

Curriculum vitae

Dr. Éva Széles



Personal data

Date and place of birth: 23 January 1979, Berettyóújfalu, Hungary

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Work experiences

2010.01.01. – present: Senior research scientist fellow, head of the ICP-MS laboratory (Institute of Isotopes of the Hungarian Academy of Sciences, Budapest)

2008.05.01. – 2009.12.31. Research scientist fellow (Institute of Isotopes of the Hungarian Academy of Sciences, Budapest)

2007.09.01 – 2008.04.30. Postdoctoral research fellow (University of Debrecen, Centre for Agricultural Sciences, Institute of Food Sciences, Quality Assurance and Microbiology, Debrecen)

2003.09.01. - 2004.08.31. Research assistant (University of Debrecen, Centre for Agricultural Sciences, Department of Food Sciences and Quality Assurance, Debrecen)

Education and training

2004-2007 PhD studies at the University of Debrecen, Centre for Agricultural Sciences

Subject of the theses: Studying of change of selenium species in soil and plant samples from a long-term field experiment

1997-2002 Chemist MSc studies, University of Debrecen, Faculty of Sciences

Achievements

2009 Training course on Radiation Safety

2007 PhD (summa cum laude)

2007 Training course on Analytical Quality Control and method validation in support to the Water Framework Directive), Egmond an Zee, Netherlands 2007

2003 Thermo Elemental Training Course, Winsford, UK, Advanced Operator Training and Software Applications of ICP-MS technique

Fellowships

- Joint Research Analysis at Institute for Transuranium Elements, Karlsruhe, Germany, 12.2010
- Research fellowship of the Scientific and Technological Foundation (TÉT) - Agricultural University of Athens (01.09.2005- 31.10.2005)
- Research fellowship of the German Academic Exchange Service (DAAD) - Institute of Spectrochemistry and Applied Spectroscopy (ISAS), Dortmund, Germany (01.10.2002 - 31.07.2003)

Personal skills and competences

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

Appreciations, awards

- 2th poster award from the Hungarian Academy of Sciences, 5th Aps-Adria Scientific Workshop title of the poster: “Studying the nutritional properties and quality parameters in Hungarian honey samples”

Others

- 2010.07 - Work package leader in a FP7 project Funded under 7th FWP (Seventh Framework Programme). Title: BiO-dOSimetric Tools for triagE to Responders (BOOSTER)
- 2007.06.10-15. Chair position at the 3. Young Scientist Session (7th International Symposium and Summer School on Bioanalysis, Pécs, Hungary)
- 2007.11.07. Presentation at a user meeting of the Perkin-Elmer company (Budapest, Hungary). Title of the presentation: „Application of ICP-OES technique in practice: precision, sensitivity, robustness”
- 2009.05.26-28. Chair position at the „Illicit trafficking and portable detection systems” Session (31th Esarda Annual meeting, Vilnius, Lithuania)
- 2009.04.- Application of the ICP-MS laboratory through the Hungarian Atomic Energy Authority for joining to the Network of Analytical Laboratories (NWAL) of International Atomic Energy Agency as a candidate laboratory
- 2010.05. Accreditation of the ICP-MS laboratory by Hungarian Accreditation Board. Working of laboratory complies with the criteria of MSZ EN ISO/IEC 17025:2005 standard as testing laboratory with the registration number: NAT-1-1630/2010.

Research activities

Present activities:

- Analysis of nuclear materials by ICP-SFMS
- Development and apply of radiochemical and analysis methods in nuclear forensics and nuclear safeguards
- Analysis of actinides in environmental, biological and geological samples by ICP-SFMS
- Method development for bulk and particle analysis of nuclear safeguards swipe samples by ICP-SFMS and LA-ICP-SFMS

- Precise uranium and plutonium isotope ratio measurements by ICP-SFMS and LA-ICP-SFMS
- Multielemental analysis of environmental samples by ICP-SFMS

Former activities:

- Selenium speciation analysis using hyphenated analytical techniques (HPLC-ICP-MS)
- Elemental analysis of different sample types by FAAS, GFAAS, ICP-OES and Q-ICP-MS
- Multielemental analysis of different honey types by Q-ICP-MS and ICP-OES for configuration of a traceability system of honey
- Method development for short transient signals-method by FFAAS technique using special sample introduction technique (flame furnace technique)
- Studying of effects of heavy metals and toxic elements in soil and plants

Publications

SCI: 14; Non-SCI: 18; Conference contributions: 98;

Cumulative impact factor: 15.297; Independent Citations: 26