

INFORMAȚII PERSONALE ZAMFIR ALINA DIANA

 Timișoara, Romania
Calea Bogdanestiilor 22, apt. 12
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alina.zamfir@uav.ro

EXPERIENȚA PROFESIONALĂ

Septembrie 1992 –Septembrie 1999

Asistent universitar

Universitatea de Vest din Timisoara, Facultatea de Fizica

- Susținerea seminariilor și lucrărilor practice la disciplinele Metode Fizice de Studiu al Materialelor Solide, Fizica Corpului Solid
- Elaborarea de materiale didactice
- introducerea de noi lucrari de laborator
- conducere lucrari de licenta
- Implicarea în activități de cercetare științifică

Activități specifice învățământului superior

**Octombrie 1999
-Septembrie 2001**

Asistent cercetare (graduate student-doctorand)

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

- Activitati de cercetare in domeniul spectrometrie de masa biomedicale
- Elaborare articole stiintifice, prezentari la conferinte internationale

Activități specifice cercetarii

**Octombrie 2001
-Octombrie 2006**

Cercetator postdoctoral, Abilitat, Privat Dozent

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

activitati de cercetare in domeniul spectrometrie de masa biomedicale
elaborare articole stiintifice, prezentari la conferinte internationale
coordonare doctoranzi si masteranzi
cursuri, seminarii si activitati practice de laborator la "undergraduate studies": curs: Biomedizinische Massenspektrometrie (in Germana); Glycobiotechnology (in Engleza)

Activități specifice învățământului superior si cercetarii

Septembrie 1995 - prezent

Cercetator asociat (in prezent CS I)

Institutul National de Cercetare-Dezvoltare pentru Electrochimie si Materie Condensata, Timisoara

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 licența și masterat, disciplinele Analiza Fizico-Chimice, Metode Fizico-Chimice de Analiza, Analiza Instrumentala, Fizica, Metode spectrale de Analiză a Alimentelor
conducere lucrari de licența și dizertație
elaborare cărți, 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, societățile academice nationale și internationale, societatea civilă, mass-media
organizare de conferințe, 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 in co-tutela cu UMFVB Prof. Ligia Petrica și Prof. Constantin Ilie (doctoranzi: Alina Secara, Anca Simulescu, Irma Cozma).
introducere disciplina noua: Spectrometrie de Masa in Biomedicina, curs și laborator (Anul I, Master, Fizica Aplicata in Medicina)
predare: Biofizica generala (anul III Fizica Medicala, studii de licența), Spectrometrie de Masa in Biomedicina (anul I, FAM, Master)
activitati de cercetare cu doctoranzii

Activități didactice și de cercetare specifice învățământului superior

EDUCAȚIE ȘI FORMARE

- Decembrie 2005** **Abilitare in Biofizica**
Universitatea Wilhelm de Westfalia din Münster, Germania, Facultatea de Medicina, Institutul de Fizica Medicala si Biofizica, Departamentul de Biomedicina Analitica,
 Diploma de abilitare: die Venia Legendi für das Fach Biophysik, Fachbereich 5, W.W. Universität Münster/14.02. 2006
- Iunie 2013** **Abilitare in Fizica**
Universitatea de Vest din Timisoara
 Atestat de abilitare in domeniul Fizica, OM 5633 MD/11.12. 2013
- 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
- 1987-1992** **Licenta in Fizica (cu directie de aprofundare)**
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 INCEMC Timisoara în cadrul a peste 300 de conferințe științifice prezentate în Europa, America, Japonia, Canada, Israel, Emiratele Arabe Visting 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 ale Naturii, 2020-2024 Presedinte al Societății Române de Spectrometrie de Masă Prorector al Universității Aurel Vlaicu din Arad Director sau responsabil echipă parteneră în 16 ganturi naționale și internaționale câștigate prin competiție Mentor în granturi postdoctorale câștigate 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 organizaționale/manageriale	
Competențe dobândite la locul de muncă	<ul style="list-style-type: none">• 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 multicultural;• 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 <i>higher education</i> 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

- 299 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, Seattle, New Orleans, Houston, Minneapolis), 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)
- 111 publicatii in WEB of Science in extenso in reviste cu factor de impact (90 ca autor principal, prim sau corespondent), 15 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 29**

2011: **Premiul I.G. Murgulescu al Academiei Romane** pentru grupul de lucrari: Spectrometria de masa aplicata la studiul macromoleculilor 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 Universitatsklinikum 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 Nationala de Biologie Celulara

Referent la 33 de reviste cu factor de impact din strainatate

Editor: Mass Spectrometry in Life Safety, Springer, 2008

Guest Editor: Molecules (IF. 4.4)

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**

in: *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 (book chapter. In: *Carbohydrate Analysis by Modern Liquid Phase Separation Techniques*, © Elsevier, Ed. Ziad. El Rassi, Oklahoma (Stillwater, USA), pp.529–562, 2021, DOI:10.1016/B978-0-12-821447-3.00012-3

14. M. Sarbu, **A. D. Zamfir**, Modern techniques for separation, mass spectrometric detection and characterization of glycolipids (book

chapter. In: *Carbohydrate Analysis by Modern Liquid Phase Separation Techniques*, © Elsevier, Ed. Ziad. El Rassi, Oklahoma, (Stillwater, USA) pp.485–527, 2021, DOI:10.1016/B978-0-12-821447-3.00006-8

15. **A. D. Zamfir** Capillary zone electrophoresis-electrospray ionization tandem mass spectrometry for total analysis of

chondroitin/dermatan sulfate oligosaccharides, *Methods in Molecular Biology* © Springer, v. 2531, pp 163–184; DOI: 10.1007/978-1-0716-2493-7_11

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. Vukelic, J. Peter-Katalinic

Electrophoresis 23, 2894–2903, 2002

IF 4.325

4. Structural characterization of chondroitin/dermatan sulfate oligosaccharides from bovine aorta by capillary electrophoresis and electrospray ionization quadrupole time-of-flight tandem mass spectrometry
A. D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinic
Rapid Commun. Mass Spectrom. 16, 2015-2024, 2002
IF 2.372
5. Characterization of peptides by capillary zone electrophoresis and electrospray ionization quadrupole time-of-flight tandem mass spectrometry
L. Bindila, **A.D. Zamfir**, J. Peter-Katalinic
J. Sep. Science 15, 1101-1111, 2002
IF 1.591
6. Glucosylsulfones. Valuable syntons in obtaining C,O-glycosides
E. Sisu, V. Rusu, I. Sisu, **A.D. Zamfir**, J. Peter-Katalinic, C. Csunderlik
Revista de Chimie 53, 779-781, 2002
IF 0.281
7. The synthesis of lactose block - a valuable synton in glycosphingolipids synthesis
E. Sisu, I. Sisu, **A.D. Zamfir**, N. Dinca, C. Csunderlik, V. Rusu, J. Peter-Katalinic
Revista de Chimie 53, 648-651 2002
IF 0.281
8. Structural investigation of chondroitin/dermatan sulfate oligosaccharides from human skin fibroblast decorin
A.D. Zamfir, D. Seidler, H. Kresse, J. Peter-Katalinic
Glycobiology 11, 733-742, 2003
IF 3.490
9. Sialylation analysis of O-glycosylated sialylated peptides from urine of patients suffering from Schindler's disease by Fourier transform ion cyclotron resonance mass spectrometry and sustained off-resonance irradiation collision-induced dissociation
M. Froesch, L. Bindila, **A.D. Zamfir**, J. Peter-Katalinic
Rapid Commun. Mass Spectrom. 17, 2822-2832, 2003
IF 2.789
10. New glycosyl derivatives of 5-substituted-3-mercapto-1,2,4-triazole
E. Sisu, A. Lascu, V. Bercean, M.T. Caproiu, **A.D. Zamfir**, I. Sisu, C. Neanu, C. Csunderlik, V. Rusu, J. Peter-Katalinic
Revista de Chimie 54, 181-183, 2003
IF 0.281
11. Fully automated chip-based mass spectrometry for complex carbohydrate system analysis
A.D. Zamfir, S. Vakhruhev, A. Sterling, H. Niebel, M. Allen, J. Peter-Katalinic
Anal. Chem. 76, 2046-2054, 2004
IF 5.450
12. On-line sheathless capillary electrophoresis/nanoelectrospray ionization-tandem mass spectrometry for the analysis of glycosaminoglycan oligosaccharides
A.D. Zamfir, D. Seidler, E. Schonherr, H. Kresse, J. Peter-Katalinic
Electrophoresis 25, 2010-2016, 2004
IF 3.743
13. Fully automated chip-based nanoelectrospray tandem mass spectrometry of gangliosides from human cerebellum
A.D. Zamfir, Z. Vukelic, L. Bindila, R. Almeida, A. Sterling, M. Allen, J. Peter-Katalinic
J. American Soc. Mass Spectrom. 15, 1649-1657, 2004
IF 3.760
14. Off-line capillary electrophoresis/fully automated chip-based electrospray ionization quadrupole time-of-flight mass spectrometry and tandem mass spectrometry for glycoconjugate analysis
L. Bindila, R. Almeida, A. Sterling, M. Allen, J. Peter-Katalinic, **A.D. Zamfir**[#]
J. Mass Spectrom. 39, 1190-1201, 2004
IF 3.056
15. Coupling of fully automated chip electrospray to Fourier transform ion cyclotron resonance mass spectrometry for high-performance glycoscreening and sequencing
M. Froesch, L. Bindila, G. Baykut, M. Allen, J. Peter-Katalinic, **A.D. Zamfir**[#]
Rapid Commun. Mass Spectrom. 18, 3084-3092, 2004
IF 2.750

16. A thin chip microsyrayer system coupled to Fourier transform ion cyclotron resonance mass spectrometry for glycopeptide screening
 L. Bindila, M. Froesch, N. Lion, Ž. Vukelic, J. Rossier, H. Girault, J. Peter-Katalinić, **A.D. Zamfir**[#]
Rapid Commun. Mass Spectrom. 18, 2913-2920, 2004
IF 2.750
17. O₂An cross-ring cleavage as a general diagnostic tool for glycan assignment in glycoconjugate mixtures
 S. Y. Vakhrushev, **A.D. Zamfir**, J. Peter-Katalinić
J. American Soc. Mass Spectrom. 15, 1863-1868, 2004
IF 3.760
18. Capillary electrophoresis-mass spectrometry for glycoscreening in biomedical research
A.D. Zamfir, J. Peter-Katalinić
Electrophoresis 25, 1949-1963, 2004
IF 3.743
19. Chip electrospray mass spectrometry for carbohydrate analysis
A.D. Zamfir, L. Bindila, N. Lion, M. Allen, H. H. Girault, J. Peter-Katalinic,
Electrophoresis 26, 3650-3673, 2005
IF 3.850
20. Screening and sequencing of complex sialylated and sulfated glycosphingolipid mixtures by negative ion electrospray Fourier transform ion cyclotron resonance mass spectrometry
 Ž. Vukelic*, **A.D. Zamfir***, L. Bindila, M. Froesch, S. Usuki, R.Yu, J. Peter-Katalinić
 *equal contribution
J. American Soc. Mass Spectrom. 16, 571-580, 2005
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111. Sarbu M, Ica R, Sharon E, Clemmer DE, **A.D. Zamfir**[#]
Glycomics by ion mobility tandem mass spectrometry of chondroitin sulfate disaccharide domain in biglycan.
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IF 1.982

ARTICOLE IN EXTENSO PUBLICATE IN REVISTE INDEXATE BDI

1. *N*-glycan heterogeneity of cactus glycoproteins induced by tissue culture conditions
B. Balen, M. Krsnik-Rasol, **A.D. Zamfir**, I. Zadro, S. Vakhrushev, J. Peter-Katalinić

J. *Biomolec. Techn.* 18, 150-160, 2007 (<http://jbt.abrf.org/jbt-static/index.cfm/page/index.htm>)

2. A novel approach for ganglioside structural analysis based on electrospray multiple stage mass spectrometry

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

J. Biomolec. Techn. 18, 188-193, 2007 (<http://jbt.abrf.org/jbt-static/index.cfm/page/index.htm>)

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

Mod.Chem.Appl. 2014, 2, 138-141 (<https://www.omicsonline.org/modern-chemistry-applications.php>)

4. Actual trends in mass spectrometry of glycosaminoglycans

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

Molecular Life, 2017, 1, 80-85 (<http://molecular-life.org/>)

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1. Screening of complex glycopeptide mixture by on-line capillary electrophoresis/electrospray ionization time-of-flight mass spectrometry

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

Glycobiology, 10, 10, 1102, 2000

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

Glycobiology, 11, 10, 906-907, 2001

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

Glycobiology, 12, 10, 678, 2002

4. Glycomics of glycosaminoglycans

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

Glycobiology, 13, 11, 843, 2003

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.

J. Neurol. Sci. 333, e260-e261, 2013

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

Nephrology Dialysis Transplantation, 27, 170, 2012

LUCRARI PREZENTATE LA CONFERINTE, CONGRESE, WORKSHOP-URI SI SEMINARIILE DE SPECIALITATE

1. Capillary Electrophoresis & Mass Spectrometry of Complex Carbohydrates

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

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-Katalinic

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-Katalinic

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, 2001
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. Müthing, **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
Charite-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, 21st 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, Niederlande, 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, Niederlande, 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 microsyringes 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 tandem mass 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-of-flight 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 Vereniging 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-based 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. Eijnsink, 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, Vodice, 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 nano electrospray 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 nano electrospray 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 nano electrospray 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. Tibeia, 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 Vereining 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 nano electrospray 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. Șișu, 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. Alamäe, **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

Anniversary Symposium "20 years of Analytical Chemistry at

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

INVITED LECTURE

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. 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

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 mass spectrometry.

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 Society 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 Society 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 Bogнар
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. Alamăe, **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
ORAL 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 nano-electrospray 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 Colloquium, 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
POSTER 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
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 ganglioside 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 Albuлесcu, **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 glycosphingolipids 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 nano electrospray 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

266. Identification and characterization of ganglioside structures associated to brain aging by Orbitrap MS

Raluca Ica, Mirela Sarbu, Alina Petrut, Zeljka Vukelic, Andrei Petrescu, Alina D. Zamfir, 31st MassSpec Forum Vienna, Feb. 25-26, 2020

2. Microfluidics MS-based assay for studying the noncovalent interactions of β -Amyloid and α -Synuclein with normal brain and glioma gangliosides

Mirela Sarbu, Anca Simulescu, Željka Vukelić and **Alina D. Zamfir**

31st MassSpec Forum Vienna, Feb. 25-26, 2020

ORAL PRESENTATION

267. High resolution mass spectrometry profiling and fragmentation of glycolipids expressed in human hemangioma

Alina Petrut, Raluca Ica, Mirela Sarbu, Zeljka Vukelic, Cristian Munteanu, **Alina D. Zamfir**

31st MassSpec Forum Vienna, Feb. 25-26, 2020

268. Ion mobility mass spectrometry for ganglioside biomarker discovery in human cerebrospinal fluid

Mirela Sarbu, Željka Vukelić, David E. Clemmer, **Alina D. Zamfir**

31st MassSpec Forum Vienna, Feb. 25-26, 2020

POSTER PRESENTATION

269. Gangliosides associated to human brain development and aging: a high resolution mass spectrometry study

Mirela Sarbu, Raluca Ica, Alina Petrut, Željka Vukelić, **Alina D. Zamfir**

53rd Annual Conference of the DGMS, Mar. 1-5, 2020, Münster, Germania

ORAL PRESENTATION

270. Human cerebrospinal fluid: a comprehensive analysis of glycolipid expression and structure by ion mobility mass spectrometry

Mirela Sarbu, Željka Vukelić, David E. Clemmer, **Alina D. Zamfir**

68th ASMS Conference on Mass Spectrometry and Allied Topics, Houston USA, June 11-20, 2020 (on-line)

ORAL PRESENTATION

271. Detailed characterization of aged human brain gangliosidome by high resolution multistage mass spectrometry

Raluca Ica, Mirela Sarbu, Alina Petrut, Zeljka Vukelic, Andrei Petrescu, **Alina D. Zamfir**

68th ASMS Conference on Mass Spectrometry and Allied Topics, Houston USA, June 11-20, 2020 (on-line)

POSTER PRESENTATION

272. **A. D. Zamfir**, Developments and applications of chip-based mass spectrometry in glycomics of chondroitin/dermatan sulfate oligosaccharides, 2nd Advanced Chemistry World Congress, Berlin (Germania) 14-15 iunie 2021

INVITED LECTURE

273. M. Sarbu, D. Clemmer, **A.D.Zamfir**, Ion mobility mass spectrometry reveals the complexity of ganglioside structures expressed in human cerebrospinal fluid 2nd Advanced Chemistry World Congress, Berlin (Germania) 14-15 iunie 2021

ORAL PRESENTATION

274. R. Ica, M. Sarbu, C. V.A. Munteanu, **A. D. Zamfir**, Glycolipidomics of human brain hemangioma by high resolution multistage mass spectrometry, 2nd Advanced Chemistry World Congress, Berlin (Germania) 14-15 iunie 2021

POSTER PRESENTATION

275. **A.D. Zamfir**, M. Sarbu, R.Ica, D. E. Clemmer, Z.Vukelić, Brain glycomics by novel mass spectrometry approaches based on ion mobility and chip-nanoelectrospray ionization, 45th FEBS Congress, Ljubljana (Slovenia) 3-8 iulie 2021

INVITED LECTURE

276. R.Ica, M. Sarbu, Ž. Vukelić, **A. D. Zamfir**, Discovery of novel biomarkers in human brain hemangioma by advanced mass spectrometric methods, 45th FEBS Congress, Ljubljana (Slovenia) 3-8 iulie 2021

POSTER PRESENTATION

277. M. Sarbu, D.E. Clemmer, **A.D. Zamfir**, GalNAc-GD1 is a biomarker of cerebrospinal fluid as revealed by nanoESI ion mobility mass spectrometry, 18th International Conference on Nanosciences and Nanotechnologies (NN21), Salonic (Grecia), 6-9 iulie 2021;

POSTER PRESENTATION

278. R. Ica, Ž. Vukelić, **A. D. Zamfir**, Nanoelectrospray ionization high resolution mass spectrometry of glycolipids expressed in human cortex 18th International Conference on Nanosciences and Nanotechnologies (NN21), Salonic (Grecia), 6-9 iulie 2021

POSTER PRESENTATION

279. R. Ica, C. V.A. Munteanu, Ž. Vukelić, **A. D. Zamfir**, Determination of human motor cortex gangliosidome by nanoelectrospray high resolution multistage mass spectrometry, 69th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia (USA), 31 octombrie- 4 noiembrie 2021

POSTER PRESENTATION

280. M. Sarbu, L. Petrica, D.E. Clemmer, Ž. Vukelić, **A.D. Zamfir**, Ion mobility mass spectrometry of human glioblastoma gangliosides, 69th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia (USA), 31 octombrie-4 noiembrie 2021, poster

POSTER PRESENTATION

281. M. Sarbu, D.E. Clemmer, **A.D. Zamfir**, Ion mobility separation mass spectrometry reveals the occurrence in human cerebrospinal fluid of atypical GalNAc-GD1c glycoforms, 69th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia (USA), 31 octombrie-4 noiembrie 2021

POSTER PRESENTATION

282. Raluca Ica, Edie M. Sharon, Mirela Sarbu, David E. Clemmer, **Alina D. Zamfir**, Discovery and characterization of irregularly sulfated chondroitin/dermatan sulfate domains in human decorin by ion mobility tandem mass spectrometry, 70th ASMS Conference on Mass Spectrometry and Allied Topics (ASMS 2022), 5-9 iunie 2022 (Minneapolis, MN, USA)

POSTER PRESENTATION

283. Raluca Ica, Kristina Mlinac-Jerković, Katarina Ilić, Tomislav Sajko, **Alina D. Zamfir**, Svjetlana Kalanj-Bognar, Determination of gangliosides associated to temporal lobe epilepsy by high resolution tandem mass spectrometry, 70th ASMS Conference on Mass Spectrometry and Allied Topics (ASMS 2022), 5-9 iunie 2022 (Minneapolis, MN, USA)

POSTER PRESENTATION

284. Mirela Sarbu, Dragana Fabris, Željka Vukelić, David E. Clemmer, **Alina D. Zamfir**, IMS MS of human cerebrospinal fluid: novel insights into the structure of ganglioside isomers identified de novo, 32nd Mass Spectrometry Forum 2022 (Viena, Austria, 5-6 iulie 2022)

285. Mirela Sarbu, Raluca Ica, Roxana Biricioiu, David E. Clemmer, **Alina D. Zamfir**, IMS MS reveals novel hybrid chondroitin/dermatan sulfate domains in human decorin, 32nd Mass Spectrometry Forum 2022 (Viena, Austria, 5-6 iulie 2022)

POSTER PRESENTATION

286. R. Ica, Ž. Vukelić, **A. D. Zamfir**, Characterization by high resolution mass spectrometry of glycolipids expressed in human cortex, 32nd Mass Spectrometry Forum 2022 (Viena, Austria, 5-6 iulie 2022)

POSTER PRESENTATION

287. M. Sarbu, Ž. Vukelić, D.E Clemmer, **A.D. Zamfir**, Nanoelectrospray ionization ion mobility mass spectrometry for biomarker discovery in malignant brain tumors, 19th International Conference on Nanosciences & Nanotechnologies (NN22), 5-8 July 2022, Thessaloniki, Greece

POSTER PRESENTATION

288. Raluca Ica, Mirela Sarbu, Edie M. Sharon, David E. Clemmer, **Alina D. Zamfir**, Nanoelectrospray ion mobility mass spectrometry for the analysis of chondroitin/dermatan sulfate oligosaccharides, 19th International Conference on Nanosciences & Nanotechnologies

(NN22), 5-8 July 2022, Thessaloniki, Greece
POSTER PRESENTATION

289. Raluca Ica, Cristian V.A. Munteanu, Svjetlana Kalanj-Bognar, **Alina D. Zamfir** Implementation of advanced mass spectrometry methods based on nanoelectrospray for glycolipidome analysis in neurological diseases, 19th International Conference on Nanosciences & Nanotechnologies (NN22), 5-8 July 2022, Thessaloniki, Greece
POSTER PRESENTATION

290. Mirela Sarbu, Dragana Fabris, Željka Vukelić, David E. Clemmer, **Alina D. Zamfir**, Development and application of ion mobility tandem mass spectrometry for the investigation of human cerebrospinal fluid gangliosidome, 24th International Mass Spectrometry Conference (IMSC 2022), 27 august - 2 septembrie, Maastricht, Olanda
ORAL PRESENTATION

291. Raluca Ica, Mirela Sarbu, Cristian V.A. Munteanu, **Alina D. Zamfir**, High resolution mass spectrometry analysis of human brain hemangioma gangliosidome, 24th International Mass Spectrometry Conference (IMSC 2022), 27 august - 2 septembrie, Maastricht, Olanda
POSTER PRESENTATION

292. Mirela Sarbu, Raluca Ica, Edie M. Sharon, David E. Clemmer, **Alina D. Zamfir**, Combining size-exclusion chromatography and ion mobility mass spectrometry for the identification of chondroitin/dermatan sulfate octamers in decorin, 24th International Mass Spectrometry Conference (IMSC 2022), 27 august - 2 septembrie, Maastricht, Olanda
POSTER PRESENTATION

293. Raluca Ica, Mirela Sarbu, Roxana Biricioiu, Ana-Maria Crumpei, Edie Sharon, David E. Clemmer, **Alina D. Zamfir** Characterization of hybrid chondroitin/dermatan sulfate octasaccharide domains in human brain by ion mobility tandem mass spectrometry, 28th International Symposium on Analytical and Environmental Problems, 14-15 noiembrie 2022, Szeged, Ungaria
POSTER PRESENTATION

294. Mirela Sarbu, David E. Clemmer, Željka Vukelić, **Alina D. Zamfir** Screening and sequencing of sialylated glycosphingolipids in human glioblastoma by ion mobility mass spectrometry, 28th International Symposium on Analytical and Environmental Problems, 14-15 noiembrie 2022, Szeged, Ungaria
POSTER PRESENTATION

295. **Alina D. Zamfir** Mapping and Structural Analysis of Chondroitin/Dermatan Sulfate Domains in Human Brain by Advanced Mass Spectrometric Methods 3rd Global Summit on Brain Disorders & Therapeutics, February 15-16, 2023, Zurich, Elvetia
INVITED LECTURE

296. **Alina D. Zamfir** Glycomics of Human Brain Chondroitin/Dermatan Sulfate Domains by Advanced Mass Spectrometric Methods International Conference Smart Diaspora 2023, April 10-13, 2023, Timisoara, Romania
KEYNOTE LECTURE

297. **Alina D. Zamfir**, Mirela Sarbu, Raluca Ica, Edie Sharon, David E. Clemmer, Ion mobility mass spectrometry of chondroitin sulfate in human decorin, Vienna Mass Spectrometry Forum, April 13-14, Vienna, Austria
ORAL PRESENTATION

298. Raluca Ica, Kristina Mlinac-Jerković, Svjetlana Kalanj-Bognar, **Alina D. Zamfir**, Glycosphingolipidomics of temporal lobe epilepsy by high-resolution tandem mass spectrometry, Vienna Mass Spectrometry Forum, April 13-14, Vienna, Austria
POSTER PRESENTATION

299. Mirela Sarbu, Raluca Ica, Edie Sharon, David E. Clemmer, **Alina D. Zamfir**, IMS MS reveals oversulfated chondroitin sulfate disaccharide domains in human biglycan Vienna Mass Spectrometry Forum, April 13-14, Vienna, Austria
POSTER PRESENTATION

25.04. 2023

Prof. Dr. Abil. Alina-Diana Zamfir

