SAMPLE TEMPLATE - HARVEY W. WILEY AWARD NOMINATING FORM

TO: Chair, Harvey W. Wiley Award Committee
AOAC INTERNATIONAL
2275 Research Boulevard, Suite 300
Rockville, Maryland 20850-3250

I hereby submit to you the following nomination for the Harvey W. Wiley Award.

1. **Name of Candidate**: **Michelangelo** **ANASTASSIADES**
(FIRST) (MIDDLE) (LAST)

2. **Home Address:** Breitscheidstrasse 74
(STREET ADDRESS)

70176 Stuttgart / Germany
(CITY) (STATE/PROVINCE) (ZIP/POSTAL CODE) (COUNTRY)

0049-1709038147 ma@cvuas.bwl.de
(PHONE) (FAX) (E-MAIL)

3. **Business Address:** CVUA Stuttgart / EURL-SRM
(AGENCY OR FIRM)

Schaflandstrasse 3/2
(STREET ADDRESS)

70736 Fellbach / Germany
(CITY) (STATE/PROVINCE) (ZIP/POSTAL CODE) (COUNTRY)

0049-71134261124 michelangelo.anastassiades@cvuas.bwl.de
(PHONE) (FAX) (E-MAIL)

4. **Letter of Support: The nominee shall provide two (2) letters of recommendation of support from professional peers for this nomination, including one from the nominator.**

5. **Present Position** (Brief description of job, duties, and responsibilities.):

Dr. Anastassiades is the **Head of the EU Reference Laboratory for pesticides requiring Single Residue Methods (EURL-SRM).** He has been assuming this position **since 2006**, when the EURL-SRM was established.

His main duties, which are aligned with the EURL-SRM role and mission, include the following:

- **Developing methods:** The focus is on pesticides and metabolites that are not amenable or not easily amenable to multiresidue methods (SRM-compounds). The goal is to develop methods that can **accommodate as many of these difficult compounds as possible,** and that are attractive and **fit-for purpose** to be routinely used **for regulatory controls** (see publications).
- **Coordinating and interacting with the Network of Official and National Reference Laboratories** which consists of ~ 300 labs and ~1100 analysts (from EU, EU candidate and EFTA countries). To facilitate this task, the EURL-SRM developed a web-database. Interaction is accomplished through workshops, trainings, the website and personal communication.
- **Technical assistance and knowledge transfer** to colleagues from EU and other countries **through workshops and trainings**. Workshops and trainings with participants from **EU countries** are organized regularly, partly in collaboration with other EURLs. Knowledge transfer is also provided to **other countries,** within the framework of **EU and UN programs**.
- **Organizing Proficiency Tests**. These are organized annually, with typically >120 labs from EU and other countries participating. The focus is on pesticides that are difficult to analyze. The results are thoroughly discussed with the labs and assistance is provided to eliminate sources of error.
- **Cooperation with standardization bodies** (e.g., DIN, CEN, ISO and German official methods commission) for the standardization of own methods (QuEChERS, QuPPe, QuOil) and other methods.
- **Organization of inter-laboratory method validation tests**. Several rounds of inter-laboratory method validations have been organized in order to assist the standardization of methods at national or international level. Such validation exercises were run for the **QuEChERS method (citrate buffered)** that is an EN standard since 2009 (EN 15662); the **QuOil method**, which became a German standard and is currently in the process of becoming EN standard; and the **QuPPe method**, which is in the process of becoming EN standard.
- **Collection and dissemination of pesticide-related information.** For this purpose several online platforms were developed within the EURL-SRM:
    - The **EURL-Web-Portal** (www.eurl-pesticides.eu, established in 2006), which hosts EURL news and publications (including methods);
    - The **EURL-DataPool** (www.eurl-datapool.eu, established in 2008), in which multiple data of interest to pesticide analysts is tracked and is accessible to the labs through export tools. The DataPool includes among others pesticide profiles on ~1700 compounds (pesticides and metabolites) and validation data by various analytical methods for >1100 compounds (>600,000 datasets). **Each lab has its own area** within the DataPool, where the personnel, the analytical scope (commodities, analytes), the validation results, the PT results, and other information can be stored and accessed. Through **useful exporting tools**, labs can determine their analytical gaps and calculate their overall measurement uncertainty.
    - The **pesticides-online database** (www.pesticides-online.eu) (operating since 2002) hosts a collection of residue findings from various labs. It helps labs check the results of other labs and decide about the relevance of certain pesticide/commodity combinations.

- **Technical assistance to EU risk assessment and risk management bodies** (EFSA/DG-SANTE). This activity is broadly diversified and includes for example:
    - Revision of regulation drafts
    - Periodic revision of the SANTE "Analytical quality control and method validation procedures for pesticide residues analysis in food and feed" guidelines for laboratories (the latest version: SANTE/12682/2019)[1].
    - Analytical evaluation of pesticides under evaluation, as regards the plausibility and monitor ability of the proposed residue definitions, the proposal of alternative residue definitions, and the assessment of achievable LOQs (which are used to set the lowest EU-MRLs).
    - Development/adjustment of methods to be implemented by routine labs (see list of methods).
    - Assistance in designing the EU-coordinated pesticide monitoring program and the SANTE-Working Document to be considered in National Monitoring Programs[2].
- **Cooperation with international organizations** (e.g. FAO/JMPR, CODEX, UNIDO, CEN, AOAC, …)

6. **Attach a copy of the nominee's current curriculum vitae reflecting education, professional career, membership and honors received. Attached additional sheets, if needed.**

   Please see nominee's curriculum vitae as an attachment below.

7. **Provide a concise description of the nominee's contribution to the development of analytical standards and or methods that support the regulation of materials used in agriculture, food or drug production, or that address safety and consumer protection.**

   Dr. Anastassiades' **most important contribution** is the **development of the QuEChERS (Quick, Easy, Cheap, Effective, Rugged, and Safe) method** that, without exaggeration, revolutionized pesticide residue analysis and affected many other areas (such as veterinary drug residue and various contaminant analyses), where QuEChERS-style methods replaced less effective procedures. The first QuEChERS publication in the Journal of AOAC Int. (Anastassiades *et al.*: Fast and Easy Multiresidue Method for the Determination of Pesticide Residues in Produce by Acetonitrile Extraction/Partitioning and Dispersive Solid-Phase Extraction; *J. AOAC Int*. 86 (2003) 412- 431) is the most widely cited and known publication in pesticide residue analysis. However, the QuEChERS method is certainly not the only contribution that Dr. Anastassiades made to the development of analytical methods and standards that support the regulations and address food safety.

   From the very beginnings of his professional career, Dr. Anastassiades has immersed himself into the world of pesticide residue analysis. Dissatisfied with the very poor and arbitrarily selected scope of analytes monitored by laboratories in the mid-1990s, by the complexity, wastefulness and poor scope of the methods employed, and by the inability of regulatory and commercial labs to monitor most MRLs, Dr. Anastassiades committed himself to work towards improving this situation. For laboratories to gain the ability to effectively and efficiently monitor pesticide residues in food and to ensure adequate consumer protections and compliance with good agricultural practice rules, he assessed that the following key levers need to be addressed in a holistic approach:

[1] https://www.eurl-pesticides.eu/userfiles/file/EurlALL/AqcGuidance_SANTE_2019_12682.pdf

[2] https://ec.europa.eu/food/system/files/2021-12/pesticides_mrl_guidelines_wrkdoc_12745.pdf

1. Development of **simple multiresidue methods** to cover the bulk of the pesticide spectrum;
2. Development of **simple "single" residue methods** that, if possible, cover many "difficult" analytes in one go (this requires analytes grouping based on their properties);
3. Development of **an online platform allowing systematic collection of valuable data** (on e.g. pesticide use, pesticide residues, analytical properties) **and at the same time a convenient access to information by the analytical community** to facilitates the work of pesticide analysts and enable them to do judiciously prioritize and design the expansion of their analytical scope;
4. Open **interaction with commercial labs and the pesticide-producing companies** in order to increase trust and start exchanging information and know-how;
5. **Development of potent centralized labs** that are able to cope with the huge task of adequately controlling pesticide residues.

His achievements in these areas are truly enormous and include the following:

a) **Development of QuEChERS method,** for the analysis of the vast majority of the pesticides (during his appointment at the USDA in the group of Dr. Lehotay), which led to the development of two important official methods for pesticide residue analysis: EN 15662 and AOAC 2007.01.

b) **Introduction of dispersive SPE cleanup (dSPE) concept** in pesticide residue analysis to facilitate the removal of matrix components from the extract. This fast and low-cost clean-up concept is now being used in many other applications.

c) **Introduction of analyte protectants (AP) concept** to compensate for matrix effects in GC analysis, thus improving quantitation accuracy.

d) **Development of citrate-buffered QuEChERS method**, which became EN 15662 official method. Based on data collected from PTs, more than 80% of the pesticide labs in Europe employ this approach.

e) **Development of QuPPe (Quick Polar Pesticides) method**, a simple method for the analysis of polar analytes not amenable to QuEChERS. This procedure, which was first introduced on the EURL-SRM website in 2009, has been gradually expanded and updated 18 times in the last 12 years and covers >50 analytes with one extraction and different LC-MS/MS methods.

f) **Development numerous QuEChERS variants** for compounds not amenable to the normal QuEChERS approach (see the list of publications), this includes a method **integrating an alkaline hydrolysis step** to release acidic pesticides that are originally present as esters or conjugates. This method replaced labor-intensive, derivatization-based methods that were previously used for this important group of pesticides.

g) **Development of QuOil-method** method for the analysis of pesticides in oils and high-fat content products, which were not amenable to the QuEChERS procedure.

h) **Development of QuMFu (Quick method for fumigants)** for the analysis of fumigants in dry food.

i) **Synthesis of selected isotope labelled internal standards**, which were not commercially available at that time (Chlorate, Perchlorate, Phosphonate, Diquat), and their distribution to labs around the world. Interaction with chemical companies to encourage them to include certain isotope labelled compounds in their portfolio to facilitate analysis by labs (mainly QuPPe compounds but also other compounds).

j) **Implementation of pesticides-online platform** (introduced in 2002) designed to integrate in one platform information of interest to pesticide residue analysts (www.pesticides-online.eu). This opened the way to gain added value by interlinking and data mining information. Eventually, pesticides-online was trimmed to only contain the residue data with all other areas migrating to the interconnected EURL-DataPool.

k) **Implementation of the EURL-DataPool** platform, which contains analytically relevant information on pesticides as well as various data from pesticide laboratories. Labs may **upload validation data** (currently the database contains ~600,000 validation data points on >1000 compounds and ~250 matrices). In addition, the **results of all proficiency tests** run by the EURLs are stored in the database. With the **MU-Tool**, labs can combine their own validation data and their own PT results in order to **assess the overall measurement uncertainty**. By combining the available data on residue findings, toxicology, pesticide use etc. a **Pesticide Ranking List** is computed using a point system[3]. Using the **CheckYourScope-Tool** within the DataPool, labs can compare their own pesticide scope with the ranking list and detect analytical gaps. As analytical information (e.g. suitable methods, suitable measurement techniques) is also provided, the labs can prioritize the pesticides to be introduced in their scope.

l) **Organization of proficiency tests and participation in the Scientific Committee for the evaluation of PTs of four EU-Reference labs.** PTs are organized annually and Dr. Anastassiades is very much dedicated in assisting labs in discovering sources of errors and eliminating them. The Scientific Committee for the evaluation of PTs decides on the rules required to evaluate the PTs organized by the four EU Reference Labs on pesticides.

m) **Contribution in drafting the official Guidelines for Performance Criteria and Quality Control in the EU** (the latest version: SANTE/12682/2019 "Analytical quality control and method validation procedures for pesticide residues analysis in food and feed"). Dr. Anastassiades has been participating in the committee responsible for the periodic revision of these guidelines since 2005. These **Guidelines are used worldwide by accreditation bodies** as a basis for assessing the method validation and quality control procedures of pesticide residue laboratories.

n) **Contribution to method standardization.** Dr. Anastassiades has been participating in meetings of German (DIN, §64-LFGB Working Group) and international (CEN) standardization bodies since 2004 and has been involved in all standardization activities related to pesticides undertaken by these bodies since then. He has also participated in the AOAC working group developing SMPR for chlorate and perchlorate in infant formula, baby foods and their major ingredients. Among the methods developed by him, the QuEChERS method (citrate buffered) was standardized as EN 15662 in 2009 and revised in 2018, the QuOil method has become a German official method in 2013 (BVL L 13.04-5: 2013-08) and is in the process of standardization at CEN level. The QuPPe method is also in the process of standardization.

o) **Technical assistance to EFSA and the European Commission.** This activity has a great regulatory impact as it concerns the revision of regulation drafts, the intervention in the design of monitoring programs, the revision of CODEX documents, the (re-) evaluation of pesticide MRLs and many other tasks. The EURL-SRM coordinates the EURL-input related to the (re-)evaluation of pesticide MRLs, which includes both theoretical and experimental work. Experimental work involves the validation of the relevant pesticides and metabolites in different commodities, the estimation of suitable LOQs (that are used to set the lowest MRLs), and the development of methods that are suitable for routine analysis. The proposed residue definitions are carefully examined from the suitability and analytical amenability and modifications are proposed where needed. Hundreds of compounds have been evaluated so far and numerous reports were submitted to EFSA and DG-SANTE.

p) **Publications in books, journals and on the EURL-SRM website**. Not counting the numerous poster and oral presentations in workshops and conferences, Dr. Anastassiades published roughly 40 papers in journals and books and roughly 60 papers published on the EURL-and CVUA Stuttgart website (this does not include the reports on EU-proficiency tests, survey reports and many other documents). Evaluation reports on pesticides, drafted upon request by EFSA and published on the EFSA website, are not included in the above census.

[3] https://www.eurl-pesticides.eu/library/docs/srm/cysPointSystem.PDF

q) **Contributions to conferences, meetings and trainings (oral and poster presentations)**: Dr. Anastassiades is a very popular speaker and frequently invited to give presentations and keynote lectures on a wide variety of topics or to participate in expert panel discussions at various congresses and meetings in all continents (e.g. EPRW, IUPAC, NACRW, RAFA, LAPRW, ICFA and MGPR). He is also frequently invited to contribute in activities focusing on knowledge-transfer and capacity-building under the umbrella of various UN, EU and other bodies. He has participated in various training programs and workshops in a large number of countries in all continents. Dr. Anastassiades has presented >150 oral presentations and >120 posters in various conferences around the globe.

r) **Promotion of his vision to create fewer but better dedicated labs to reduce splitting of resources in pesticide residue controls.** Dr. Anastassiades promoted this concept with lectures in different places (e.g. in 2002 at Int. Fresenius Conference Pesticides & Contaminants in Food; in 2003 at 2nd MGPR symposium and in 2004 at 5th EPRW in Stockholm and in 2006 in an invited lecture in Vienna). Locally, this led to the CVUA Stuttgart (the lab, in which he works) becoming a centralized lab for pesticide residues in food of plant origin within the German Federal state Baden-Württemberg (from originally 5 labs involved in this task). Other German Federal States and other countries eventually followed with similar centralization of their pesticide laboratories (e.g. Austria, Greece).

8. Describe how the contribution has been used by regulatory agencies or the analytical community in support of safety or consumer protection and its impact.

Dr. Anastassiades has been very influential within the global pesticide residue analysis and also broader chemical residue and contaminants community, where basically everyone knows and benefited from the QuEChERS methodology. The QuEChERS method represents his most important contribution with an immense impact on the development of analytical methods in the recent years. However, as highlighted above, Dr. Anastassiades has contributed and keeps contributing many more methods and ideas that have transformed the field and keep shaping it thanks to his clear vision and enormous personal dedication to help and support other analytical chemists and laboratories.

His analytical methods are widely used by many labs around the world. Judging from method information submitted during the EU proficiency tests, more than 80% of laboratories within the EU, both in the regulatory and private sector, employ the QuEChERS method (citrate buffered). Various QuEChERS variations published in the EURL-website are widely used and in some cases virtually all PT participating laboratories reported using them. Same applies to the QuPPe method, where between 50 and 90% of the labs (depending on the compound) employ this approach.

Dr. Anastassiades' publications were cited in more than 6000 papers according to Research Gate and this is despite the fact that many of his contributions have been published as open-source documents within the EURL-SRM website.

More than 7000 experts from around the world are registered as users of the databases run by the EURL-SRM that Dr. Anastassiades is heading since 2006. As the Head of the EURL-SRM, he is very frequently consulted by EU bodies when it comes to various aspects of analytical relevance, such as setting of residue definitions and MRLs or drafting guidelines.

9. **List of publications that support the contribution. Kindly highlight the publications that support your contributions.**

Publications in Journals and Books

(NOTE: This listing does not include posters, oral presentations and abstracts thereof):

1.	**PhD Thesis:** **Development of Fast Methods for the Residue Analysis of Pesticides in Fruits and Vegetables using SFE – a Contribution to Reduce Analytical Deficits,** *Shaker Verlag Aachen* (2001) ISBN: 3-8265-9618-8 (in German)
2.	**Book Chapter:** **Sample Handling and Clean-up Procedures II- New Developments;** *Chromatographic-Mass Spectrometric Food Analysis for Trace Determination of Pesticide Residues*, Editor Amadeo R. Fernández-Alba, Volume XLIII of *„Comprehensive Analytical Chemistry"* Editor D. Barceló, *Elsevier B.V. Amsterdam* (2005) 113-233, ISBN:0-44450943-7
3.	**Book Chapter:** **Recent Developments in QuEChERS Methodology for Pesticide Multiresidue Analysis;** *Pesticide Chemistry*, Editors Ohkawa, Miyagawa, Lee (Eds.), *WILEY-VCH Verlag GmbH Co. KGaA, Weinheim* (2007) 439-458, ISBN: 978-3-527-31663-2
4.	**Book Chapter:** **Modern Sample Preparation Methods for Pesticide Multiresidue Analysis;** *Élelmiszerbiztonság megítélési módszerei II:* Editors *Ambrus Árpád: Edison House Holding Zrt. Budapest* (2010) 717-734, ISBN: 978-963-88947-1-7
	PUBLICATIONS IN JOURNALS
5.	**Determination of Phenoxyalkanoic Acid Herbicides in Plant Extracts after Derivatisation with 2,2,2-Trichloroethanol;** *Deutsche Lebensmittelrundschau* (DLR) **92** (1996) 175-183 *(in German)*
6.	**Multiresidue Method for the Determination of Pesticide Residues in Citrus Fruits by GC-MSD -** Part 1: **"Theory and Method Development**; *Deutsche Lebensmittelrundschau* **93** (1997) 316-327 *(in German)*
7.	**Multiresidue Method for the Determination of Pesticide Residues in Citrus Fruits by GC-MSD -** Part 2**: "Analysis of Samples from the Market;** *Deutsche Lebensmittelrundschau* **93** (1997) 393-396 *(in German)*
8.	**Multiresidue Method for the Determination of Pesticide Residues in Citrus Fruits by GC-MSD -** Part 3**: "Determination of 2,4-D after alkaline treatment;** *Deutsche Lebensmittelrundschau* **94** (1998) 45-49 *(in German)*
9.	**Multiresidue Method for the Determination of Pesticide Residues in Citrus Fruits by GC-MSD -** Part 4**: "Analysis of Organotin Compounds;** *Deutsche Lebensmittelrundschau* (DLR) **96** (2000) 466-477 *(in German)*
10.	**Analysis of Carbendazim/Benomyl, Thiophanate Methyl and 2,4-D in Fruits and Vegetables after Supercritical Fluid Extraction**; *Journal of Chromatography-A* **825** (1998) 45-54
11.	**Comparison of ASE with Traditional Extraction Methods** *Chemie in Labor und Biotechnik* **50** (1999) 4-6 *(in German)*
12.	**Analysis of Benzoyl-Phenyl-Urea Pesticides in Fruits and Vegetables – Methodology and Residue Data;** *Deutsche Lebensmittelrundschau* (DLR) **97** (2001) 176-190
13.	**Development, validation, and application of an acetylcholinesterase-biosensor test for the direct detection of insecticide residues in infant food;** *Biosensors & Bioelectronics* **17** (2002) 1095-1105
14.	**Determination of pesticide residues in nonfatty foods by supercritical fluid extraction and gas chromatography/mass spectrometry: collaborative study***; J. AOAC Int***. 85** (2002) 1148-66;
15.	**Simultaneous Determination of Neonicotinoid Insecticides in Fruits and Vegetables by LC/MS and LC/MS-MS – Methodology and Residue Data;** *Deutsche Lebensmittelrundschau* (DLR) **99** (2003) 188-196
16.	**Quick, Easy, Cheap, Effective, Rugged, and Safe (QuEChERS) approach for the determination of pesticide residues**; *WTQA 2002 – 18th Annual Waste Testing & Quality Assurance Symposium; "Sound Science Through Effective Project Planning."; Jan (2003)*
17.	**Fast and Easy Multiresidue Method for the Determination of Pesticide Residues in Produce by Acetonitrile Extraction/Partitioning and Dispersive Solid-Phase Extraction;** *J. AOAC Int***. 86** (2003) 412-431
18.	**Evaluation of Analyte Protectants to Improve Gas Chromatographic Analysis of Pesticides;** *Journal of Chromatography-A* **1015** (2003) 163-184
19.	**Analysis of Pesticide Residues;** *Chemie in Unserer Zeit* **37** (2003) 324-335
20.	**Simultaneous Determination of Macrocyclic Lactone Insecticides in Fruits and Vegetables using LC/MS-MS – Methodology and Residue Data;** *Deutsche Lebensmittelrundschau* (DLR) **100** (2004) 140-150
21.	**Combination of Analyte Protectants to Overcome Matrix Effects in Routine GC Analysis of Pesticide Residues in Food Matrices;** *Anal. Chem. 77 (2005) 8129-8137*

22.	**Comparison of SIM and MRM for the Quantitative Confirmation of Pesticide Residues in Food**; *Application Note, Waters Corporation, Manchester, 2006*
23.	**Pestizide und Probenvorbereitung;** *Laborpraxis*, April (2006) 28-29
24.	**Pesticide Residues in Strawberries Sampled from the Market of the Federal State of Baden Württemberg between 2002 and 2005;** *Journal für Verbraucherschutz und Lebensmittelsicherheit 2* (2006)
25.	**Analysis of pesticide residues using the Quick Easy Cheap Effective Rugged and Safe (QuEChERS) pesticide multiresidue method in combination with gas and liquid chromatography and tandem mass spectrometric detection;** *Anal Bioanal Chem. 389(6): Nov (2007); 1697-714*
26.	**The Guar Gum Case: Contamination with PCP and Dioxins and Analytical Problems**; Conference Papers: 28th International Symposium on Halogenated Persistent Organic Pollutants; Birmingham, UK - Volume: 7 Aug (2008)
27.	**Efficiency evaluation of the main multiresidue methods used in Europe for the analysis of amitraz and its major metabolites;** *J AOAC Int. 93(2); Mar-Apr (2010); 380-8*
28.	**Development and independent laboratory validation of a simple method for the determination of paraquat and diquat in potato, cereals and pulses;** *Anal Bioanal Chem. 404(8); Nov (2012); 2465-74*
29.	**Análisis multiresiduo de 41 pesticidas en miel por LC-MS/MS: evaluación de dos métodos de clean-up:** *Agrociencia Uruguay 17(1): (2013); 101-107*
30.	**QuEChERS-Based Method for the Multiresidue Analysis of Pesticides in Beeswax by LC-MS/MS and GC×GC-TOF;** *J Agric Food Chem; 30;62(17); Apr. (2014); 3675-83*
31.	**Studies to improve the extraction yields of incurred pesticide residues from crops using the QuEChERS method;** *J AOAC Int. 98(2): Mar-Apr (2015);450-63*
32.	**Analysis of "Amitraz (sum)" in pears with incurred residues - Comparison of the approach covering the individual metabolites via LC-MS/MS with the approach involving cleavage to 2,4-dimethylaniline;** *Food Chem. 1;166; Jan (2015); 240-247*
33.	**Identification in residue analysis based on liquid chromatography with tandem mass spectrometry: Experimental evidence to update performance criteria;** *Anal Chim Acta. 11; May (2015) 873:1-13*
34.	**Development of a QuEChERS-Based Method for the Simultaneous Determination of Acidic Pesticides, Their Esters, and Conjugates Following Alkaline Hydrolysis;** *J Agric Food Chem. 65(6); Feb 15 (2017); 1296-1305*
35.	**Testing the Accuracy of Analytical Standard Solutions Used for Quantitative Determination of Pesticide Residues;** *J AOAC Int. (2017) Jul 1; 100(4):1058-1061*
36.	**Compensation for matrix effects in GC analysis of pesticides by using cucumber extract;** *Anal Bioanal Chem. 410(22): Sep (2018); 5481-5489*
37.	**Chemicals Rather than Bacteria? - Neither is Permitted in the EU - Residues of Fumigations with Ethylene Oxide in Sesame Seeds;** *Lebensmittelchemie · Vol 75(S1) -March (2021)*
38.	**Development and validation of an analytical method for the multiresidue analysis of pesticides in sesame seeds using liquid- and gas chromatography with tandem mass spectrometry;** *J Chromatogr. A. (2021) Aug 30; 1652:462346.*
	PUBLICATION OF INTERVIEWS
39.	**QuEChERS, a sample preparation technique that is "catching on": An up-to-date interview with the inventors;** *LCGC North America, Vol 28, Number 7, July (2010)*
40.	**The QuEChERS Revolution;** *LCGC Europe 23(9), September (2010), Volume 23, Issue 8; Pages. 418–429 also published in LCGC Asia Pacific-11-01-2010, Volume 13, Issue 4; Pages: 30–36*
41.	**Food-Lab Interview… mit Dr. Michelangelo Anastassiades;** *Food-Lab 04-2019, pages 16-26*

Publications on the EURL-SRM Website

(NOTE: this listing mainly focuses on analytical procedures, EUPT reports and other documents are not included)

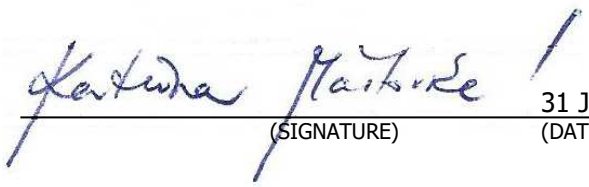
1.	**Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement I. Food of Plant Origin (QuPPe-PO-Method)** (V1-2009 … V12-2021) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_meth_QuPPe_PO_V12.pdf
2.	**Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement II. Food of Animal Origin (QuPPe-AO-Method)** (V1-2012 …V3.2 20219) https://www.eurl-pesticides.eu/userfiles/file/meth_QuPPe_AO_V3_2.pdf
3.	**Analysis of Toxicologically Critical SRM Compounds in Infant Formulae and Milk - Part 1: Analytical Aspects** (V1-2020; V2-2021) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/SRM_substances-in-infant-formula_extraction-and-instrument-methods_V2.pdf
4.	**Analysis of Toxicologically Critical Pesticides and some Additional SRM Compounds in Infant Formulae and Milk - Part 2: Residue findings** (V1-2021) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EURL_Observation_SRM_substances-in-infant-formula_residue_findings_V1.pdf
5.	**Analysis of Acidic Pesticides using QuEChERS (EN 15662) and acidified QuEChERS method Reported by** (V1 2015) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observations_AcidicPesticides.pdf
6.	**Analysis of Pesticides Entailing Conjugates or Esters in their Residue Definitions** (V1-2020, V2-2021) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EURL-SRM_Anal_Observ_Report_hydrol_of_Esters&Conj_of_Pesticides_V2.pdf
7.	**Analysis of 4-Amino-3-methylbenzoic acid in eggs - The main metabolite of amitraz in products of animal origin** (V1-2019) https://www.eurl-pesticides.eu/library/docs/srm/EURL_Observation%203-Amino-meta%20toluic%20acid.pdf
8.	**Analysis of various relevant pesticide metabolites of in products of animal origin by the QuEChERS Method using LC-MS/MS** (V1-2018) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observation_QuEChERS-AO_V1.pdf
9.	**Analysis of the Tritosulfuron Metabolite AMTT by QuEChERS Method using LC-MS/MS** (V1-2017) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observation_AMTT.pdf
10.	**Quantification of Residues of Folpet and Captan in QuEChERS Extracts** (V1-2008; V2-2010; V3.1-2017) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/meth_CaptanFolpet_EurlSRM.pdf
11.	**Analysis of Captan, Folpet and their respective metabolites Phthalimide and Tetrahydrophthalimide via LC-MS/MS either directly or following hydrolysis** (V1-2019) https://www.eurl-pesticides.eu/library/docs/srm/EurlSrm_Observation_Captan_Folpet_LC-V1.pdf
12.	**Analysis of Carbofuran (sum) by applying hydrolysis on QuEChERS extracts** (V1-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observations_Carbofuran.pdf
13.	**Analysis of dicofol via QuECHERS - use of isotope labeled dicofol to improve precision** (V1-2013) https://www.eurl-pesticides.eu/library/docs/srm/EurlSrm_Observations_dicofol.pdf
14.	**Analysis of Dimethoate and Omethoate Metabolites - Method Development and Pilot Monitoring** (V1-2019) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observation_Dimethoate_Omethoate_V1.pdf
15.	**Analysis of Dithianon by the QuEChERS Method - Impact of pH on recovery rates** (V1-2014; V2.1-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/observ_Dithianon-EurlSRM.pdf
16.	**Analysis of Dodine by the QuEChERS Method - Interactions in the injector and role of matrix** (V1-2015) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observations_Dodine.pdf
17.	**Improvement of Ethoxyquin Recoveries by QuEChERS Through the Addition of Ascorbic Acid** (V1-2014; V2-2015) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observations_Ethoxyquin_V2.pdf
18.	**Analysis of Ethoxyquin and its Metabolites in Fish Using the QuEChERS Method** (V1-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/observ_Ethoxyquin-metabolites-salmon_EurlSRM.pdf
19.	**Analysis of Ethylene Oxide and its Metabolite 2-Chloroethanol by the QuOil or the QuEChERS Method and GC-MS/MS** (V1-2020) https://www.eurl-pesticides.eu/library/docs/srm/EurlSrm_Observation_EO_V1.pdf
20.	**Analysis of Guazatine in Food Products** (V1-2018) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observation_Guazatine_V1.pdf
21.	**Analysis of Organotin-Pesticides by the QuEChERS Method - Impact of acidifying on the recoveries** (V1-2013) https://www.eurl-pesticides.eu/library/docs/srm/EURL_observations_Organotins.pdf
22.	**Determination of Prochloraz (sum) via its Metabolites** (V1-2014, V3-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EURL_observations_Prochloraz.pdf
23.	**Matrix-induced Signal Enhancement of Propamocarb in LC-MS/MS** (V1-2012) https://www.eurl-pesticides.eu/library/docs/srm/EurlSrm_Observations_Propamocarb.pdf
24.	**Analysis of Pymetrozine by the QuEChERS Method - Impact of pH on Recovery Rate** (V1-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observations_Pymetrozine.pdf
25.	**Analysis of Pyridate and its metabolite Pyridafol by QuEChERS and LC-MS/MS** (V1-2015); https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EURL_Observations_Pyridate.pdf

26.	**Analysis of the Fumigant Sulfuryl Fluoride Applying Headspace-GC-MSD** (V1-2018) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observation_Sulfuryl_fluoride_V1.pdf
27.	**Use of Analyte Protectants in GC-Analysis - A way to improve peak shape and reduce decomposition of susceptible compounds** (V1-2013) https://www.eurl-pesticides.eu/library/docs/srm/EURL_Observation-APs.pdf
28.	**Errors due to losses of the Internal Standard BNPU (Nicarbazin) during dSPE cleanup of QuEChERS extracts with GCB or of QuOil extracts with PSA** (V1-2016); https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observations_BNPU-V1.pdf
29.	**Analysis of Abamectin via QuEChERS and LC-MS/MS** (V1-2008) https://www.eurl-pesticides.eu/library/docs/srm/meth_Abamectin_CrlSrm.PDF
30.	**Analysis of Phenoxyalkanoic Acids in Milk using QuEChERS method and LC-MS/MS** (V2-2014) https://www.eurl-pesticides.eu/userfiles/file//EurlSrm_meth_Phenoxy_Milk(1).pdf
31.	**Analysis of Acidic Pesticides in Wheat Flour Samples by LC-MS(/MS) using the QuEChERS Method (incl. optional alkaline hydrolysis to release covalently bound compounds)** (V1-2007) https://www.eurl-pesticides.eu/library/docs/srm/meth_acidicpesticides_wheat_quechers_EurlSrm.pdf
32.	**Analysis of Amitraz and its Main Metabolite in Pears via QuEChERS and LC-MS/MS** (V1-2007); https://www.eurl-pesticides.eu/library/docs/srm/meth_Amitraz_CrlSrm.pdf
33.	**EURL-SRM - Analytical Method Report Analysis of Residues of Carbofuran (sum) Using QuEChERS Method** (V1-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_meth_CarbofuranQuechers.pdf
34.	**Analysis of Bifenazate (sum) by the QuEChERS Method using LC-MS/MS** (V1-2017) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/meth_Bifenazate_EurlSRM.pdf
35.	**Bromine Containing Fumigants Determined as Total Inorganic Bromide** (V1-2007, update 2008) https://www.eurl-pesticides.eu/library/docs/srm/meth_TotInorgBromide_CrlSrm.pdf
36.	**Analysis of Chlormequat and Mepiquat Residues in Foods of Plant Origin** (V1-2008; V2-2009) https://www.eurl-pesticides.eu/library/docs/srm/meth_ChlormequatMepiquat_CrlSrm.pdf
37.	**Modified QuEChERS-Method for the Analysis of Chlorothalonil in Fruits and Vegetables** (V1-2010) https://www.eurl-pesticides.eu/library/docs/srm/meth_QuEChERSforChlorothalonil_2010.pdf
38.	**Analysis of 4-Hydroxy-Chlorothalonil (SDS-3701) in Milk using QuEChERS and LC-MS/MS** (V1-2014; V2-2014) https://www.eurl-pesticides.eu/userfiles/file//EurlSrm_meth_4HydroxyChlorothalonil_Milk-V2-1.pdf
39.	**Analysis of Lambda- and Gamma-Cyhalothrin involving QuEChERS Extraction and Enantioselective LC-Separation of RS and SR-Isomers** (V1-2019) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_Observation_Cyhalothrin_V1.pdf
40.	**Analysis of Dithianon in Food of Plant Origin using acidified QuEChERS and LC-MS/MS** (V1-2014; V2-2016) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/meth_Dithianon_EurlSRM.pdf
41.	**Analysis of Dithiocarbamate Residues in Foods of Plant Origin involving Cleavage into Carbon Disulfide, Partitioning into Isooctane and Determinative Analysis by GC-ECD** (V1-2008; V2-2009) https://www.eurl-pesticides.eu/library/docs/srm/meth_DithiocarbamatesCs2_EurlSrm.pdf
42.	**Analysis of Flonicamid-Metabolites TFNA and TFNG using acidified QuEChERS method** (V1-2014; V2-2015) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSRM_meth_FlonicamidMetabolites.pdf
43.	**Analysis of Nicotine in Mushrooms** (V1-2009) https://www.eurl-pesticides.eu/library/docs/srm/meth_NicotineMushrooms_CrlFvCrlSrm.pdf
44.	**Analysis of Quaternary Ammonium Compounds (QACs) in Fruits and Vegetables using QuEChERS and LC-MS/MS** (V1-2012; V5-2016); https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSRM_meth_QAC_ShortMethod.pdf
45.	**Analysis of BACs and DDAC in Milk using QuEChERS method and LC-MS/MS** (V2-2014) https://www.eurl-pesticides.eu/userfiles/file//EurlSRM_meth_QAC_Milk.pdf
46.	**Modified Version of the QuEChERS-Method for the Analysis of Pentachlorophenol in Guar Gum** (V1-2007) https://www.eurl-pesticides.eu/library/docs/srm/meth_QuechersForGuarGum.pdf
47.	**Analysis of the Fumigant Phosphine Applying Headspace-GC-MSD** (V1-2014) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSRM_meth_Phosphin.pdf
48.	**Residues of DFA and TFA in Samples of Plant Origin** (V1 2017) https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_residue-Observation_TFA-DFA.pdf
49.	**Residue Findings of QuPPe-Compounds in Samples of Plant Origin from the German Market in 2018 (V1 2019),** https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_residue_findings_QuPPe-Compounds.pdf
50.	**Residue Findings of QuPPe-Compounds in Samples of Plant Origin from the German Market in 2019;** https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_residue_findings_QuPPe-Compounds2019.pdf
51.	**Residue Findings of QuPPe-Compounds in Samples of Plant Origin from the German Market in 2020**; https://www.eurl-pesticides.eu/userfiles/file/EurlSRM/EurlSrm_residue_findings_QuPPe-Compounds2020.pdf
	Publications in the web-journal of the CVUA Stuttgart
52.	**Analysis of Perchlorate in Food Samples of Plant Origin Applying the QuPPe-Method and LC-MS/MS** ; Aspects of Food Control and Animal Health | 02 2013 (cvuas.de)
53.	**Analysis of Phosphine in Dried Foodstuffs via Headspace-GC-MSD** – Aspects of Food Control and Animal Health | 02 2014 (cvuas.de)

54.	**Analysis of Fumigants in Cereals and Dried Fruit: Part I via GC-MS/MS** – Aspects of Food Control and Animal Health | 01 2015 (cvuas.de)
55.	**Improvement of Ethoxyquin Yields and Recoveries from Pears through the Addition of Ascorbic Acid** – Aspects of Food Control and Animal Health | 01 2017 (cvuas.de)
56.	**Determination of Triazole Derivative Metabolites (TDMs) in Fruit and Vegetables using the QuPPe Method and Differential Mobility Spectrometry (DMS) and Survey of the Residue Situation in Organic and Conventional Produce** – Aspects of Food Control and Animal Health | 02 2016 (cvuas.de)
	Publication on the website of the CVUA Stuttgart
57.	**Validation of a Simple and Rapid Multiresidue Method (QuEChERS) and its Implementation in Routine Pesticide Analysis** (2003)
58.	**Lieber „Kemie" statt Keime? – In der EU ist beides nicht zulässig; Teil 1: Begasungsmittel Ethylenoxid in Sesam;** CVUA Stuttgart | Lieber „Kemie" statt Keim... (ua-bw.de), Oct. 2010
59.	**Lieber „Kemie" statt Keime? – In der EU ist beides nicht zulässig; Teil 2: Pflanzenpulver und Nahrungsergänzungsmittel** CVUA Stuttgart | Lieber „Kemie" statt Keim... (ua-bw.de). Jul 2021
60.	**Lieber „Kemie" statt Keime? – In der EU ist beides nicht zulässig; Teil 3: Instant-Nudelgerichte – asiatisch, auch mit Ethylenoxid begast!** CVUA Stuttgart | Lieber „Kemie" statt Keim... (ua-bw.de) ; Aug 2021

10. Other recognitions or awards received that support the significance of the contribution.

08/1999	**Bruno Rossmann Award** for 'Development a Fast Method for the Deter-mination of Carbendazim, Benomyl und Thiophanate-Methyl as a Sum and 2,4-D in Fruits and Vegetables Involving Extraction with Supercritical CO2' by the German Chemical Society (GDCh) during the German Food Chemistry Congress in Hamburg
06/2002	**Poster-Award** at the 4th European Pesticide Residue Workshop in Rome/Italy, title of poster: 'Reduction of Analyte Degradation and Peak Tailing During GC Injection by Addition of Protecting Agents' (shared)
08/2009	**ARS Outstanding Efforts in Technology Transfer Award** by American Agricultural Research Service ARS) for developing the QuEChERS approach to monitor pesticides and other foods
11/2009	**DIN-Preis Nutzen der Normung 2009** = DIN-Award for the usefulness of a standard for saving effects by using the EN-15662 (QuEChERS) (DIN= German Institute for Standardization) approach
06/2012	**Poster-Award** at the 9th European Pesticide Residue Workshop in Vienna, title of poster: Analysis of Amitraz (sum) from QuEChERS Extracts – comparison of the method involving analysis of individual MRM-Amenable metabolites (DMF, DMPF and DMA) with a method involving cleavage to DMA (shared)
06/2014	**Poster-Award** at the 10th European Pesticide Residue Workshop in Vienna, title of poster: Analysis of Fumigants in Cereals and Dry Fruit Applying GC MS/MS (shared)
08/2014	**Poster-Award** at the 13th IUPAC Congress, San Francisco 2014, title QuEChERS-LC-MS/MS and GCxGC-TOF adaptability for the analysis of beehive products seeking the development of agroecosystems sustainability monitor (shared)
07/2015	**NACRW Excellence Award** for Sample Preparation relevant to Chemical Residue Analysis for the development, validation and implementation of the Quick, Easy, Cheap, Effective, Rugged and Safe (QuEChERS) as a sample preparation procedure for the analysis of pesticides and other chemical contaminants in food and agricultural matrices"; at the 52nd North American Chemical

Submitted by:  31 January, 2022
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Katerina Mastovska
(NAME, TYPE OR PRINT)

Address to be used for correspondence:

Eurofins Scientific
(AGENCY OR FIRM)

6304 Ronald Reagan Ave
(STREET ADDRESS)

Madison WI 53704 United States
(CITY) (STATE/PROVINCE) (ZIP/POSTAL CODE) (COUNTRY)

+1-317-371-2968 none katerinamastovska@eurofinsus.com
(PHONE) (FAX) (E-MAIL)

Revised and approved: November 2020

For AOAC office use only:	**Date Received:**	**Eligibility Renewal Date:**

ATTACHMENT: Short Curriculum Vitae of Dr. Michelangelo Anastassiades

CURRICULUM VITAE	**Dr. Michelangelo Anastassiades**	
	**Date of Birth:**	1st of March 1969
	Nationalities:	German, Cypriot
	Profession:	Food Chemist
	Phone:	#49-711-957-1124
	E-mail:	Michelangelo.Anastassiades@cvuas.bwl.de
Education	1975 - 1986	School career in Nicosia (Cyprus)
	1988 - 1994	Studies in Food Chemistry (University of Stuttgart)
	05/1994	State Examination for Food Chemists - Part A
	1994 - 1995	'Practical Year' at CVUA Stuttgart
	10/1995	State Examination for Food Chemists - Part B
	1996 - 2000	**Doctoral Thesis** at University of Hohenheim (Supervisor: Prof. Dr. W. Schwack); Topic: 'Development of Fast Methods for the Analysis of Pesticide Residues in Food employing Supercritical Fluid Extraction - a Contribution for the Reduction of Analytical Deficits in Pesticide Residue Analysis' *(Defence of Doctoral Thesis: 05/2001)*
Professional Experience	1995 - 2000	**Food chemist** at the Pesticide Residues Lab of CVUA Stuttgart. (Research on pesticide residue analysis by SFE)
	2000 - 2002	**Visiting scientist** at the USDA in Wyndmoor Pennsylvania, USA (Development of QuEChERS method and analyte protectants concept)
	2003 - present	**Food Chemist** at the Pesticide Residues Lab of CVUA Stuttgart
	Since July 2006	**Head of EU Reference Laboratory for Pesticide Residues requiring Single Residue Methods (EURL-SRM);** (Method development, technical assistance to DG-SANCO and EFSA; Organization of PTs, workshops, trainings).
Participation in Organizations, Working Groups and Panels	- DIN/CEN Pesticide Working Group **(German Standardization Bodies),** - CEN Pesticide Working Group (European Standardization Bodies), - §64 LFGB, WG Pesticides (German body for official food testing methods) - MGPR (Mediterranean Group of Pesticide Research, founding member) - EU-EURL/NRL-Network (coordinating function) - GDCh Pesticide Working Group (belonging to German Chemical Society), - EPRA (Pesticide WG of German federal states) - EUPT-Scientific Committee (Evaluating EU Proficiency Tests on Pesticides), - AQC-Scientific Committee (Drafting EU-official Validation and Quality Control Procedures for pesticide residue analysis in food on behalf of DG-SANTE), - EFSA NETWORK ON PESTICIDE MONITORING - AOAC working group on chlorate/perchlorate	

Current Duties	- Head of EU Reference Laboratory (EURL-SRM) (since mid. 2006) - Coordinating the Network of National Reference Laboratories (NRLs) - Method development and validation - Development of Pesticide-Related Databases - Conduction of workshops and training courses for EU and 3rd country labs - Organization of PTs - Technical assistance to DG-SANCO & EFSA (concerning e.g. evaluation of analytical aspects concerning revision of reasoned opinions on the re-evaluation of MRLs according to Art. 12 396/2005, design of EU-Monitoring programs, revision of legislation drafts etc.)
Scientific Publications	- Contribution in books: 3 - Publications in journals: 40+ - Publications in EURL-website: 70+ - Poster presentations: 120+ - Oral presentations: 150+ in all continents
Training Activities	- In addition to the annual training and workshop events conducted within the framework of the EURL, conduction of numerous trainings organized by different organizations such as WHO/IAEA, BTSF and UNDP in various countries, such as Albania, Argentina, Austria, Cyprus, Dominican Republic, Egypt, Germany, Greece, Hungary, India, Italy, Japan, Lebanon, Saudi Arabia, Singapore, Thailand
Major Scientific achievements	- QuEChERS method (CEN-Standard, used by 80+% of pesticide labs worldwide) - QuOil method (CEN technical standard in process of becoming a CEN-Standard) - QuPPe method (in process of becoming CEN-Standard) - Analyte Protectants Concept - Web-Projects: - Pesticides-Online (www.pesticide-online.com), - EURL-Portal Website (eurl-pesticides.eu) and - EURL-Datapool (eurl-pesticides-datapool.eu)
Awards	**08/1999** **Bruno Rossmann Award** for "Development a Fast Method for the Determination of Carbendazim, Benomyl und Thiophanate-Methyl as a Sum and 2,4-D in Fruits and Vegetables Involving Extraction with Supercritical CO_2" by the German Chemical Society (GDCh) during the German Food Chemistry Congress in Hamburg. **06/2002** **Poster-Award** at the 4th European Pesticide Residue Workshop in Rome/Italy, title of the poster: "Reduction of Analyte Degradation and Peak Tailing During GC Injection by Addition of Protecting Agents" (shared) **08/2009** **ARS Outstanding Efforts in Technology Transfer Award** by the USDA Agricultural Research Service (ARS) for developing the QuEChERS approach to monitor pesticides and other foods (shared) **11/2009** **DIN-Preis Nutzen der Normung 2009 = 2009 DIN-Award for Utility of Standard** - For the implementation of the standard EN-15662 (QuEChERS-citrate buffered) (DIN= German Standardization Body) **06/2012** **Poster-Award** at 9th European Pesticide Residue Workshop in Vienna, title of the poster: "Analysis of Amitraz (sum) from QuEChERS Extracts – comparison of the method involving analysis of individual MRM-Amenable metabolites (DMF, DMPF and DMA) with a method involving cleavage to DMA" (shared) **06/2014** **Poster-Award** at 10th European Pesticide Residue Workshop in Limassol, title of the poster: "Analysis of Fumigants in Cereals and Dry Fruit Applying GC-MS/MS" (shared) **08/2014** **Poster-Award** at 13th IUPAC Congress, San Francisco 2014, title of the poster:" QuEChERS-LC-MS/MS and GCxGC-TOF adaptability for the analysis of beehive products seeking the development of agroecosystems sustainability monitor" (shared) **07/2015** **NACRW Excellence Award** at 52nd North American Chemical Residue Workshop, "for Sample Preparation relevant to Chemical Residue Analysis for the development, validation and implementation of the Quick, Easy, Cheap, Effective, Rugged and Safe (QuEChERS) as a sample preparation procedure for the analysis of pesticides and other chemical contaminants in food and agricultural matrices"