Curriculum vitae

1. General Information

Date of Birth: 25 April 1976

Married/two children

Address: Group of Biochemistry, Faculty of Chemistry,

"Al. I. Cuza" University of Iasi,

Bd. Carol I, No.11 700506, Iasi, Romania

Phone: + 40 232-201279Fax: + 40 232-201313E-Mail: <u>brindusa.petre@uaic.ro</u>



2. Education

| Z. Laucation | |
|--------------|---|
| 2008 -2011 | PostDoctoral Researcher, Laboratory of Analytical Chemistry and Biopolymer Structure Analysis, Department of Chemistry, University of Konstanz in collaboration with Washington University in St. Louis, MO, USA. |
| 2003 - 2008 | PhD, Laboratory of Analytical Chemistry and Biopolymer Structure Analysis, Department of Chemistry, University of Konstanz, Dissertation title: "Analytical Development and Biochemical Application of Mass Spectrometry in Combination with Immunoaffinity Methods for Identification and Structural Characterisation of Protein Nitration". |
| 2000 – 2002 | M. Sc., Enzymologie und Biotechnologie, "Al. I. Cuza" University of Iasi, Romania and Laboratory of Analytical Chemistry and Biopolymer Structure Analysis, University of Konstanz, Master thesis: "Isolation and structural characterisation of porin ion channel protein by electrophoretic and mass spectrometric methods". |
| 1996 - 2000 | B.Sc., Chemistry (summa cum laude), "Al. I. Cuza" University of Iasi, Romania, Diplom title: "Enzymatic Biosensor". |

3. Professional activities

| 11/2011- to date | Associate Professor (teaching course and laboratory of (i) Proteomics and (ii) Synthesis and characterization of polypeptides) and Scientific researcher (project manager: PN-II-RU-TE-2011-3-0038) at Faculty of Chemsitry, "Al. I. Cuza" University of Iasi, Romania. |
|-------------------|---|
| 10/2010 - 02/2011 | Postdoctoral scientific exchange program at Washington University in St. Louis, supervisor Prof. Dr. Michael Gross. |
| 05/2008 - 08/2008 | Postdoctoral scientific exchange program at Washington University in St. Louis, supervisor Prof. Dr. Michael Gross. |

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- 2003 2011 Supervisor for Master and PhD students in peptide chemsitry: Synthesis, chemical and structural characterisation of peptides, and affinity mass spectrometric approaches, Laboratory of Analytical Chemistry and Biopolymer Structure Analysis, University of Konstanz.
- 2003 2008 German Chemical Society (GDCh) cours "High Resolution Biopolymer Mass Spectrometry", University of Konstanz, (co-organizer/instructor).
 - 2004 7th European Workshop on Fourier Transform Mass Spectrometry (EFTMS), University of Konstanz, Germany (co-organizer/ participant).
- 04/2001- 06/2001 Special course: Medical Biochemistry, University of Medicine "Ghe.T.Popa" lasi, Romania (participant).

4. Invited Talks

- NATO Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety **Herculane, Romania** "Molecular Recognition Specificity of anti-3-nitrotyrosine Antibodies Revealed by Affinity-Mass Spectrometry and Immunoanalytical Methods"
- 2007 Swiss Proteomics Society (SPS), **Lausanne**, **Switzerland** "New mass spectrometric approach to molecular characterization of tyrosine nitration in human Eosinophil Proteins"
- 2008 56th ASMS Conference on Mass Spectrometry, **Denver, USA** "Proteolytic-affinity extraction and FTICR mass spectrometry PROFINEX: A new approach for identification of nitration in cellular proteins" (workshop)
- Oxidative Post-Translational Modifications of Proteins in Cardiovascular Disease conference, **Boston**, **USA** "Molecular recognition specificity of anti 3-nitro-tyrosine antibodies revealed by affinity-mass spectrometry and immuno-analytical methods".
 - 2009 DGMS-workshop: Affinity- Mass Spectrometry Methods & Bioanalytical Applications, **Konstanz**, **DE** "Affinity-MS for identification of post-translational modifications: Nitration".
- 2012 Affinity-MS workshop: Methods & Applications in immunology, proteomics and biomedicine, **Konstanz**, **DE** "Oxidative tyrosine modifications in proteins: cystic fibrosis patients".
- 2013 Workshop: MSLife High Performance Mass Spectrometry: Integrating new Tools & Methods with Applications in Life Sciences, Konstanz, DE - "Protein Nitration Analysis using Affinity- Mass Spectrometry".
- 2013 11th Conference on Colloid and Surface Chemistry, lasi, RO "Molecular

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characterization of neuronal protein aggregates by Mass spectrometry-based footprinting methods".

4. Fellowships

| 10/2013 – 06/2014 | RAF fellowship at "P. Poni" Institute of Macromolecular Chemistry, Iasi; | | | |
|-------------------|--|--|--|--|
| 07- 08/ 2013 | DAAD fellowship at University of Konstanz, Germany; | | | |
| 10/2010 - 01/2011 | DAAD fellowship at Washington University in St. Louis, MO, USA; | | | |
| 05/2010 – 07/2011 | NSF fellowship at Washington University in St. Louis, MO, USA; | | | |
| 07/2007 – 09/2008 | WIN-Kolleg fellowship of Heidelberger Academy of Sciences, | | | |
| Germany; | | | | |
| 10/2001 – 06/2002 | Socrates - Erasmus fellowship at University of Konstanz, Germany; | | | |

5. Awards

| 2008 | Price for best | Oral Presentation | at OPTM Conference | , Boston, USA (2008); |
|------|----------------|-------------------|--------------------|-----------------------|
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2009 Price for best Poster at DGMS Conference, Konstanz, Germany (2009);

2013 Price for best Oral Presentation at CCSC, P. Poni Institute, Iasi, Romania (2013);

6. Memberships in scientific organizations

Deutsche Gesellschaft für Massenspektrometrie (DGMS)

American Society for Mass Spectrometry (ASMS)

Swiss Proteomics Society (SPS)

Romanian Society for Mass Spectrometry (RSMS)

Affinity - Mass Spectrometry: special interest group

7. Synergistic Activities

Journal reviewer for: Journal of Peptide Science, Central European Journal of Chemistry and Acta Chemica Iasi.

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