

# **Curriculum vitae**

## **Zsolt Stefánka**

### **Personal data**

Date and place of birth: 04 February 1976, Budapest, Hungary

### **Contacts**

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### **Work experience**

2005. 05.01. – present Senior research fellow (Institute of Isotopes of the Hungarian Academy of Sciences, Budapest)

2003. 05. 01 – 2005. 04. 30. Postdoctoral research fellow (University of Natural Resources and Applied Life Sciences, Vienna)

2003. 02. 01. - 2003. 04. 30. Assistant lecturer (Department of Applied Chemistry, Corvinus University)

### **Education and training**

1999-2003 PhD studies at the University of Horticulture and Food Industry (since 01.01.2001. Szent István University)

1994-1999 University of Horticulture and Food Industry, Faculty of Food Sciences  
Subject of the theses: Method development for selenium speciation

### **Achievements**

2007 Bolyai János Research Prize for young scientist – Hungarian Academy of Sciences

2003 PhD (summa cum laude)

2003 Szent István Bursary for high quality researchers - Szent István University, Budapest, Hungary, 2003

2000 Research prize for young scientist donated by the International Graduate School Zittau (IHI-Zittau) and by Perkin-Elmer – Zittau, Germany

1999 Engineer for Food Industry (MSc; cum laude)

### **Fellowships**

- Research fellowship of the Hungarian Scholarship Board (Hungarian State Eötvös Scholarship) - Division of Analytical Chemistry on the University of Agricultural Sciences (BOKU, Wien) (01. 05 2003 – 31.10.2003)

- Research fellowship of the Scientific and Technological Foundation (TÉT) - Institute of Analytical Chemistry, University Leipzig (01.06. 2002 - 30. 07. 2002)
- Research fellowship of the German Academic Exchange Service (DAAD) - Institute of Analytical Chemistry, University Leipzig (01.09. 2001 - 31. 01. 2002)

### **Personal skills and competences**

- Hungarian (mother tongue)
- English (intermediate level)
- German (upper level)

### **Research activities**

- Method development for selenium speciation using hyphenated analytical techniques (HPLC-AFS, HPLC-ICP-MS)
- Determination of cancerostatic platinum compounds from environmental samples in the low ng/g concentration by HPLC-ICP-MS
- Multielemental analysis from short transient signals by ICP-TOFMS using special sample introduction techniques (electrochemical hydride generation, electrothermal vaporization)
- Analysis of uranium-based nuclear materials of unknown origin (illicit trafficking) using destructive and laser ablation methods
- Method development for the analysis of long-lived radionuclides (Ra-226, Th, U, Pu, Am-241) from environmental, biological and safeguards samples
- Method development for the investigation of uranium and transuranium elements (Pu, Am, Cm) accumulation on stainless steel surfaces
- Application of ICP-MS methods (elemental fingerprint and isotopic ratio determination) for food authenticity studies

### **Publications**

SCI: 19; Non-SCI: 4; Book chapter: 2; Conference contributions: 63;  
Cumulative impact factor: 40,25; Citations: 143

### **Research grants**

- Hungarian Scientific Research Fund (OTKA F 032296) Sample preparation methods for speciation in environmental samples (co-investigator), 2000-2002
- 5<sup>th</sup> Framework Program; TRAP-LRM (EC-Growth contract G6MA-CT2000-02006) Network for preparation of certified reference materials (co-investigator), 2000
- 5<sup>th</sup> Framework Program; SEAS (GRD1-2000-25019): Determination of As species in chicken, rice, fish and soil and Se species in yeast and cereals (co-investigator), 2000
- Ministry of Education: Organisation of the 4<sup>th</sup> European Environmental Analytical Conference (member of the organising committee), 2001

- Hungarian Atomic Energy Authority: Testing of the Element2 ICP-MS (OAH-ÁNI-ABA-03/05; co-investigator), 2005
- Hungarian Atomic Energy Authority: Characterisation of nuclear materials by ICP-MS MS (OAH-ÁNI-ABA-05/06; principal investigator), 2006
- Hungarian Atomic Energy Authority: Analysis of environmental samples and nuclear materials by ICP-MS (OAH-ÁNI-ABA-12/06; principal investigator), 2006
- Hungarian Scientific Research Fund: Characterisation of low radioactivity samples using ICP-MS (OTKA F61087; principal investigator), 2005-2008
- Austrian-Hungarian Action Foundation: Austrian-Hungarian PhD Network for food authenticity studies (OMAA 67öu2; principal investigator), 2007-2008