

LISTA DE LUCRARI

Prof. Dr. Abil. Alina-Diana ZAMFIR

TEZA DE DOCTORAT

IONIZAREA PRIN ELECTROSPRAY IN SPECTROMETRIA DE MASA, UNIVERSITATEA BABES-BOLYAI, CLUJ-NAPOCA, 2001

CARTI, MANUALE 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

CARTI SI CAPITOLE DE CARTI LA EDITURI INTERNATIONALE

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*

2. 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

in: *Advances in Mass Spectrometry*, Ashcroft, A.E., Brenton, G., Monaghan, J.J. Eds., Vol. 16, Elsevier, Amsterdam 2004, CD-ROM Suppl. No. 629

3. 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; B. Liu Ed., © *Humana Press Inc.*, Totowa, N.J., USA

4. 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**

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5. 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*

6. 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*

7. 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

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8. Levansucrases of *Pseudomonas* bacteria: novel approaches for protein expression, assay of enzymes, fructooligosaccharides and heterooligofructans

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Carbohydr. Chem. 38, 176–191, 2012, © *The Royal Society of Chemistry, UK*

9. 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

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

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12. Sustainable nanosystem development for mass spectrometry. Applications in proteomics and glycomics

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in: *Sustainable Nanosystems Development, Properties and Applications*, 2016, 535-568, ISSN: 2327-5448 © *IGI Global*, Hershey, PA, USA

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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, © *Humana Press*, New York, NY

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ARTICOLE PUBLICATE IN EXTENSO IN REVISTE INDEXATE ISI în reviste cu factor de impact ridicat, precum: *Angewandte Chemie* (IF 11.7); *Lab on a Chip* (IF 6.1); *Anal. Chem.* (IF 6.3); *Biochim. Biophys. Acta-Mol. Cel. Biol. of Lipids* (IF 5.1); *J. Proteome Res.* (IF 4.2); *J. Chromatogr. A* (IF 4.1);

Proteomics (IF 4.0); Glycobiology (IF 3.9); Anal. Bioanal. Chem. (IF 3.6); Matrix Biology (IF 3.5); Amino Acids (IF 3.3); Mol. Biosystems (IF 3.2); Electrophoresis (IF 3.0); J. Am. Soc. Mass Spectrom. (IF 3.0); Glycoconj. J (IF 2.5); J. Mass Spectrom. (IF 2.4); Rapid Commun. Mass Spectrom. (IF 2.26); Anal. Biochem. (IF 2.21), etc.

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Amino Acids, 2015, 47, 2399-2407
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Sârbu M, Munteanu CVA, Dehelean L, Petrescu AJ, Peter-Katalinić J, **A.D. Zamfir**
J. Mass Spectrom. 2015, 50, 1044–1056
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Robu AC, Popescu L, Munteanu CVA, Seidler DG, **A.D. Zamfir**.
Anal. Biochem. 2015, 485, 122-131
82. B subunit monomers of Cholerae toxin bind G1 ganglioside class as revealed by chip-nanoelectrospray multistage mass spectrometry.
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Anal. Chem. 2016, 88, 5166-5178
84. Mass spectrometry of gangliosides in extracranial tumors: Application to adrenal neuroblastoma.
Robu A, Schiopu C, Capitan F, **A.D. Zamfir**
Anal. Biochem. 2016, 509, 1-11
85. Applications of capillary electrophoresis electrospray ionization mass spectrometry in glycosaminoglycan analysis.
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86. Evaluation of antioxidant activities of some small fruits containing anthocyanins using electrochemical and chemical methods
A. Cata, M Stefanut, R. Pop, C. Tanasie, C. Mosoarca, **A.D. Zamfir**
Croatica Chem. Acta, 2016, 89, 37-48
87. Assessment of ganglioside age-related and topographic specificity in human brain by Orbitrap mass spectrometry.
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Anal. Biochem. 2017, 521, 40-54
88. Electrospray ionization ion mobility mass spectrometry provides novel insights into the pattern and activity of fetal hippocampus gangliosides
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89. Structure-to-function relationship of carbohydrates in the mechanism of lysosomal storage disorders (LSDs)

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

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90. Structural analysis by electrospray ionization mass spectrometry of GT1 ganglioside fraction isolated from fetal brain

I. Cozma, M Sarbu, C Ilie, AD Zamfir

J. Carbohydr. Chem. 2017, 36, 247-264

ARTICOLE IN EXTENSO PUBLICATE IN REVISTE INDEXATE BDI

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

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

Mod.Chem.Appl. 2014, 2, 138-141

2. Actual trends in mass spectrometry of glycosaminoglycans

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

Molecular Life, 2017, 1, 80-85

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

1. Capillary Electrophoresis & Mass Spectrometry of Complex Carbohydrates
A.D.Zamfir, S. König, J. Althoff, J.Peter-Katalinić
13th Int.Symp.High Performance Capillary Electrophoresis and Related Microscale Techniques, Saarbrücken, Germany, Feb.20-24, 2000, Book of Abstracts, p. 136
2. Capillary Electrophoresis and ESI-QTOF Mass Spectrometry for Identification of Carbohydrates
A.D.Zamfir, S. König, S., J. Althoff, J.Peter-Katalinić
German Society for Mass Spectrometry Conference, Berlin, Feb 27 - March 1 2000, Book of Abstracts, p.142
3. Strategies for Sequencing Complex Oligosaccharides by Mass Spectrometry
M. Jovanović, B.Maček, D. Šagi, **A.D.Zamfir**, S. König, J. Peter-Katalinić
VII-th International Summer Course on Biophysics, Rovinj, Croatia, Sept.14-25, 2000
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
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
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
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
 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
 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
 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
 11. Glycoproteomics of Hereditary Diseases
J. Peter-Katalinić, T. Marquardt, D. Šagi, **A.D.Zamfir**, D. Schindler
Fifth International Symposium on Mass Spectrometry in the Health & Life Sciences: Molecular & Cellular Proteomics, San Francisco, CA., USA, Aug. 9-12, 26-30, 2001
 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
 13. Practical Approach for Identification of Complex Ganglioside Mixtures by High Performance Capillary Electrophoresis-Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry
Z. Vukelić, **A.D.Zamfir**, J. Peter-Katalinić
1st Summer Course on Mass Spectrometry in Biotechnology and Medicine, Dubrovnik, Croatia, Sept. 16-21, 2001
 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
 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

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,
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,
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
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
20. Novel Method for Mapping and Sequencing of Gangliosides by Capillary Electrophoresis/Electrospray Ionization Quadrupole Time-of-Flight Tandem Mass Spectrometry
A.D.Zamfir, Z. Vukelic, 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
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
22. Capillary Electrophoresis and Nanoelectrospray Ionization Mass Spectrometry on Peptides
 L. Bindila, **A.D.Zamfir**, J. Peter-Katalinić
 International Anniversary Conference, Timisoara, Romania, July 5, 2002, Pp11
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, Timisoara, Romania, 19-21 Sept., 2002
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
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

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
27. Novel Strategies Employing on-line Sheathless Capillary Electrophoresis Nanoelectrospray Ionization Mass Spectrometry for Glycoscreening
 Invited lecture: **A.D.Zamfir**, J. Peter-Katalinić
 International Conference of Physics, Timisoara, Romania, Nov.28-29, 2002
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
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
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
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
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
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
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
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
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
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; in: *Advances in Mass Spectrometry* (Ashcroft, A.E., Brenton, G.,
Monaghan, J.J. Eds.), Vol. 16, Elsevier, Amsterdam 2004, CD-ROM Suppl. No. 629
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
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
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, Z. Vukelic
XIVth Joint Meeting on Glycobiology, Lille, France, 20-22 Nov. 2003
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
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
43. Potentials of Modern Mass Spectrometric Methods in Neuroscience Research and
Neuropathological Diagnostics: Mapping and Sequencing of Brain Gangliosides
Z. Vukelic, V. Metelmann-Strupat, **A.D.Zamfir**, L. Bindila, M. Froesch, J. Peter-
Katalinić
1st Croatian Neuroscience Meeting, Zagreb, Croatia, Nov. 21-22, 2003
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
45. Negative Ion NanoESI FTICR MS of Glycosphingolipids
L. Bindila, M. Froesch, **A.D.Zamfir**, S. Usuki, Z. Vukelic, R. K. Yu, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Leipzig, Germany, 7-10 March,
2004
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

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
48. Ionization and Fragmentation of Highly Sialylated Glycosphingolipids by FTICR MS
M. Froesch, L. Bindila, Z. Vukelic, **A.D.Zamfir**, J. Peter-Katalinić
7th European FTMS Conference, Konstanz, Germany, Conference, 28 March-01 April, 2004
49. FTICR of Glycoconjugates
M. Mormann, M. Froesch, L. Bindila, Z. Vukelic, **A.D.Zamfir**, J. Peter-Katalinić
7th European FTMS Conference, Konstanz, Germany, 28 March-01 April, 2004
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
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
52. FTICR MS of Sialylated Gangliosides from Human Brain Biopsies
M. Froesch, Z. Vukelic, 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
53. Structural and Quantitative Analysis of Gangliosides from Gliosarcoma and Meningioma
S. Kalanj-Bognar, Ž. Vukelic, **A.D.Zamfir**, L. Bindila, M. Froesch, J. Peter-Katalinić
Congress of the Croatian Society for Biochemistry and Molecular Biology, Bjelolastica, Croatia, September 30-October 2, 2004
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
55. Fully-Automated chip-Based NanoElectrospray Tandem Mass Spectrometry of Gangliosides from Human Cerebellum
A.D.Zamfir, L. Bindila, R. Almeida, A. Sterling, Ž. Vukelic, M. Allen, J. Peter-Katalinić
Advion User Meeting, 21th LC/MS Montreux Symposium, Montreux, Switzerland, November 10-12, 2004
56. Implementation of Chip Electrospray Mass Spectrometry in Structural Glycobiology
M. Froesch, L. Bindila, Z. Vukelic, J. Peter-Katalinić, **A. D. Zamfir**
15th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Biochemie und Molekularbiologie“, the „Nederlandse Vereining voor Glycobiologie“

and the „Groupe Lillois de Glycobiologie“, Wageningen, Niederlande, November 29-30, 2004, Glycoconjugate J. 21, 398, 2004

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 Vereining voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Wageningen, Niederlande, November 29-30, 2004, Glycoconjugate J. 21, 404, 2004
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 Vereining voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Wageningen, Niederlande, November 29-30, 2004, Glycoconjugate J. 21, 400, 2004
59. Thin chip polymer microsprays for glycoconjugate analysis of Schindler disease patients
N. Lion, L. Bindila, M. Froesch, Ž. Vukelic, 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
60. Chip-Based Ionization Mass Spectrometry for Glycoscreening in Biomedical Research
A.D.Zamfir, Ž. Vukelic, L. Bindila, M. Froesch, J. Peter-Katalinić
18th International Symposium on Microscale Bioseparations, New Orleans, LA, USA, February 12-17, 2005
61. Determination of ganglioside expression in human glicosarcoma by chip electrospray tandemmass spectrometry
A.D.Zamfir, L. Bindila, Ž. Vukelic, J. Peter-Katalinić
German Society for Mass Spectrometry Conference, Rostock, Germany, 6-9 March, 2005
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
63. On-line reverse polarity capillary electrophoresis coupled to electrospray quadrupole time-offlight mass spectrometry for analysis of glycopeptides from Schindler's disease
L. Bindila, J. Peter-Katalinić, **A.D.Zamfir**
German Society for Mass Spectrometry Conference, Rostock, Germany, 6-9 March, 2005
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. Vukelic, 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
67. Biomarker discovery in human gliosarcoma by fully automated chip-based mass spectrometry
 R. Almeida, Ž. Vukelic, L. Bindila, S. Kalanj-Bognar, J. Peter-Katalinić, **A.D.Zamfir**
 LC/MS symposium, Ithaca, USA, July 20-22, 2005
68. Determination of ganglioside pattern in human hippocampus by fully automated chip-based nano-electrospray mass spectrometry
 M. Zarei, Ž. Vukelic, J. Peter-Katalinić, **A.D.Zamfir**
 16th Joint Meeting of the „Studiengruppe Glykobiologie der Gesellschaft für Glycobiologie“, Hannover, Germany, October, 27-29, 2005
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
70. Capillary electrophoresis and chip-based mass spectrometry
A.D.Zamfir
 Invited lecture: Chemistry Institute of Romanian Academy, Timisoara, Romania, 15.12.2005
71. Lab-on-a-chip: a new perspective in analytical and instrumental chemistry
A.D.Zamfir
 Invited lecture: Chemistry Institute of Romanian Academy, Timisoara, Romania, 22.12.2005
72. Analysis of human hippocampus gangliosides by fully-automated chip-based nano-electrospray tandem mass spectrometry
A.D.Zamfir, M. Zarei, Z. Vukelic, J. Peter-Katalinić
 19th International Symposium on Microscale Bioseparations, Amsterdam, The Netherlands, January 22-26, 2006
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, The Netherlands, January 22-26, 2006
74. Multimethodological mass spectrometry approach for compositional and structural analysis of human brain gangliosides
 M. Zarei, S. Vakhrushev, Z. Vukelić, A. Schneider, A. Ingendoh, J. Peter-Katalinić, **A.D.Zamfir**
 German Society for Mass Spectrometry Conference, Mainz, Germany, 5-9 March, 2006

75. Human gliosarcoma-associated gangliosides: a high performance mass spectrometric determination
Z. 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
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
77. Human glioblastoma gangliosides-mass spectrometry investigation
A.D.Zamfir
Invited lecture: International Conference on Neuronal Excitability, Bucharest, Romania, Sept. 1-3, 2006
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, Sept. 3-6, 2006
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, Sept. 3-6, 2006
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. Cederkvist, **A.D.Zamfir**, S. Bahrke, V.G.H. Eijssink, M. Sørli, J. Peter-Katalinić, M.G. Peter
7th European Chitin Society Conference, Montpellier, France, Sept. 6-9, 2006
81. Determination of ganglioside pattern in human hippocampus by chip-based nanoelectrospray ionization tandem mass spectrometry
Z. Vukelić, M. Zarei, J. Peter-Katalinic, **A.D.Zamfir**
International Conference of the Croatian Biochemical Society, Vodice, Croatia, Oct. 4-9, 2006
82. Chip electrospray mass spectrometry for glycoscreening in biomedical research
A.D.Zamfir
International Conference of the Croatian Biochemical Society, Vodice, Croatia, Oct. 4-9, 2006
83. Glycomics and systems biology: new targets for microfluidics-mass spectrometry
A.D.Zamfir
International Conference Research and Education in Innovation Era, Arad, Romania, Nov. 9-12, 2006
84. Z. Vukelić, C. Ratiu, A. Serb, C. Flangea, E. Sisu, I. Grozescu, **A.D.Zamfir**
High capacity ion trap multiple stage sequencing of human brain gangliosides
International Conference Research and Education in Innovation Era, Arad, Romania, Nov. 9-12, 2006

85. Novel mass spectrometric strategies for determination of protein O- and N-glycosylation
A.D.Zamfir
Invited lecture, University of Konstanz, Germany, Nov. 21, 2006
86. Mass spectrometry of carbohydrates
A. D. Zamfir
Invited lecture: University of Konstanz, Germany, Nov. 23, 2006
87. A novel method for structural analysis of human brain gangliosides based on nanoelectrospray multiple stage sequencing mass spectrometry
A. D. Zamfir, Ž. Vukelić, A. Schneider, E. Sisu, A. Ingendoh
Vienna MS Forum, Viena, Austria, Feb. 19-22, 2007
88. Structural analysis of human decorin dermatan sulfate by nanoelectrospray ionization quadrupole time-of-flight tandem mass spectrometry
F. Harja, C. Flangea, D. G. Seidler, N. Dinca, E. Sisu, **A. D. Zamfir**
German Society for Mass Spectrometry Conference, Bremen, Germany, 11-14 March, 2007
89. Mapping and sequencing of gangliosides from defined regions of human brain by nanoelectrospray ionization quadrupole time-of-flight tandem mass spectrometry A. Serb, F. Harja, Ž. Vukelić, N. Dinca, E. Sisu, **A. D. Zamfir**
German Society for Mass Spectrometry Conference, Bremen, Germany, 11-14 March, 2007
90. Electrospray ionization mass spectrometry: principles and biomedical applications
A.D. Zamfir
Invited lecture: Institute for Physiological Chemistry, May, 19, 2007, Muenster, Germania,
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
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
93. Principles and applications of electrospray ionization mass spectrometry
A.D. Zamfir
Invited Plenary lecture: 1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania
94. Applications of fully automated chip-based electrospray in biological mass spectrometry
A. D. Zamfir
Invited Tutorial lecture: 1st Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety under NATO auspices, Sept. 23-27, 2007, Herculane, Romania

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
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
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
98. Compositional and structural analysis of long chain polysaccharides by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry
Irina 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
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
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
101. Microspray high capacity ion trap multiple stage mass spectrometry of polysaccharides functionalized with aromatic amines
I. Sisu, E. Sisu, N. Dinca, Vasile 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
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
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

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
105. Electrospray ionization tandem mass spectrometric investigation of *Melissa officinalis* oil
D. Tibeana, 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
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 Vereininging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Nov. 5-8, 2007, Lille, France
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 Vereininging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Nov. 5-8, 2007, Lille, France
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 Vereininging voor Glycobiologie“ and the „Groupe Lillois de Glycobiologie“, Nov. 5-8, 2007, Lille, France
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
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
111. High throughput brain ganglioside mapping and multistage sequencing by fully automated chip-based nanoelectrospray high capacity ion trap mass spectrometry
A.F. Serb, C. Mosoarca, C. Flangea, E. Sisu, Ž. Vukelić, **A. D. Zamfir**
Germany Society for Mass Spectrometry Conference, DGMS, March 3-6, 2008, Giessen, Germany
112. Novel mass spectrometric methods and protocols for protein glycosylation analysis
A.D. Zamfir
Invited lecture, April 28-May 5, 2008, Konstanz, Germany
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
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
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, Timisoara, Romania
116. Mass Spectrometric Mapping and Sequencing of Gangliosides Expressed in Normal Adult Human Cerebellum
A. Lenin, E. Şişu, Ž. Vukelić, **Alina D. Zamfir**
Conferinta Internationala de Chimie, 29-31 Mai 2008, Timisoara, Romania
117. Investigation of volatile oil extracted from *Melissa officinalis* by electrospray ionization tandem mass spectrometry
C.C. Toma, I. B. Pancan, M. Chiriță, **A. D. Zamfir**
Conferinta Internationala de Chimie, 29-31 Mai 2008, Timisoara, Romania
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, Timisoara, Romania
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, Timisoara, Romania
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, Timisoara, Romania
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, Z. Vukelić, E. Sisu
6th FENS Forum of European Neuroscience Societies, July 12-18 2008, Geneva, Switzerland
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. Zagrean, **A. D. Zamfir**
6th FENS Forum of European Neuroscience Societies, July 12-18 2008, Geneva, Switzerland
123. Glycomics of human fetal brain gangliosides by chip electrospray ionization multistage mass spectrometry
A. D. Zamfir

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

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, Timisoara, Romania
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, Timisoara, Romania
126. Lab-on-a chip: a novel concept in glycomics
A. D. Zamfir
5th International Conference on Condensed Matter Physics, July 16-18, 2008, Timisoara, Romania
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
128. Compositional and structural determination of brain gangliosides from mass spectrometric data by software-assisted assignment
C. Schiopu, E. Sisu, Z. Vukelic, **A.D. Zamfir**
Neuroscience Workshop-Conferinta Internationala ANCS: Diaspora in Cercetarea Stiintifica Romaneasca, 17-19 Sept. 2008, Bucuresti, Romania
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, Z. Vukelic, L. Zagrean, **A.D. Zamfir**
Neuroscience Workshop-Conferinta Internationala ANCS: Diaspora in Cercetarea Stiintifica Romaneasca, 17-19 Sept. 2008, Bucuresti, Romania
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
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
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

133. Computer software for interpretation of brain ganglioside mass spectra
C. Schiopu, E. Sisu, S. Nadaban, C. Fifer, Z. Vukelic, **A.D. Zamfir**
2nd International Symposium Research and Education in Innovation Era, 20-21 Nov.,
2008, Arad, Romania
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
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
136. 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
Oral presentation: 2nd International Symposium Research and Education in Innovation
Era, 20-21 Nov., 2008, Arad, Romania
137. 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**
Invited lecture: Austrian Mass Spectrometry Forum, Feb. 17-19, 2009, Vienna,
Austria
138. 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
139. A new Mass Spectrometry Society – Perspectives and plans
A.D. Zamfir
Invited lecture: Anniversary Conference, 20 years of Analytical Chemistry in
Konstanz, March 5-7, 2009, Konstanz, Germany
140. 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
141. 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

142. 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
143. 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
144. 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
145. 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
146. Chip-based mass spectrometry for glycomics and glycoproteomics
A. D. Zamfir
Invited lecture: University of Konstanz, May 13, 2009
147. 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
148. 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
149. Combining fully-automated chip-nanoelectrospray ion trap mass spectrometry and GanglioSoft 1.2 computer software for identification of human hemangioma gangliosides
C. Schiopu, A. Serb, E. Sisu, Ž. Vukeli, **A. D. Zamfir**
57th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, May 31-June 6, 2009, Philadelphia, USA
150. C. Flangea, C. Schiopu, F. Capitan, C. Mosoarca, M. Manea, E. Sisu, **A.D. Zamfir**, A novel platform for top-down proteomics: chip-based nanoelectrospray combined with electron transfer dissociation mass spectrometry. Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland
151. M. Galusca, C. Cozma, S. Dilly, **A. D. Zamfir**, M. Przybylski Alpha-galactosidase A activity monitoring by fluorometry and mass

- spectrometry. Romanian Society for Mass Spectrometry Conference, 1st-5th May 2011, Timisoara, Romania
152. M. Galusca, C. Cozma, **A. D. Zamfir**, M. Przybylski Affinity binding study of Abeta–autoantibody CDR peptide to Abeta (12-40) peptide. Romanian Society for Mass Spectrometry Conference, 25th-29th April 2010, Sinaia, Romania
 153. M. Galusca, C. Cozma, **A.D. Zamfir**, M. Przybylski Affinity binding study of Abeta–autoantibody CDR peptide to Abeta (12-40) peptide. Deutsche Gesellschaft für Massenspektrometrie Conference, 7th-10th March 2010, Halle, Germany
 154. M.I. Iurascu, C. Cozma, M. Galusca, M. Przybylski, **A.D. Zamfir** Oligomerisation studies of modified A-beta peptides using mass spectrometry. Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland
 155. C. Cozma, M.I. Iurascu, M. Galusca, S. Maeser, M. Przybylski, **A.D. Zamfir** Clinical diagnostic in dry blood spots by fluorometry and multiple reaction monitoring mass spectrometry. Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland
 156. C. Mosoarca, **A.D. Zamfir**, Chip-based nanoelectrospray mass spectrometry of fructooligosaccharides produced by levansucrases from *Pseudomonas Syringae* Pv. Tomato and *P. Chlororaphis* Subs. *P. Aurantiaca*. Joint Conference of Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4-7 March 2012, Poznan, Poland
 157. C. Flangea, M. Galusca, M. Manea, **A.D. Zamfir**, High throughput top-down proteomics by chip-based nanoelectrospray in combination with electron transfer dissociation mass spectrometry. 4th International Congress and the 30th Annual Session of the Romanian Society for Cell Biology, 13-17 June 2012, Satu Mare, Romania
 158. C. Flangea, M. Galusca, **A.D. Zamfir**, Rapid diagnostic by fully automated chip-based nanoelectrospray ionization mass spectrometry. 4th International Congress and the 30th Annual Session of the Romanian Society for Cell Biology, 13-17 June 2012, Satu Mare, Romania
 159. C. Flangea, C. Mosoarca, M. Manea, C. Schiopu, E. Sisu, **A.D. Zamfir**, Fully automated chip-based nanoelectrospray combined with electron transfer dissociation for high throughput top-down proteomics. International Mass Spectrometry Conference, 11-22 September 2012, Kyoto, Japan
 160. M. Galusca, C. Flangea, C. Mosoarca, C. Cozma, **A.D. Zamfir**, Chip-based electrospray ionization tandem mass spectrometry a novel tool for rapid diagnostic of Fabry disease. International Mass Spectrometry Conference, 11-22 September 2012, Kyoto, Japan
 161. F. Capitan, C. Schiopu, C. Mosoarca, C. Flangea, C. Ilie, I. Velea, E. Sisu, **A.D. Zamfir**, Compositional and structural analysis of gangliosides in human fetal cerebellum by chip electrospray mass spectrometry. International Symposium Research and Education in Innovation Era, 8-9 November 2012, Arad, Romania
 162. M. Galusca, C. Flangea, C. Mosoarca, C. Cozma, **A.D. Zamfir**, Chip-based electrospray ionization tandem mass spectrometry a novel tool for rapid diagnostic. International Symposium Research and Education in Innovation Era, 8-9 November 2012, Arad, Romania

163. F. Capitan, C. Schiopu, C. Flangea, Ž. Vukelić, **A.D. Zamfir**, Mapping and sequencing of gangliosides in human astrocytoma by Orbitrap mass spectrometry. 24th Mass Spectrometry Forum, 19-23 February, 2013, Vienna, Austria
164. M. Galusca, C. Flangea, C. Mosoarca, C. Cozma, **A.D. Zamfir**, Rapid diagnosis of Fabry disease by a novel method based on automated chip-nanoelectrospray ionization mass spectrometry. 24th Mass Spectrometry Forum, 19-23 February 2013, Vienna, Austria
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