen, R. Almeida, **A.D. Zamfir**
56th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, June 1-6, 2008, Denver, Colorado, USA
ORAL PRESENTATION
114. Coupling of fully automated chip-based electrospray ionization to high capacity ion trap mass spectrometer for high throughput ganglioside analysis
C. Mosoarca, M. Chirita, R. Almeida, M. Allen, M. Allen, **A.D. Zamfir**
56th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, June 1-6, 2008, Denver, Colorado,

USA

POSTER PRESENTATION

115. Coupling of NanoMate Robot to High Capacity Ion Trap Mass Spectrometer for Glycoconjugate Analysis

M. Chirita, A. Serb, E. Sisu, Ž. Vukelić, **A.D. Zamfir**

Conferinta Internationala de Chimie, 29-31 Mai 2008, Timișoara, Romania

POSTER PRESENTATION

116. Mass Spectrometric Mapping and Sequencing of Gangliosides Expressed in Normal Adult Human Cerebellum

A. Ienin, E. Șisu, Ž. Vukelić, **A.D. Zamfir**

Conferinta Internationala de Chimie, 29-31 Mai 2008, Timișoara, Romania

POSTER PRESENTATION

117. Investigation of volatile oil extracted from Melissa officinalis by electrospray ionization tandem mass spectrometry

C.C. Toma, I. B. Pancan, M. Chirita, **A.D. Zamfir**

Conferinta Internationala de Chimie, 29-31 Mai 2008, Timișoara, Romania

POSTER PRESENTATION

118. Identification of sulfation pattern in mouse brain glycosaminoglycans by high performance electrospray ionization mass spectrometry

C. Flangea, C. Mosoarca, A. F. Serb, E. Sisu, D.G. Seidler, **A.D. Zamfir**

Conferinta Internationala de Chimie, 29-31 Mai 2008, Timișoara, Romania

POSTER PRESENTATION

119. Synthesis and characterization of maltodextrins modified with aromatic amines

I. Sisu, E. Sisu, **A.D. Zamfir**

Conferinta Internationala de Chimie, 29-31 Mai 2008, Timișoara, Romania

ORAL PRESENTATION

120. A novel method to enhance mass spectrometric analysis of long chain polysaccharides

V. Udrescu, L. Rusnac, I. Sisu, E. Sisu, R. Almeida, **A.D. Zamfir**

Conferinta Internationala de Chimie, 29-31 Mai 2008, Timișoara, Romania

POSTER PRESENTATION

121. Determination and structural characterization of anencephaly-associated gangliosides by advanced mass spectrometry based on chip electrospray ionization and multistage sequencing.

A.D. Zamfir, C. Mosoarca, C. Flangea, Ž. Vukelić, E. Sisu

6th FENS Forum of European Neuroscience Societies, July 12-18 2008, Geneva, Switzerland; vol.4, 083.29, 2008

POSTER PRESENTATION

122. Comparative assay on ganglioside differential expression in defined regions of human brain by modern mass spectrometric methods

A.F. Serb, C. Flangea, Ž. Vukelić, E. Sisu, L. Zăgrean, **A.D. Zamfir**

6th FENS Forum of European Neuroscience Societies, July 12-18 2008, Geneva, Switzerland, vol.4, 075.11, 2008

POSTER PRESENTATION

123. Glycomics of human fetal brain gangliosides by chip electrospray ionization multistage mass spectrometry

A.D. Zamfir

24th International Carbohydrate Symposium July 27 - August 1 2008, Oslo, Norway

Invited lecture__

124. Analysis of oversulfation in a dermatan sulfate octasaccharide from human skin fibroblast decorin by nanoelectrospray ionization quadrupole time-of-flight tandem mass spectrometry

C. Flangea, A. Serb, F. Harja, D.G. Seidler, N. Dinca, E. Sisu, **A.D. Zamfir**

5th International Conference on Condensed Matter Physics, July 16-18, 2008, Timișoara, Romania

POSTER PRESENTATION

125. High performance mass spectrometric investigation of glycosphingolipid differential expression in human brain

A.F. Serb, C. Flangea, F. Harja, I. Sisu, Z. Szabadai, N. Dinca, E. Sisu, **A.D. Zamfir**

5th International Conference on Condensed Matter Physics, July 16-18, 2008, Timișoara, Romania

POSTER PRESENTATION

126. Lab-on-a chip: a novel concept in glycomics

A.D. Zamfir

5th International Conference on Condensed Matter Physics, July 16-18, 2008, Timișoara, Romania

ORAL PRESENTATION

127. NanoMate/HCT MS o noua tehnica pentru analiza carbohidratilor cu aplicatii in biomedicina
A.D. Zamfir, V. Udrescu, C. Flangea, E. Sisu, N. Dinca, L. Rusnac
Simpozionul National al Academiei de Stiinte Medicale din Romania, 28-30 Sept. 2008, Sinaia, Romania
ORAL PRESENTATION
128. Compositional and structural determination of brain gangliosides from mass spectrometric data by software-assisted assignment
C. Schiopu, E. Sisu, Ž. Vukelić, **A.D. Zamfir**
Neuroscience Workshop-Conferinta Internationala ANCS: Diaspora in Cercetarea Stiintifica Romaneasca, 17-19 Sept. 2008, București, Romania
ORAL PRESENTATION
129. Fetal brain glycolipids exhibit filogenetic and topologic specificity as revealed by fully automated chip-electrospray multistage ion trap mass spectrometry
A. Serb, E. Sisu, Ž. Vukelić, L. Zăgrean, **A.D. Zamfir**
Neuroscience Workshop-Conferinta Internationala ANCS: Diaspora in Cercetarea Stiintifica Romaneasca, 17-19 Sept. 2008, București, Romania
ORAL PRESENTATION
130. Profiling of gangliosides expressed in human hemangioma by fully-automated chip-based nanoelectrospray tandem mass spectrometry
A. Serb, C. Schiopu, C. Flangea, E. Sisu, S. Tudor, Ž. Vukelić, **A.D. Zamfir**
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania
ORAL PRESENTATION
131. Identification of sialylated and sulfated glycosphingolipids by Fourier transform ion cyclotron resonance mass spectrometry
A.D. Zamfir, Ž. Vukelić
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania
ORAL PRESENTATION
132. Investigation of unusual sulfation motifs in chondroitin/dermatan sulfate from a specific proteoglycan by multistage mass spectrometry
A.D. Zamfir, D.G. Seidler
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania
ORAL PRESENTATION
133. Computer software for interpretation of brain ganglioside mass spectra
C. Schiopu, E. Sisu, S. Nadaban, C. Fifer, Ž. Vukelić, **A.D. Zamfir**
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania
POSTER PRESENTATION
134. Investigation of glycosaminoglycan sulfation pattern by high performance chip electrospray multistage mass spectrometry
C. Flangea, A. Serb, F. Harja, S. Tudor, I. Pancan, E. Sisu, D.G. Seidler, **A.D. Zamfir**
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania
ORAL PRESENTATION
135. A novel procedure for derivatization of long chain polysaccharides to enhance fully automated chip-based nanoelectrospray multistage mass spectrometric analysis
E. Sisu, I. Sisu, C. Flangea, V. Udrescu, N. Dinca, **A.D. Zamfir**
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania
POSTER PRESENTATION
136. Analiza polizaharidelor de tip condroitin/dermatan sulfat din creier prin spectrometrie de masa.
C. Flangea, A.F.Serb, E. Sisu, **A.D. Zamfir**
Simpozion National VIASAN-CEEX (Modul 1) 28-30 septembrie 2008, Sinaia, pg 48
POSTER PRESENTATION
137. Nanomate/HCT MS o noua tehnica pentru analiza carbohidratilor cu aplicatii in biomedicina.
V. Udrescu, C. Flangea, E. Sisu, N. Dinca, L. Rusnac, **A.D. Zamfir**.
Simpozion National VIASAN-CEEX (Modul 1) 28-30 septembrie 2008, Sinaia, pg 48
ORAL PRESENTATION
138. Identification of a novel glycosaminoglycan sequence in human decorin by electrospray ionization multistage ion trap mass

spectrometry

A.D. Zamfir, E. Sisu, C. Flangea, A. Serb, D.G. Seidler

2nd International Symposium Research and Education in Innovation Era, 20-21 Nov., 2008, Arad, Romania

ORAL PRESENTATION

139. Potentials of a fully automated chip-based nanoelectrospray ionization high capacity trap mass spectrometry in neuroglycolipidomics: characterization of ganglioside composition specificity in selected fetal human brain regions

Ž.Vukelić, D. Marinčić, A.Serb, **A.D. Zamfir**

Austrian Mass Spectrometry Forum, Feb. 17-19, 2009, Vienna, Austria

INVITED LECTURE

140. Novel saccharide sequence analysis of glycosaminoglycans by enzyme cleavage and multistage MS: unusual exuronic acid sulfation in decorin

C. Flangea, C. Schiopu, E. Sisu, N. Dinca, D.G. Seidler, **A.D. Zamfir**

Austrian Mass Spectrometry Forum, Feb. 17-19, 2009, Vienna, Austria

ORAL PRESENTATION

141. A new Mass Spectrometry Society – Perspectives and plans

A.D. Zamfir

Anniversary Conference, 20 years of Analytical Chemistry in Konstanz, March 5-7, 2009, Konstanz, Germany

INVITED LECTURE

142. Chip-based nanoelectrospray multistage mass spectrometry in neuroglycolipidomics: high-throughput analysis of gangliosides in defined regions of fetal brain

A.F. Serb, C. Schiopu, D. Marinčić, Ž. Vukelić, **A.D. Zamfir**

42nd German Society for Mass Spectrometry Conference, Konstanz, Germany, March 8-11, 2009

ORAL PRESENTATION

143. Investigation of novel under- and over-sulfated regions in decorin glycosaminoglycans by electrospray ionization collision-induced dissociation multistage mass spectrometry

C. Flangea, E. Sisu, N. Dinca, D.G. Seidler, **A.D. Zamfir**

42nd German Society for Mass Spectrometry Conference, Konstanz, Germany, March 8-11, 2009

POSTER PRESENTATION

144. A novel procedure for derivatization of long chain polysaccharides to enhance chip-based nanoelectrospray tandem mass spectrometric analysis

C. Flangea, I.Sisu, N. Dinca, E. Sisu, **A.D. Zamfir**

42nd German Society for Mass Spectrometry Conference, Konstanz, Germany, March 8-11, 2009

POSTER PRESENTATION

145. Chip-Based nanoelectrospray high capacity ion trap mass spectrometry of gangliosides from precentral vs. postcentral gyrus of fetal human brain

D.Marinčić, Ž.Vukelić, C. Schiopu, M. Kos, **A.D. Zamfir**

42nd German Society for Mass Spectrometry Conference, Konstanz, Germany, March 8-11, 2009

POSTER PRESENTATION

146. Screening and sequencing of fructooligosaccharides produced by heterologously expressed levansucrase from *Pseudomonas syringae* pv. tomato DC3000 by fully automated chip based mass spectrometry

C. Mosoarca, T. Visnapuu, T. Alamăe, **A.D. Zamfir**

42nd German Society for Mass Spectrometry Conference, Konstanz, Germany, March 8-11, 2009

POSTER PRESENTATION

147. High-throughput mass spectrometric determination of ganglioside expression and structure in human fetal cerebellum

R. M. Ghiulai, C. Mosoarca, C. Novaconi, D. Marinčić, Ž. Vukelić, **A.D. Zamfir**

42nd German Society for Mass Spectrometry Conference, Konstanz, Germany, March 8-11, 2009

POSTER PRESENTATION

148. Chip-based mass spectrometry for glycomics and glycoproteomics

A.D. Zamfir

Invited lecture: Anniversary Symposium "20 years of Analytical Chemistry at

University of Konstanz", Konstanz, May 12-13, 2009

149. Analysis of brain chondroitin/dermatan sulfate glycosaminoglycans by fully automated chip-based nanoelectrospray multistage mass spectrometry

C. Flangea, E. Sisu, D.G. Seidler, **A.D. Zamfir**

57th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, May 31-June 6, 2009, Philadelphia,

USA

POSTER PRESENTATION

150. Compositional and structural analysis of gangliosides in human cerebrospinal fluid by chip-based nanoelectrospray ionization tandem mass spectrometry

A. Serb, C. Schiopu, D. Marinčić, Ž. Vukelić, **A.D. Zamfir**

57th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, May 31-June 6, 2009, Philadelphia, USA

POSTER PRESENTATION

151. Combining fully-automated chip-nanoelectrospray ion trap mass spectrometry and GanglioSoft 1.2 computer software for identification of human hemangioma gangliosides

C.Schiopu, A. Serb, E. Sisu, Ž. Vukeli, **A.D. Zamfir**

57th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, May 31-June 6, 2009, Philadelphia, USA

POSTER PRESENTATION

152. A novel method for brain ganglioside analysis based on top-down fragmentation by multistage mass spectrometry.

A Serb, C. Schiopu, C. Flangea, A.M. Zagrean, E. Sisu, **A. D. Zamfir**, L. Zagrean.

5th "Gheorghe Marinescu" Symposium of the National Neuroscience Society of Romania (with international participation). "Carol Davila" University of Medicine and

Pharmacy, October 1-3 2009, Bucharest, Romania

ORAL PRESENTATION

153. Automatic assignment of ganglioside mass spectrometry using a novel computer software platform

C. Schiopu, F. Capitan, A. Serb, A.M. Zagrean, C. Flangea, E. Sisu, L. Zagrean, **A.D. Zamfir**

5th "Gheorghe Marinescu" Symposium of the National Neuroscience Society of Romania (with international participation). "Carol Davila" University of Medicine and

Pharmacy, October 1-3 2009, Bucharest, Romania

ORAL PRESENTATION

154. Biomarker discovery in human brain hemangioma by fully automated chipbased nanoelectrospray mass spectrometry. F. Capitan, C. Schiopu, A.

Serb, A.M. Zagrean, C. Flangea, E. Sisu, L. Zagrean, A. d. Zamfir

5th "Gheorghe Marinescu" Symposium of the National Neuroscience Society of Romania (with international participation). "Carol Davila" University of

Medicine and Pharmacy, October 1-3 2009, Bucharest, Romania

ORAL PRESENTATION

155. Structural analysis of chondroitin/dermatan sulfate oligosaccharides from biglycan by fully automated chip-nanoelectrospray ion trap massspectrometry.

Flangea, Corina; Sisu, Eugen; Seidler, Daniela; **A.D. Zamfir**

43. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie 7-10 March 2010 Halle/Saale Germany

ORAL PRESENTATION

156. High throughput sequencing of polysialylated gangliosides by chip nanoelectrospray multistage collision-induced dissociation.

Schiopu,Catalin; Serb, Alina; Flangea, Corina; Sisu, Eugen; **A.D. Zamfir**

43.Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie 7-10

March 2010 Halle/Saale Germany

POSTER PRESENTATION

157. Glycomics Of Glycosaminoglycans By Chip-Nanoelectrospray Mass Spectrometry.

Corina Flangea, Eugen Sisu, Daniela Seidler, **A.D. Zamfir**

1st Romanian Ssociety for Mass Spectrometry Conference

"Introducing Life Science Mass Spectrometry in Romania" April 25-29

2010 Sinaia, Romania

POSTER PRESENTATION

158. Chip-Based Nanoelectrospray Ionization Mass Spectrometry Of Biglycan Chondroitin/Dermatan Sulfate Oligosaccharides.

Corina Flangea, Ramona Aldea, Eugen Sisu, Daniela Seidler, **A.D. Zamfir**

1st Romanian Ssociety for Mass Spectrometry Conference "Introducing Life

Science Mass Spectrometry in Romania" April 25-29 2010 Sinaia,

Romania

ORAL PRESENTATION

159. Top-Down Fragmentation Of Complex Brain Gangliosides.
A.F. Serb, Corina Flangea, C. Schiopu, E. Sisu, Željka Vukelić, **A. D. Zamfir**
1st Romanian Society for Mass Spectrometry Conference
"Introducing Life Science Mass Spectrometry in Romania" April 25-29
2010 Sinaia, Romania
POSTER PRESENTATION

160. Compositional And Structural Analysis Of Gangliosides In Defined
Regions Of Human Brain By Fully Automated Chip-Nanoelectrospray Multistage Mass Spectrometry.
Alina F. Serb, Corina Flangea, Eugen Sisu, Željka Vukelić, **A. D. Zamfir**
1st Romanian Society for Mass Spectrometry Conference "Introducing Life Science Mass Spectrometry in Romania" April 25-29 2010
Sinaia, Romania
POSTER PRESENTATION

161. New glycosylaminoglycan domains revealed by mass spectrometry methods based on chip-nano-ESI.
Corina Flangea, **A.D. Zamfir**
13-15 Decembrie 2009; Konstanz, Germany
INVITED LECTURE

162. A novel platform for top-down proteomics: chip-based nanoelectrospray combined with electron transfer dissociation mass spectrometry
C. Flangea, C. Schiopu, F. Capitan, C. Mosoarca, M. Manea, E. Sisu, **A.D. Zamfir** Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland
POSTER PRESENTATION

163. Alpha-galactosidase A activity monitoring by fluorometry and mass spectrometry
M. Galusca, C. Cozma, S. Dilly, **A.D. Zamfir**, M. Przybylski
Romanian Society for Mass Spectrometry Conference, 1-5 May 2011, Timișoara, Romania
POSTER PRESENTATION

164. Affinity binding study of Abeta–autoantibody CDR peptide to Abeta (12-40) peptide
M. Galusca, C. Cozma, **A.D. Zamfir**, M. Przybylski Romanian Society for Mass Spectrometry Conference, 25-29 April 2010, Sinaia, Romania
POSTER PRESENTATION

165. Microfluidics-mass spectrometry of glycosaminoglycans
A.D. Zamfir 18th International Mass Spectrometry Conference, 30 August-4 -September 2009, Bremen, Germany
INVITED LECTURE

166. Affinity binding study of Abeta–autoantibody CDR peptide to Abeta (12-40) peptide M. Galusca, C. Cozma, **A.D. Zamfir**, M. Przybylski
Deutsche Gesellschaft für Massenspektrometrie Conference, 7-10 March 2010, Halle, Germany

167. Complex structural composition of accumulated GD1a species in brain tissue of GD3 synthase knockout mice
D. Marinčić, K. Mlinac, M. Heffer, **A. D. Zamfir**, Ž. Vukelić, S. Kalanj Bognar
SINAPSA Neuroscience Conference '11, Central European FENS Featured Regional Meeting, Ljubljana, Slovenia, September 22-25, 2011
POSTER PRESENTATION

168. Chip-based mass spectrometry, a novel concept in glycomics
A.D. Zamfir, F. Peter, E. Sisu
12th Edition of Academic Days Timisoara, Chemistry
26-27 May 2011
ORAL PRESENTATION

169. Mass Spectrometry-Based Characterization of Gangliosides from Selected Brain Tumors: Further Evidences of Aberrant Glycosylation,
Dragana Marinčić, Željka Vukelić, **A.D. Zamfir**, Alina Serb, Jasna Peter-Katalinić
2nd International Conference of The Romanian Society For Mass Spectrometry, Timisoara 1-5 Mai, 2011
ORAL PRESENTATION

170. A Novel Analytical Approach Combining NanoMate and Electron Transfer Dissociation for Top-Down Proteomics
Corina Flangea, Alina Serb, Cristina Mosoarca, Catalin Schiopu, Roxana Ghiulai, Marilena Manea, Eugen Sisu, **A.D. Zamfir**
2nd International Conference of The Romanian Society For Mass Spectrometry, Timisoara 1-5 Mai, 2011
INVITED LECTURE

171. Composition and Structure Analysis of Gangliosides in Human Brain Hemangioma by NanoMate Robot Coupled to Ion Trap Mass Spectrometry,

Florina Capitan, Catalin Schiopu, Corina Flangea, Eugen Sisu, **A. D. Zamfir**

2nd International Conference of The Romanian Society For Mass Spectrometry, Timisoara 1-5 Mai, 2011

INVITED LECTURE

172. New Oversulfated Chondroitin/Dermatan Sulfate Sequence Identification in Human

Skin Fibroblasts Decorin by Fully Automated Chip-Based Nanoelectrospray Quadrupole Time of Flight Mass Spectrometry,

Corina Flangea, Alina Serb, Eugen Sisu, Daniela G. Seidler, Jasna Peter-Katalinić, **A. D. Zamfir**

2nd International Conference of The Romanian Society For Mass Spectrometry, Timisoara 1-5 Mai, 2011

ORAL PRESENTATION

173. Ganglioside composition and structure analysis in human dysembryoplastic neuroepithelial tumor

D. Marinčić, T.Pašalić, Alina Serb, Tomislav Sajko, **A. D. Zamfir**, Ž. Vukelić

SiNAPSA Neuroscience Conference '11, Central European FENS Featured Regional Meeting, Ljubljana, Slovenia, September 22-25, 2011

ORAL PRESENTATION

174. Oligomerisation studies of modified A-beta peptides using mass spectrometry

M.I. Iurascu, C. Cozma, M. Galusca, M. Przybylski, **A.D. Zamfir**

Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland

POSTER PRESENTATION

175. Clinical diagnostic in dry blood spots by fluorometry and multiple reaction monitoring mass spectrometry

C. Cozma, M.I. Iurascu, M. Galusca, S. Maeser, M. Przybylski, **A.D. Zamfir**

Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland

POSTER PRESENTATION

176. Chip-based nanoelectrospray mass spectrometry of fructooligosaccharides produced by levansucrases from Pseudomonas Syringae Pv. Tomato and P. Chlororaphis Subs. P. Aurantiaca

C. Mosoarca, **A.D. Zamfir**

Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland

POSTER PRESENTATION

177. High throughput top-down proteomics by chip-based nanoelectrospray in combination with electron transfer dissociation mass spectrometry

C. Flangea, M. Galusca, M. Manea, **A.D. Zamfir**

4th International Congress and the 30th Annual Session of the Romanian Society for Cell Biology, 13-17 June 2012, Satu Mare, Romania

POSTER PRESENTATION

178. Rapid diagnostic by fully automated chip-based nanoelectrospray ionization mass spectrometry

C. Flangea, M. Galusca, **A.D. Zamfir**

4th International Congress and the 30th Annual Session of the Romanian Society for Cell Biology, 13-17 June 2012, Satu Mare, Romania

POSTER PRESENTATION

179. Fully automated chip-based nanoelectrospray combined with electron transfer dissociation for high throughput top-down proteomics

C. Flangea, C. Mosoarca, M. Manea, C. Schiopu, E. Sisu, **A.D. Zamfir**

International Mass Spectrometry Conference, 11-22 September 2012, Kyoto, Japan

POSTER PRESENTATION

180. Chip-based electrospray ionization tandem mass spectrometry a novel tool for rapid diagnostic of Fabry disease

M. Galusca, C. Flangea, C. Mosoarca, C. Cozma, **A.D. Zamfir**

International Mass Spectrometry Conference, 11-22 September 2012, Kyoto, Japan

POSTER PRESENTATION

181. Compositional and structural analysis of gangliosides in human fetal cerebellum by chip electrospray mass spectrometry

F. Capitan, C. Schiopu, C. Mosoarca, C. Flangea, C. Ilie, I. Velea, E. Sisu, **A.D. Zamfir**

International Symposium Research and Education in Innovation Era, 8-9 November 2012, Arad, Romania

POSTER PRESENTATION

182. Chip-based electrospray ionization tandem mass spectrometry a novel tool for rapid diagnostic

M. Galusca, C. Flangea, C. Mosoarca, C. Cozma, **A.D. Zamfir**

International Symposium Research and Education in Innovation Era, 8-9 November 2012, Arad, Romania
POSTER PRESENTATION

183. Mapping and sequencing of gangliosides in human astrocytoma by Orbitrap mass spectrometry

F. Capitan, C. Schiopu, C. Flangea, Ž. Vukelić, **A.D. Zamfir**

24th Mass Spectrometry Forum, 19-23 February, 2013, Vienna, Austria

ORAL PRESENTATION

184. Rapid diagnosis of Fabry disease by a novel method based on automated chip-nanoelectrospray ionization mass spectrometry

M. Galusca, C. Flangea, C. Mosoarca, C. Cozma, **A.D. Zamfir**

24th Mass Spectrometry Forum, 19-23 February 2013, Vienna, Austria

ORAL PRESENTATION

185. Fully automated chip-nanoelectrospray combined with collision induced and electron transfer dissociation

A.D. Zamfir, C. Mosoarca, C. Flangea, C. Cozma, I. Malaescu, M. Przybylski

46th German Society for Mass Spectrometry Conference, 10-14 March 2013, Berlin, Germany

POSTER PRESENTATION

186. Introducing Orbitrap mass spectrometry for ganglioside biomarker discovery in human brain cancer: application to astrocytoma

F. Capitan, C. Flangea, A. Petrescu, C. Munteanu, **A.D. Zamfir**

46th German Society for Mass Spectrometry Conference, 10-14 March 2013, Berlin, Germany

POSTER PRESENTATION

187. Rapid diagnosis through molecular markers identified by advanced mass spectrometry

C. Mosoarca, C. Flangea, M. Galusca, **A.D. Zamfir**

5th International Congress and the 31th Annual Session of the Romanian Society for Cell Biology, 5-9 June 2013, Timișoara, Romania

POSTER PRESENTATION

188. Chip-based nanoelectrospray ionization tandem mass spectrometry for glycan analysis in biomedical research

A.D. Zamfir

2nd Middle Eastern and Mediterranean Sea Region Countries Mass Spectrometry Conference, June 30 - July 4, 2013, Siena, Italy
invited lecture

189. Chip-based mass spectrometry of oligosaccharides produced by levansucrases from *Pseudomonas syringae* pv.

tomato and *P. chlororaphis* subsp. *aurantiaca*

C. Mosoarca, T. Visnapuu, T. Alamãe, **A.D. Zamfir**

2nd Biotechnology World Congress, 10-13 February 2014, Dubai, United Arab Emirates

POSTER PRESENTATION

190. Top-down analysis by electron transfer/collision induced dissociation of noncovalent protein-ganglioside complexes

C. Mosoarca, L. Lupu, I. Malaescu, **A.D. Zamfir**

5th Mass Spectrometry Forum, 17-19 February 2014, Vienna, Austria

ORAL PRESENTATION

191. Applications of chip-based nanoelectrospray MS to lysosomal storage diseases: Schindler disease

M. Sarbu, A. Robu, R. Ghiulai, J. Peter-Katalinić, **A.D. Zamfir**

25th Mass Spectrometry Forum, 17-19 February 2014, Vienna, Austria

ORAL PRESENTATION

192. A nanoESI-QTOF MS approach for screening and sequencing of underivatized dextran chains containing up to 35 glucose repeats

M. Sarbu, R. Ghiulai, **A.D. Zamfir**

20th International Mass Spectrometry Conference, 24-29 August 2014, Geneva, Switzerland

POSTER PRESENTATION

193. Introduction of chip-based nanoelectrospray mass spectrometry with electron transfer/collision induced dissociation in glycoproteomics

C. Mosoarca, **A.D. Zamfir**

20th International Symposium on Analytical and Environmental Problems, 22 September 2014, Szeged, Hungary

ORAL PRESENTATION

194. Nanoelectrospray quadrupole time of flight tandem mass spectrometric analysis of long chain polysaccharides

A.D. Zamfir, M. Sarbu, R. Ghiulai

20th International Symposium on Analytical and Environmental Problems, 22 September 2014, Szeged, Hungary

POSTER PRESENTATION

195. Nanoelectrospray quadrupole time-of-flight tandem mass spectrometric analysis of long chain polysaccharides
M. Sarbu, R.M. Ghiulai, **A.D. Zamfir**
5th International Symposium. Research and Education in Innovation Era, 5-6 November 2014, Arad, Romania
ORAL PRESENTATION
196. Identification of the O-glycoforms expressed in the urine of a patient suffering from Schindler disease using chip-based nanoelectrospray tandem mass spectrometry
A.C. Robu, M. Sarbu, C.C. Darie, J. Peter-Katalinić, **A.D. Zamfir**
Eastern Analytical Symposium and Exhibition, 17-19 November, Somerset, New Jersey, USA
POSTER PRESENTATION
197. Glycan biomarker discovery in human gliosarcoma by chip-based nanoelectrospray tandem mass spectrometry
L. Lupu, Ž. Vukelić, C.C. Darie, **A.D. Zamfir**
Eastern Analytical Symposium and Exhibition, 17-19 November, Somerset, New Jersey, USA
POSTER PRESENTATION
198. Introducing 2D numerical analysis in modelling of complex carbohydrate mass spectra
C. Mosoarca, I. Malaescu, Ž. Vukelić, **A.D. Zamfir**, A. Ercuta
TIM-FIZ 2014 Physics without frontiers, International Physics Conference, 20-22, November 2014, Timișoara, Romania
POSTER PRESENTATION
199. Chip-based mass spectrometry for Schindler disease type I: detailed analysis of a complex glycopeptide fraction from patient urine
M. Sarbu, A. Robu, I. Malaescu, **A.D. Zamfir**
TIM-FIZ 2014 Physics without frontiers, International Physics Conference, 20-22, November 2014, Timișoara, Romania
POSTER PRESENTATION
200. Novel glycopeptide structures highlighted by Orbitrap MS and MS² analysis in the urine of a Schindler disease patient
M. Sarbu, C.V.A. Munteanu, A. Petrescu, J. Peter-Katalinić, **A.D. Zamfir**
26th Mass Spectrometry Forum, 17-19 February, 2015, Vienna, Austria
ORAL PRESENTATION
201. High sensitivity Orbitrap mass spectrometry analysis of neural chondroitin/dermatan sulfate domains
C.V.A. Munteanu, L. Popescu, D.G. Seidler, **A.D. Zamfir**
26th Mass Spectrometry Forum, 17-19 February, 2015, Vienna, Austria
POSTER PRESENTATION
202. High resolution mass spectrometric analysis of complex ganglioside profile typical to early stage fetal neocortex
R.M. Ghiulai, M. Sarbu, Ž. Vukelić, C. Ilie, **A.D. Zamfir**
26th Mass Spectrometry Forum, 17-19 February, 2015, Vienna, Austria
POSTER PRESENTATION
203. Discovering breast cancer biomarkers in human milk by advanced proteomics methods based on mass spectrometry
A.C. Robu, R. Aslebagh, K.F. Arcaro, C.C. Darie, **A.D. Zamfir**
26th Mass Spectrometry Forum, 17-19 February, 2015, Vienna, Austria
POSTER PRESENTATION
204. Introducing ion mobility mass spectrometry in glycomics of Schindler disease
M. Sarbu, F. Zhu, J. Peter-Katalinić, D.E. Clemmer, M. Przybylski, **A.D. Zamfir**
48th German Society for Mass Spectrometry Conference (Deutschen Gesellschaft für Massenspektrometrie-DGMS), 1-4 March 2015, Wuppertal, Germany
POSTER PRESENTATION
205. Development of advanced proteomics methods based on mass spectrometry for breast cancer biomarker discovery in human milk
A.C. Robu, R. Aslebagh, C.C. Darie, B. Chait, M. Przybylski, **A.D. Zamfir**
48th German Society for Mass Spectrometry Conference (Deutschen Gesellschaft für Massenspektrometrie-DGMS), 1-4 March 2015, Wuppertal, Germany
POSTER PRESENTATION
206. Proteomics methods based on gel electrophoresis and nanoLC-MS/MS for discovering new breast cancer biomarkers in human milk
A.C. Robu, R. Aslebagh, C.C. Darie, B. Chait, M. Przybylski, **A.D. Zamfir**
1st International Symposium Biomolecular Recognition and Mass Spectrometry, 5-7 March 2015, Rüsselsheim, Germany
POSTER PRESENTATION
207. Compositional and structural analysis of brain chondroitin/dermatan sulfate hexasaccharides by Orbitrap mass spectrometry
L. Popescu, A.C. Robu, F. D. Munteanu, D.G. Seidler, **A.D. Zamfir**

3rd Mediterranean Sea Region Countries Mass Spectrometry Workshop, 28 June- 2 July 2015, Athens, Greece
 POSTER PRESENTATION

208. Assessment of the noncovalent interaction between β -lactoglobulin detected in human milk and maltooligosaccharides by chip nanoelectrospray high resolution tandem mass spectrometry

A.C. Robu, F. Capitan, C. Schiopu, B.T. Chait, **A.D. Zamfir**

3rd Mediterranean Sea Region Countries Mass Spectrometry Workshop, 28 June- 2 July 2015, Athens, Greece
 POSTER PRESENTATION

209. Clinical applications of chip-based mass spectrometry

A.D. Zamfir

25th Anniversary Conference of the Romanian Society of Biochemistry and Molecular Biology, 17-18 September, Bucharest, Romania
 ORAL PRESENTATION

210. A decade of GlycoRizzi-based Austrian-Romanian mass spectrometry

A.D. Zamfir

Bioanalysis Symposium and Honorary Coloquium, 5-6 November 2015, Vienna, Austria
 INVITED LECTURE

211. ChipESI MSⁿ of Ctb5 monomers-G1 ganglioside complexes.

A. Robu, L. Popescu, F. Capitan, **A.D. Zamfir**

27th Mass Spectrometry Forum 23-25 February, 2016, Vienna, Austria
 POSTER PRESENTATION

212. Neuroblastoma ganglioside analysis by chip-ESI MS

A.D. Zamfir, A. Robu, F. Capitan, C. Schiopu

27th Mass Spectrometry Forum 23-25 February, 2016, Vienna, Austria
 POSTER PRESENTATION

213. IMS MS and MS/MS of human brain gangliosides

M. Sarbu (Galusca), A. Robu, M. Trion, D. Clemmer, **A.D. Zamfir**

27th Mass Spectrometry Forum 23-25 February, 2016, Vienna, Austria
 ORAL PRESENTATION

214. Microfluidics-mass spectrometry of brain tumor gangliosides

A.D. Zamfir, A. Robu, F. Capitan, C. Schiopu

13th International Conference on Nanosciences & Nanotechnologies, 5-9 July, 2016, Thessaloniki, Greece
 ORAL PRESENTATION

215. Glycomics of GAG oligosaccharides by high-performance mass spectrometry

A. Robu, L. Popescu, F. D. Munteanu, **A.D. Zamfir**

13th International Conference on Nanosciences & Nanotechnologies, 5-9 July, 2016, Thessaloniki, Greece
 POSTER PRESENTATION

216. Ion mobility mass spectrometry of glycolipids

M. Sarbu (Galusca), F.D. Munteanu, D. E. Clemmer, **A.D. Zamfir**

13th International Conference on Nanosciences & Nanotechnologies, 5-9 July, 2016, Thessaloniki, Greece
 POSTER PRESENTATION

217. Development of the advanced mass spectrometry for mapping and structural analysis of human brain gangliosides

M. Sarbu, M. Trion, L. Dehelean, A.C. Robu, F. Munteanu, **A.D. Zamfir**

22nd International Symposium on Analytical and Environmental Problems, Szeged, Ungaria. 10 Oct., 2016
 ORAL PRESENTATION

218. Assessment of protein-glycan interaction by chip-based mass spectrometry

A.C. Robu, L. Popescu, F.D. Munteanu, **A.D. Zamfir**

22nd International Symposium on Analytical and Environmental Problems, Szeged, Ungaria, 10 Oct., 2016
 POSTER PRESENTATION

219. Determination of noncovalent FGF2-galactosaminoglycan interaction by chip-based high-resolution mass spectrometry

L. Popescu, A.C. Robu, F.D. Munteanu, **A.D. Zamfir**

a XXXIV-a Conferință Națională de Chimie, Căciulata, Vâlcea, 4-7 Oct., 2016
 POSTER PRESENTATION

220. Glycopeptides biomarker discovery in Schindler disease by ion mobility tandem mass spectrometry

M. Sarbu, D.E. Clemmer, **A.D. Zamfir**

10th Central and Eastern European Proteomic Conference, Budapesta, Ungaria, 11-14 Oct., 2016
ORAL PRESENTATION

221. Glycomics of brain glycosaminoglycans by high resolution tandem mass spectrometry
L. Popescu, A.C. Robu, C. Munteanu, **A.D. Zamfir**
10th Central and Eastern European Proteomic Conference, Budapesta, Ungaria, 11-14 Oct., 2016
POSTER PRESENTATION

222. Age-related and topographic specificity of human brain gangliosides by Orbitrap mass spectrometry
M. Sarbu, Ž. Vukelić, **A.D. Zamfir**
28th MassSpec Forum Conference, 17-18 februarie 2017, Viena, Austria
POSTER PRESENTATION

223. Novel developments in high performance electrospray ionization mass spectrometry of glycosaminoglycans
A.D. Zamfir
28th MassSpec Forum Conference, 17-18 februarie 2017, Viena, Austria
ORAL PRESENTATION

224. Application of high resolution mass spectrometry in glycolipidomics of extracranial tumors
A.C. Robu, **A.D. Zamfir**
28th MassSpec Forum Conference, 17-18 februarie 2017, Viena, Austria
POSTER PRESENTATION

225. Screening of human fetal hippocampus gangliosides by ion mobility mass spectrometry
M. Sarbu, Ž. Vukelić, D.E. Clemmer, **A.D. Zamfir**
Proceedings of the American Society for Mass Spectrometry Conference, 4-6 iunie 2017, Indianapolis, SUA.
POSTER PRESENTATION

226. Assessment of the noncovalent interaction between FGF-2 and glycosaminoglycans by chip-nanoelectrospray high resolution mass spectrometry
A.C. Robu, L. Popescu, D.G. Seidler, **A.D. Zamfir**
Proceedings of the American Society for Mass Spectrometry Conference, 4-8 iunie 2017, Indianapolis, SUA.
POSTER PRESENTATION

227. Chip-nanoESI high resolution mass spectrometry assay for studying the FGF-GAG noncovalent complexes
A.C. Robu, L. Popescu, D.G. Seidler, **A.D. Zamfir**
14th International Conference on Nanosciences & Nanotechnologies (NN17), 5-9 iulie 2017, Thessaloniki, Grecia.
POSTER PRESENTATION

228. Nanofluidics for mass spectrometry with applications in glycomics for biomedical research
A.D. Zamfir
14th International Conference on Nanosciences & Nanotechnologies (NN17), 5-9 iulie 2017, Thessaloniki, Grecia.
ORAL PRESENTATION

229. Ion mobility mass spectrometry: Mapping and structural characterization of human fetal hippocampus gangliosides
M. Sarbu, Ž. Vukelić, D.E. Clemmer, **A.D. Zamfir**
14th International Conference on Nanosciences & Nanotechnologies (NN17), 5-9 iulie 2017, Thessaloniki, Grecia.
POSTER PRESENTATION

230. Profiling and structural characterization by mass spectrometry of region-specific gangliosides in brain
M. Sarbu, Ž. Vukelić, D.E. Clemmer, **A.D. Zamfir**
23rd International Symposium on Analytical and Environmental Problems, 9-10 octombrie 2017, Szeged, Ungaria
ORAL PRESENTATION

231. High performance mass spectrometry for advanced interactomics studies
A.C. Robu, L. Popescu, D.G. Seidler, **A.D. Zamfir**
23rd International Symposium on Analytical and Environmental Problems, 9-10 octombrie 2017, Szeged, Ungaria
POSTER PRESENTATION

232. Modern mass spectrometric approaches for biomarker discovery
A.D. Zamfir
Walsh Seminar, 9-10 Noiembrie 2017, Potsdam, N.Y., USA
INVITED LECTURE

233. Mass spectrometry of proteoglycans

A.D. Zamfir

Dept. of Chemistry & Biomolecular Science, 9 Noiembrie 2017, Clarkson University, N.Y., USA
INVITED LECTURE

234. Microfluidics-mass spectrometry for glycomics in biomedical research

A.D. Zamfir, invited lecture

Dept. of Chemistry & Biomolecular Science, 10 Noiembrie 2017, Clarkson University, N.Y., USA
INVITED LECTURE

235. Chip-nanoESI QTOF MS of FGF2-CS noncovalent interaction

A.C. Robu L. Popescu, M. Sarbu, D.G. Seidler, **A.D. Zamfir**

29th MassSpec Forum Vienna, 20-21 Februarie 2018, Viena, Austria
ORAL PRESENTATION

236. IMS MS of human fetal hippocampus: novel insights into the ganglioside domain

M. Sarbu, Ž. Vukelić, D.E. Clemmer, **A.D. Zamfir**

29th MassSpec Forum Vienna, 20-21 Februarie 2018, Viena, Austria
POSTER PRESENTATION

237. ESI MS/MS discovery of a novel brain GT1 ganglioside species

I.I. Cozma, M. Sarbu, C. Ilie, **A.D. Zamfir**

29th MassSpec Forum Vienna, 20-21 Februarie 2018, Viena, Austria
POSTER PRESENTATION

238. High performance chip-nanoelectrospray tandem mass spectrometry characterization of the noncovalent FGF2 – CS complex,

Popescu L., **A.D. Zamfir**

TIM 18 Physics Conference, 24-26 Mai, Timisoara, Romania
ORAL PRESENTATION

239. Development of novel mass spectrometry approaches for the analysis of brain gangliosides and their structural and functional interactions,

Popescu L., Sarbu M., Robu A.C., **A.D. Zamfir**

7th International Symposium Research and Education in Innovation Era, 17-20 Mai 2018, Arad, Romania
ORAL PRESENTATION

240. Fibroblast growth factor-glycosaminoglycan noncovalent interaction analysis by chip-nanoelectrospray mass spectrometry

Robu AC, Popescu L., Seidler DG, **A.D. Zamfir**,

ISREIE, Student Scientific Session, XVIth Edition, 10-12 mai, 2018, Arad, Romania
ORAL PRESENTATION

241. Determination of neuropeptides-human brain gangliosides noncovalent interactions by microfluidics tandem mass spectrometry

Robu AC, Sarbu M, Popescu L, Vukelic Z, **A.D. Zamfir**

Proceedings of the American Society for Mass Spectrometry Conference, 3-7 iunie 2018, San Diego, SUA
ORAL PRESENTATION

242. Ion mobility mass spectrometry of human brain hippocampus gangliosides

Sarbu M, Vukelic Z, Clemmer D, **A.D. Zamfir**

Proceedings of the American Society for Mass Spectrometry Conference, 3-7 iunie 2018, San Diego, SUA
POSTER PRESENTATION

243. Ion mobility mass spectrometry and chip mass spectrometry analyses for functional and structural interactions of gangliosides

Alina D. Zamfir, Mirela Sarbu, Raluca Ica, Radu Albulescu, Andrei-Jose Petrescu

Walsh Seminar (January 16th-23th, 2019, New York, USA)
INVITED LECTURE

244. Fully automated chip-based nanoESI analyses of protein-brain ganglioside interactions

Laurentiu Popescu, Mirela Sarbu, Raluca Ica, Alina Petrut, **Alina D. Zamfir**

30th MassSpec Forum Vienna (February 16th-22th, 2019, Viena, Austria)
POSTER PRESENTATION

245. An advanced mass spectrometry approach for glycolipid biomarker discovery in neurodevelopmental diseases
Mirela Sarbu, Raluca Ica, Cristian V.A. Munteanu, Andrei J. Petrescu, Alina Petrut, **Alina D. Zamfir**
30th MassSpec Forum Vienna (February 16th-22th, 2019, Viena, Austria)
POSTER PRESENTATION

246. High resolution mass spectrometry provides novel insights into the structure and functions of gangliosides expressed in nucleus caudatus
Mirela Sarbu, Laurentiu Popescu, Raluca Ica, Cristian V.A. Munteanu, Alina Petrut, Andrei J. Petrescu, **Alina D. Zamfir**
30th MassSpec Forum Vienna (February 16th-22th, 2019, Viena, Austria)
POSTER PRESENTATION

247. Ganglioside expression and structure in normal human cerebellum: an Orbitrap mass spectrometry survey
Raluca Ica, Mirela Sarbu, Cristian V.A. Munteanu, Alina Petrut, Andrei J. Petrescu, Radu Albulescu, **Alina D. Zamfir**
30th MassSpec Forum Vienna (February 16th-22th, 2019, Viena, Austria)
POSTER PRESENTATION

248. Function and structural protein-glycolipid interaction by high performance mass spectrometry
Alina Secara, Raluca Ica, Mirela Sarbu, Laurentiu Popescu, Alina Petrut, Ligia Petrica, **Alina D. Zamfir**
17th student scientific session (April 11-13th, 2019, Arad, Romania)
POSTER PRESENTATION

249. Ion mobility mass spectrometry of gangliosides expressed in central nervous system
Mirela Sarbu, Anca Simulescu, Alina Petrut, Ligia Petrica, **Alina D. Zamfir**
17th student scientific session (April 11-13th, 2019, Arad, Romania)
POSTER PRESENTATION

250. Human gangliosidome in severe brain disorders: high resolution mass spectrometry study
Raluca Ica, Mirela Sarbu, Irma Cozma, Andrei J. Petrescu, Cristian V.A. Munteanu, **Alina D. Zamfir**
17th student scientific session (April 11-13th, 2019, Arad, Romania)
POSTER PRESENTATION

251. Determination of ganglioside composition, structure and functional interactions in human brain in health and disease by advanced mass spectrometry
Mirela Sarbu, Raluca Ica, Alina Petrut, Cristian Munteanu, David E. Clemmer, **Alina D. Zamfir**
8th International Symposium Research and Education in Innovation Era (May 23th-25th, 2019, Arad, Romania)
ORAL PRESENTATION

252. Mapping and sequencing of gangliosides in human cerebellum at different developmental stages by Orbitrap multistage mass spectrometry
Raluca Ica, Mirela Sarbu, Alina Petrut, Cristian V.A. Munteanu, Andrei J. Petrescu, Radu Albulescu, **Alina D. Zamfir**
67th ASMS Conference on Mass Spectrometry and Allied Topics (June 2nd-6th, 2019, Atlanta, SUA)
ORAL PRESENTATION

253. Ganglioside biomarker discovery and characterization in neurodevelopmental diseases by high resolution multistage mass spectrometry
Mirela Sarbu, Raluca Ica, Cristian V.A. Munteanu, Alina Petrut, **Alina D. Zamfir**
67th ASMS Conference on Mass Spectrometry and Allied Topics (June 2nd-6th, 2019, Atlanta, SUA)
POSTER PRESENTATION

254. Determination of protein-brain ganglioside interactions by chip-based nanoelectrospray quadrupole-time-of-flight tandem mass spectrometry
Laurentiu Popescu, Mirela Sarbu, Raluca Ica, Alina Petrut, **Alina D. Zamfir**
67th ASMS Conference on Mass Spectrometry and Allied Topics (June 2nd-6th, 2019, Atlanta, SUA)
POSTER PRESENTATION

255. Mapping and sequencing of ganglioside in cerebellum by nanoelectrospray high resolution tandem mass spectrometry
Raluca Ica, Mirela Sarbu, Alina Petrut, Cristian V.A. Munteanu, Andrei J. Petrescu, **Alina D. Zamfir**
16th International Conference on Nanosciences & Nanotechnologies (NN19) (July 1st-5th, 2019, Salonic, Grecia)
POSTER PRESENTATION

256. Determination of the structure and functions of glycopingolipids in human nucleus caudatus by Orbitrap multistage mass spectrometry
Mirela Sarbu, Raluca Ica, Alina Petrut, Cristian V.A. Munteanu, Andrei J. Petrescu, Alina D. Zamfir
16th International Conference on Nanosciences & Nanotechnologies (NN19) (July 1st-5th, 2019, Salonic, Grecia)
POSTER PRESENTATION

257. Development of chip-based mass spectrometry for structural and functional protein-brain ganglioside interactions

Raluca Ica, Alina Petrut, **Alina D. Zamfir**

16th International Conference on Nanosciences & Nanotechnologies (NN19) (July 1st-5th, 2019, Salonic, Grecia)

POSTER PRESENTATION

258. Nanoelectrospray high resolution mass spectrometry for the discovery of glycolipid biomarkers in neurodevelopmental disorders

Alina Petrut, Mirela Sarbu, Raluca Ica, Cristian V.A. Munteanu, **Alina D. Zamfir**

16th International Conference on Nanosciences & Nanotechnologies (NN19) (July 1st-5th, 2019, Salonic, Grecia)

ORAL PRESENTATION

259. An advanced mass spectrometry approach for glycolipid biomarker discovery in neurodevelopmental diseases

Mirela Sarbu, Cristian V.A. Munteanu, Raluca Ica, Alina Petrut, Andrei J. Petrescu, **Alina D. Zamfir**

The annual international conference of the Romanian Society of Biochemistry and Molecular Biology (September 26th-27th, 2019, Iasi, Romania)

POSTER PRESENTATION

260. Glycosphingolipidomics of human cerebellum by orbitrap multistage mass spectrometry

The annual international conference of the Romanian Society of Biochemistry and Molecular Biology (September 26th-27th, 2019, Iasi, Romania)

Raluca Ica, Alina Petrut, Andrei J. Petrescu, **Alina D. Zamfir**

POSTER PRESENTATION

261. Development of advanced mass spectrometric platforms for glycoconjugate mapping, biomarker discovery and study of their functional interactions

Alina D. Zamfir, Mirela Sarbu, Alina Petrut, Raluca Ica, Cristian V.A. Munteanu, Anca Simulescu, Andrei J. Petrescu

The annual international conference of the Romanian Society of Biochemistry and Molecular Biology (September 26th-27th, 2019, Iasi, Romania)

ORAL PRESENTATION

262. Screening and sequencing of lipid-linked carbohydrates in human caudate nucleus by nanoelectrospray ionization high resolution tandem mass spectrometry

Alina Petrut, Cristian V.A. Munteanu, Mirela Sarbu, Raluca Ica, **Alina D. Zamfir**, Andrei J. Petrescu.

The annual international conference of the Romanian Society of Biochemistry and Molecular Biology (September 26th-27th, 2019, Iasi, Romania)

POSTER PRESENTATION

263. Development of modern high resolution mass spectrometry platform for glycolipid mapping in defined human brain regions

Alina Petrut, Anca Simulescu, Raluca Ica, Mirela Sarbu, Cristian V.A. Popescu, **Alina D. Zamfir**, Andrei J. Petrescu

25th International Symposium on Analytical and Environmental Problems (October 7th-8th 2019, Szeged, Ungaria)

POSTER PRESENTATION

264. Determination of structural-functional interactions of gangliosides with peptides and proteins by microfluidics –mass spectrometry

Raluca Ica, Mirela Sarbu, Alina Secara, Laurentiu Popescu, Alina Petrut, **Alina D. Zamfir**

25th International Symposium on Analytical and Environmental Problems (October 7th-8th 2019, Szeged, Ungaria)

POSTER PRESENTATION

265. Advanced mass spectrometry techniques for determination of brain ganglioside expression and their functional interactions in healthy and diseased central nervous system

Mirela Sarbu, Raluca Ica, Alina Petrut, Cristian V.A. Munteanu, David E. Clemmer, **Alina D. Zamfir**

25th International Symposium on Analytical and Environmental Problems (October 7th-8th 2019, Szeged, Ungaria)

ORAL PRESENTATION

27.10. 2020

Prof. Dr. Abil. Alina-Diana Zamfir

