Regione Puglia
ARPA PUGLIA
via CORSO TRIESTE, 27
70126 - BARI (BA)

Firmato digitalmente da: FERRIERI FRANCESCA
Data: 11/04/2023 16:22:05

L I S T A D I L I Q U I D A Z I O N E

N.° Liq.: 583 **Del 11/04/2023**

Visti gli ordinativi di fornitura emessi dal dirigente responsabile del centro ordinante;
Preso atto della regolare fornitura di beni/esecuzione di servizi e conformità ordine/bolla/fattura;

(1) Rilevata la regolarità del DURC;
(2) Decorsi 30 gg dalla richiesta;
(3) Rilevata la NON regolarità si richiede l'intervento sostitutivo;

SI LIQUIDA

Macrostruttura: Sede: PST Tecnopolis Pal.H - S.P. Casamassima Km.3

PRG. SPESA: 2022 / 1001 - RIMB.SPESE VIAGGIO E FORMAZIONE A PERSONALE DA RE

CONTO: 71210000190 RIMB.SPESE VIAGGIO E FORMAZIONE A PERSONALE DA RENDICONTARE NELL'AMBITO DEL DIEF

Fornitore: (775) SEAP S.P.A. AEROPORTI DI PUGLIA

Prot. Elett.	Data Reg.	Num. Documento	Data Doc.	Importo	Codice CIG	Ordine	Data Ord.
0000UFVBQD0000037962	09/03/2023	156/17	28/02/2023	€ 100,90	ESENTE		

MOD PAG: BONIF.BANCARIO CONTO DEDICATO 60GG IBAN: IT88X0100504000000000029738

CIG	CUP	Importo
ESENTE		€ 100,90

Totale Fornitore - 775 **€ 100,90**

TOTALE CONTO - 71210000190 **€ 100,90**

TOTALE PRG. SPESA - 2022 / 1001 **€ 100,90**

TOTALE FATTURE LIQUIDATE **€ 100,90**

TOTALE FATTURE DEL CONTO 71210000190 **€ 100,90**

TOTALE IMPORTO DEL CIG **€ 100,90**

NOTE

DURC INAIL_36197962 del 02/01/2023 in corso di validità

Operatore:

FATTURA ELETTRONICA

Versione FPA12

Dati relativi alla trasmissione

Identificativo del trasmittente: **IT01641790702**
Progressivo di invio: **00QFQ**
Formato Trasmissione: **FPA12**
Codice Amministrazione destinataria: **UFVBQD**
Telefono del trasmittente: **0874-60561**

Dati del cedente / prestatore

Dati anagrafici

Identificativo fiscale ai fini IVA: **IT03094610726**
Codice fiscale: **03094610726**
Denominazione: **AEROPORTI DI PUGLIA S.P.A.**
Regime fiscale: **RF01** (ordinario)

Dati della sede

Indirizzo: **VIALE ENZO FERRARI**
CAP: **00000**
Comune: **BARI**
Provincia: **BA**
Nazione: **IT**

Prot. elettronico: **0000UFVBQD0000037962**
Data registrazione: **09/03/2023**
N.Prot.Registrazione: **718**
N.Prot.IVA: **111/674**
P.N.: **2023002439**
Fornitore: **775 SEAP S.P.A. AEROPORTI DI PUGLIA**
Tot.Fattura: **100,90**

Dati del cessionario / committente

Dati anagrafici

Identificativo fiscale ai fini IVA: **IT05830420724**
Denominazione: **ARPA PUGLIA AREA GESTIONE PATRIMONIO SERVIZ. ECONOMAT0**

Dati della sede

Indirizzo: **CORSO TRIESTE, 27**
CAP: **70126**
Comune: **BARI**
Provincia: **BA**
Nazione: **IT**

Dati del terzo intermediario soggetto emittente

Dati anagrafici

Identificativo fiscale ai fini IVA: **IT01641790702**
Codice Fiscale: **01641790702**
Denominazione: **TEAMSYSTEM SERVICE SRL**

Soggetto emittente la fattura

Soggetto emittente: **TZ** (terzo)

Versione FPA12

Dati generali del documento

Tipologia documento: **TD01** (fattura)
Valuta importi: **EUR**
Data documento: **2023-02-28** (28 Febbraio 2023)
Numero documento: **156/17**
Importo totale documento: **100.90**

Bollo

Bollo virtuale: **SI**
Importo bollo: **2.00**

Dati relativi alle linee di dettaglio della fornitura

Nr. linea: 1

Codifica articolo

Tipo: **AswNomComb**
Valore: **522311**

Tipo: **INTRA**
Valore: **522311**

Tipo: **AswArtFor**
Valore: **M1629**

Tipo: **Codice Art. fornitore**

Valore: **M1629**
Descrizione bene/servizio: **Recup.somme anticipate per acquisto tkt**
Quantità: **1.00**
Unità di misura: **nr**
Valore unitario: **92.90000000**
Valore totale: **92.90**
IVA (%): **0.00**
Natura operazione: **N1** (esclusa ex art.15)

Altri dati gestionali

Tipo dato: **AswTRiga**
Valore testo: **Normale #NO#**
Tipo dato: **AswCodIVA**
Valore testo: **Escluso dalla base imponibile art.15 #N010100#**

Nr. linea: 2

Codifica articolo

Tipo: **AswArtFor**
Valore: **M1899**

Tipo: **Codice Art. fornitore**
Valore: **M1899**
Descrizione bene/servizio: **Proventi Fees**
Quantità: **1.00**
Unità di misura: **nr**
Valore unitario: **6.56000000**
Valore totale: **6.56**
IVA (%): **22.00**

Altri dati gestionali

Tipo dato: **AswTRiga**
Valore testo: **Normale #NO#**

Nr. linea: 3

Descrizione bene/servizio: **ANNO 2022 Codice IPA ARPAP - Codice Univoco UFVBQD CONTO DI IMPUTAZIONE 71210000190 CENTRO DI COSTO 11110301000**
Valore unitario: **0.00000000**
Valore totale: **0.00**
IVA (%): **22.00**

Altri dati gestionali

Tipo dato: **AswTRiga**
Valore testo: **Descrittivo #DE#**

Nr. linea: 4

Descrizione bene/servizio: **Imposta di bollo assolta in modo virtuale ai sensi dell'art.6 DM 17/06/2014 e art.2 DM 28/12/2018**
Valore unitario: **0.00000000**
Valore totale: **0.00**
IVA (%): **22.00**

Nr. linea: 5

Descrizione bene/servizio: **Riga ausiliaria contenente informazioni tecniche e aggiuntive del documento**
Valore unitario: **0.00000000**
Valore totale: **0.00**
IVA (%): **22.00**

Altri dati gestionali

Tipo dato: **AswRelStd**
Valore testo: **Versione #Asw0106#**
Tipo dato: **AswSwHouse**
Valore testo: **TeamSystem S.p.a. / TS Enterprise**
Tipo dato: **AswDestB2B**
Valore testo: **Recipient #UFVBQD#**
Tipo dato: **AswTipoDoc**
Valore testo: **Fattura #TPD01#**
Tipo dato: **AswCarDoc**
Valore testo: **Vendita Diretta (Fatturazione al Banco) #CD01#**
Tipo dato: **AswTratSco**
Valore testo: **Percentuali come righe sconto #PRS#**
Tipo dato: **AswTratSco**
Valore testo: **Valori come righe sconto #PRS#**
Tipo dato: **AswTRiga**
Valore testo: **Informazioni documento #ID#**

Dati di riepilogo per aliquota IVA e natura

Aliquota IVA (%): **0.00**
Natura operazioni: **N1** (escluse ex art.15)
Totale imponibile/importo: **92.90**
Totale imposta: **0.00**
Riferimento normativo: **Escluso dalla base imponibile art.15 #N010100#**

Aliquota IVA (%): **22.00**
Totale imponibile/importo: **6.56**
Totale imposta: **1.44**
Esigibilità IVA: **S** (scissione dei pagamenti)

Dati relativi al pagamento

Condizioni di pagamento: **TP02** (pagamento completo)

Dettaglio pagamento

Modalità: **MP05** (bonifico)
Decorrenza termini di pagamento: **2023-02-28** (28 Febbraio 2023)
Termini di pagamento (in giorni): **28**
Data scadenza pagamento: **2023-03-28** (28 Marzo 2023)
Importo: **99.46**
Codice IBAN: **IT88X0100504000000000029738**

ARPA PUGLIA RETE LABORATORI	**Richiesta partecipazioni corsi**	MD- 84/Rev 3 Del: 14/03/2017 Pagina 1 di 1

Al Direttore Generale
ARPA Puglia
dg@arpa.puglia.it

E pc formazione@arpa.puglia.it

Oggetto: Richiesta di autorizzazione alla partecipazione al Workshop dal titolo "**14th European Pesticide Residue Workshop** ".
Il sottoscritto **Francesco Lo Greco, Assistente Tecnico – Perito chimico** presso il DAP **Bari – UOC Polo di Specializzazione Alimenti**, visto anche il parere favorevole del Direttore del DAP **Bari**, in calce riportato e attestante la coerenza della richiesta al profilo professionale e alle mansioni del richiedente, chiede di essere autorizzato a partecipare, in aggiornamento obbligatorio, al workshop in oggetto organizzato da **FULL DAY S.r.l.** che si terrà a **Bologna** dal **19 al 23 settembre 2022**, di cui si allega alla presente il programma e la cui quota di partecipazione è offerta dall'Istituto Superiore di Sanità .
Il laboratorio parteciperà con la presentazione di due poster già accettati dall'ente organizzatore, di cui si allegano gli abstract.
La richiesta di cui trattasi: interessa prove accreditate **X** *interessa prove non accreditate* ☐
Centro di costo: ***11110301.000*** *DAP Bari Chimica degli alimenti*
Centro di imputazione: ***712.100.000190*** *rimborso spese viaggio e formazione personale nell'ambito DIEF*

Si specifica, come di seguito riportato, il preventivo, anche orientativo, delle spese da sostenere:

1. Quota iscrizione	€ omaggio
2. Soggiorno	€ 320
3. Vitto	€ 80
4. Viaggio (aereo con biglietto acquistato tramite ARPA)	€100
5. Altro	€
TOTALE	**€500**

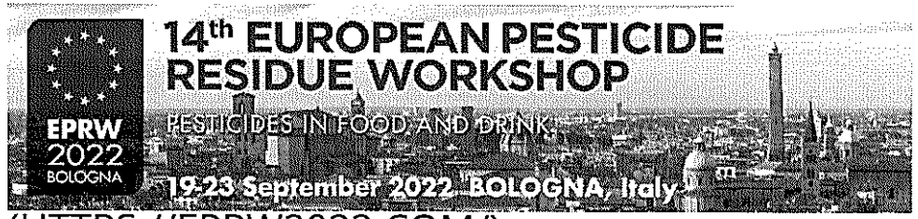
Distinti saluti.
Francesco Lo Greco

X *pargre favorevole*
Il Direttore del DAP BARI

☐ *parere favorevole*
Il Direttore Generale/Scientifico/ Amministrativo
(nome e cognome)

☐ Si autorizza. ----------
☐ Non si autorizza con la seguente motivazione:_____

Il Direttore Generale



(HTTPS://EPRW2022.COM/)

Monday 19 September

14:00-18:00

Pre-Workshop Course

Developments in Mass Spectrometric Techniques for Pesticide Residue Analysis
Prof. Amadeo R. Fernández-Alba & Dr. Carmen Ferrer
University of Almeria – EURL FV

17:00-20:00

Registration open & Posters mounting

18:30-20:30

Welcome Cocktail Reception

Tuesday 20 September

08:30

Registration open

Chairpersons:

9:00-9:30

Welcome – Opening speech

9:35-10:05
O-1

Keynote lecture 1

Cumulative risk assessment of pesticides: boiling it down to the essence
Bruno Dujardin
EFSA – European Food Safety Authority
Parma – Italy

10:05-10:35
O-2

Keynote lecture 2

New analytical tools for pesticide residues in food control. Experience gained over the last 15 years as the EURL-FV
Amadeo R. Fernández-Alba
University of Almeria – EURL FV
Almeria – Spain

10:35-11:40
V-1

Coffee break / Exhibition

Vendor session 1 (10:50-11:15) GERSTEL MAKING LABS WORK

First part
New Developments in Automated Mini-Column Solid-Phase Extraction Clean-up of Pesticides and Environmental Contaminants in Foods
Steven J. Lehotay and Nicolás Michlig
U.S. Department of Agriculture, Agricultural Research Service
Wyndmoor, Pennsylvania – USA

Second part
Automated QuEChERS sample preparation with mini-SPE cleanup
Thomas Brandsch and Jochen Vandenberg
GERSTEL, Mülheim an der Ruhr – Germany

Chairpersons:

11:40-12:00
O-3

New developments on EU pesticides legislation in the context of the Green Deal and the Farm to Fork Strategy
Maria Tabernero
European Commission – Directorate General for Health and Food Safety (SANTE)
Brussels – Belgium

12:05-12:25
O-4

Comparative in vitro metabolism studies for new and existing active substances as an additional regulatory data requirement: perspective and challenges
Emanuela Testai
ISS – Istituto Superiore di Sanità / National Institute of Health
Rome-Italy

12:30-12:50
O-5

How to use processing factors – an update
Britta Michalski
BfR – German Federal Institute for Risk Assessment
Berlin – Germany

12:50-13:05

Questions and discussion

13:05-14:50
V-2

Lunch break / Exhibition

Vendor session 2 (13:20-13:55) BRUKER

Target Screener 4D: How Trapped Ion Mobility Spectrometry can help to gain confidence in the analysis of contaminants in food extracts
Dr. Carsten Baessmann
Director of Solutions Development Applied Markets

V-3

Vendor session 3 (14:10-14:45) Agilent

The Head & Heart of the analytical Lab: High productivity multiresidue pesticide analysis
Jonathan Spencer
LC/MS Applications Scientist, Agilent – UK

Chairpersons:

14:50-15:10
O-6

Occurence of co-formulant residues in food and feed
Elena Hakme
National Food Institute, Technical University of Denmark – EURL CF
Lyngby – Denmark

15:15-15:35
O-7

Screening Influenced approach to include quantitative dithiocarbamate analysis in the routine of pesticide laboratories
Hubert Zipper
CVUA Stuttgart – EURL SRM
Fellbach – Germany

15:40-15:50
O-8

Application of pesticide dietary risk assessment to improve the national regulations and monitoring plans in Argentina
Dario Maggioni
National Council for Scientific and Technical Research – CONICET
Buenos Aires – Argentina

15:50-16:00
O-9

Pesticide residues in fruits and vegetables sampled in the Total Diet Study – Zagreb region – preliminary results
Marija Macan
Institute for Medical Research and Occupational Health
Zagreb – Croatia

16:00-16:15

Questions and discussion

16:15-17:10
V-4

Coffee break / Exhibition

Vendor session 4 (16:35-17:00) RESTEK

New Techniques to simplify the Analysis of Pesticides:
– A new Hybrid Phase for Mini-Screenings of very polar Analytes
– In Line Sample Preparation for a variety of Sample Matrices
Dr. Emanuele Cecco
Restek S.r.l.

17:10-18:00

Poster session I **(Even numbers, authors present)**

Wednesday 21 September

Themed day "FOOD OF ANIMAL ORIGIN"

8:30

Registration open

9:00-9:10

Announcements

Chairpersons: Finbarr O'Regan and Ralf Lippold

9:10-9:30
O-10

Challenges in pesticides analysis in food of animal origin
Björn Hardebusch
CVUA Freiburg – EURL AO
Freiburg – Germany

9:35-9:55
O-11

Is HILIC the best approach for highly polar anionic pesticides determination? The case of animal origin products and feed samples
Jonatan Dias
WFSR – Wageningen Food Safety Research
Wageningen – The Netherlands

10:00-10:20
O-12

Analysis of SRM compounds in products of animal origin
Michelangelo Anastassiades
CVUA Stuttgart – EURL SRM
Fellbach – Germany

10:20-10:35

Questions and discussion

10:35-11:40
V-5

Coffee break / Exhibition

Vendor session 5 (10:50-11:15)

How to overcome the challenge of multi-residue trace analysis with RMs and CRMs LabStandard®
Mario Stefanelli – Oscar G. Cabrices
Lab. Instruments S.r.l. – Italy

11:40-12:00
O-13

Application of new measurement approaches for pesticides in products of animal origin
Hans Mol
WFSR – Wageningen Food Safety Research
Wageningen – The Netherlands

12:05-12:25
O-14

FATchers – a novel, simple and fast method for sample preparation in food of animal origin
Hermann Unterluggauer
AGES – Austrian Agency for Health and Food Safety / Institute for Food Safety
Innsbruck, Austria

12:30-12:50
O-15

Development and validation of a liquid chromatography tandem high resolution mass spectrometry (LC-MS/HRMS) method for the determination of polar pesticides in food of animal origin

Emanuela Verdini
IZSUM – Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche "Togo Rosati"
Perugia – Italy

12:50-13:05

Questions and discussion

13:05-14:50
V-6

Lunch break / Exhibition

Vendor session 6 (13:20-13:55)

Implementing new LC-MS technologies for the targeted and non-targeted analysis of pesticide residues and more
Florencia Jesus and Francisco José Díaz Galiano
EURL-FV, University of Almeria
Almeria – Spain

V-7

Vendor session 7 (14:10-14:45)

Exploiting Hydrogen as the Carrier Gas with a Novel EI Source for the Determination of Pesticides by GC/MS and GC/MS/MS
Marica Beggio
Product Specialist GC-GC/MS, Agilent – Italy

Chairpersons: Finbarr O'Regan and Ralf Lippold

14:50-15:10
O-16

Pesticides in novel plant-based salmon feeds and farmed Atlantic salmon; occurrence, feed-to-fillet transfer, metabolites, and aquaculture performance
Marc Berntssen
Institute of Marine Research
Bergen – Norway

15:15-15:25
O-17

Automatisation of a modular method (EN 1528) for analysis of pesticides in food of animal origin
Anna Buettner
CVUA Freiburg – EURL AO
Freiburg – Germany

15:25-15:35
O-18

Determination of cationic pesticides in food of plant and animal origin using IC-MS/MS
Ann-Kathrin Wachtler
CVUA Stuttgart – EURL SRM
Fellbach – Germany

15:40-16:00
O-19

Pesticide residues in feeds
Mette Erecius Poulsen
National Food Institute, Technical University of Denmark – EURL CF
Lyngby – Denmark

16:00-16:15

Questions and discussion

16:15-17:10
V-8

Coffee break / Exhibition

Vendor session 8 (16:35-17:00)

New LC-MS/MS technologies for pesticides analysis
Daniel McMillan
Snr. Market Development Manager, Food, Environmental & Forensic (EMEAI) – Marketing, SCIEX

17:10-18:00

Poster session II (Odd numbers, authors present)

20:00

Gala dinner at "Palazzo de Rossi" (tickets required)

Thursday 22 September

8:30

Registration open

9:00-9:10

Announcements

Chairpersons:

9:10-9:30

O-20

Efficient workflows in pesticide residue analysis – Commercial laboratory perspective
Katerina Mastovska
Eurofins Scientific, Operational Best Practices Program & Eurofins US Food Division
USA

9:35-9:55

O-21

Analysis of ethylene oxide and 2-chloroethanol in complex food matrices
Sadat Nawaz
Fera Science Limited
Sand Hutton, York – United Kingdom

10:00-10:20

O-22

Glyphosate identification and quantification by IC-MS/MS – Method development and application to food and feed analysis
Marie Collard
Service Commun des Laboratoires – NRL CF
Paris – France

10:20-10:35

Questions and discussion

10:35-11:40

V-9

Coffee break / Exhibition

Vendor session 9 (10:50-11:15) ML SYSTEM

Recent developments of the µSPE Clean-up workflow in Pesticides Analysis
Thomi Preiswerk, Hans-Joachim Huebschmann
CTC Analytics AG
Zwingen – Switzerland

Chairpersons:

11:40-12:00

O-23

Challenges & Opportunities for Global MRL Compliance Programs
Carmen Tiu
Corteva Agriscience LLC
Indianapolis – USA

12:05-12:25

O-24

The EU report on pesticide residues in food: latest figures
Paula Medina Pastor
EFSA – European Food Safety Authority
Parma – Italy

12:30-12:50

O-25

Consolidation of the Analytical Guidance Documents for Methods for Risk Assessment and Post-approval Control and Monitoring Purposes – The New SANTE/2020/12830
Sebastian Bergelt
BfR – German Federal Institute for Risk Assessment
Berlin – Germany

12:50-13:05

Questions and discussion

13:05-14:50

V-10

Lunch break / Exhibition

Vendor session 10 (13:20-13:55) ThermoFisher SCIENTIFIC

Implementing new GC-MS technology to stay ahead with your pesticides analysis
Dr. Łukasz Rajski
Product Application Specialist, Thermo Fisher Scientific
Bremen – Germany

V-11

Vendor session 11 (14:10-14:45) Waters

The next generation of pesticides analysis: Ensuring efficiency and sensitivity for your lab!
Janitha De Alwis
Market Development Manager, for Food, Environmental & Materials Science, Waters
Andrea Perissi
MS Sales Specialist for Food, Environmental & Materials Science, Waters

Chairpersons:

14:50-15:10
O-26

Mass spectrometry behaviour of different constituents of specific LC and GC amenable pesticides
Francisco Díaz-Galiano
University of Almeria – EURL FV
Almeria – Spain

15:15-15:25
O-27

Pesticide residue removal from green vegetables by non-thermal decontamination procedures
Noel Alonzo
Centro Universitario CENUR Litoral Norte
Universidad de la República
Paysandú – Uruguay

15:25-15:35
O-28

Development and Box-Behnken design optimization of a miniaturized matrix solid-phase dispersion extraction of pesticides from tomatoes followed by HPLC-MS/MS analysis
Susanna Della Posta
University Campus Bio-Medico of Rome
Rome – Italy

15:40-16:00
O-29

Green solutions for extraction of pyrethroids pesticides: deep eutectic solvents
Sara Cunha
LAQV-REQUIMTE – Faculty of Pharmacy, University of Porto
Porto – Portugal

16:00-16:15

Questions and discussion

16:15-17:10
V-12

Coffee break / Exhibition

Vendor session 12 (16:35-17:00) AXELSEMRAU

Ensuring consumer safety – the complete solution for pesticide analysis
Govert Schröder
Axel Semrau
Amadeo R. Fernández-Alba & Víctor Cutillas Juárez
European Union Reference Laboratory for Pesticide Residues in Fruit & Vegetables, Shimadzu

17:10-18:00

Poster session III (All posters)

Friday 23 September

8:30

Registration open

9:00-9:10

Announcements

Chairpersons:

9:10-9:40
O-30

Keynote lecture

Miniaturized extraction techniques coupled to multidimensional chromatography for the analysis of pesticides
Luigi Mondello
UniMe – University of Messina
Messina – Italy

9:45-10:05
O-31

Comparison of six sorbents for µ-SPE clean-up of pesticides residues in feed fatty matrices
Ederina Ninga
National Food Institute, Technical University of Denmark – EURL CF
Lyngby – Denmark

10:05-10:20

Questions and discussion

10:20-11:10
V-13

Coffee break / Exhibition

Vendor session 13 (10:35-11:00) MERCK

Ensuring Consumer Safety with Certified Reference Materials for Pesticide Testing in Cannabis
Dr. Ingrid Hayenga
Sigma Aldrich, Chemie GmbH

11:10-11:30
O-32

Evaluation of different column dimensions in low-pressure gas chromatography for high-throughput analysis of pesticides and other contaminants
Steven Lehotay
USDA – Agricultural Research Service
Wyndmoor, PA – USA

11:35-11:55
O-33

Applications of US-EPA Online Dashboards to source pesticides data
Antony Williams
US EPA – United States Environmental Protection Agency
Durham, NC (Research Triangle Park) – USA

11:55-12:10

Questions and discussion

12:10-13:00

Poster awards, EPRW2024 announcement and Closing

13:00-14:00

Light Lunch / Exhibition

Poster demounting

Sponsors

SCIEX
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SHIMADZU
Excellence in Science
(http://www.shimadzu.eu/)

Workshop Venue

Palazzo dei Congressi Bologna
Piazza della Costituzione, 4
40128 Bologna BO

Website (https://www.bolognacongressi.it/en/polo-congressuale/palazzo-della-cultura-e-dei-congressi)

Organising Secretariat

FULL DAY S.r.l.
Via La Spezia, 67
00182 Rome, Italy
VAT number 04269441004

Contacts (https://eprw2022.com/contacts-eprw-2022/)

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Name | Surname

Institution/Company | Country

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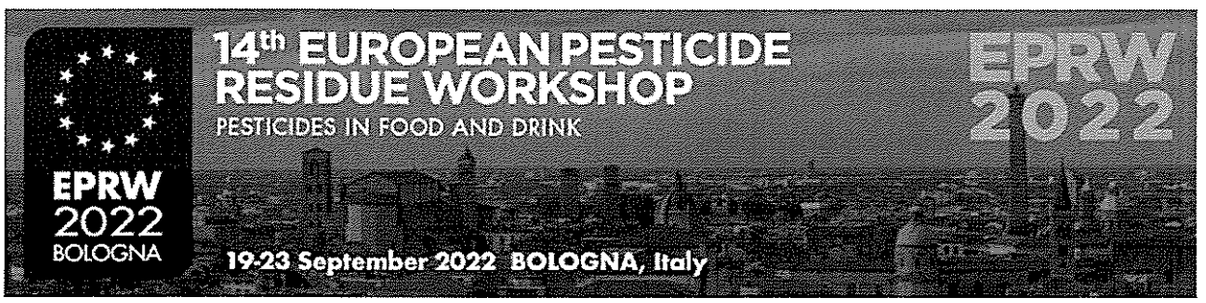
Send

13/07/22, 09:21 EPRW 2022 Programme (Preliminary) - EPRW 2022

Francesco Lo Greco

Da: g.turchetti@fullday.com
Inviato: mercoledì 1 giugno 2022 18:49
A: f.logreco@arpa.puglia.it
Oggetto: POSTER ACCEPTED - 14th European Pesticide Rsidue Workshop - Bologna: Sept. 19-23, 2022



Dear **Francesco Lo Greco**

We refer to your 'Poster Presentation' abstract submission for the

14th European Pesticide Residue Workshop
Pesticides in Food and Drink
Bologna: September 19-23, 2022

Author: Francesco Lo Greco
Poster classification: PM-Regulatory issues and monitoring
Title: ANALYSIS OF THE DETECTION OF GLYPHOSATE RESIDUES IN FRUIT, VEGETABLES, CEREALS AND PROCESSED FOOD SAMPLED IN THE APULIA REGION IN 2019 AND 2020

On behalf of the Scientific Committee, we would like to inform you that your work has been accepted for **Poster Presentation**. Additional information will be provided soon and posted in the website.

Please remember **Authors** must be registered participants.

We remain at your disposal and send our best regards.

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Francesco Lo Greco

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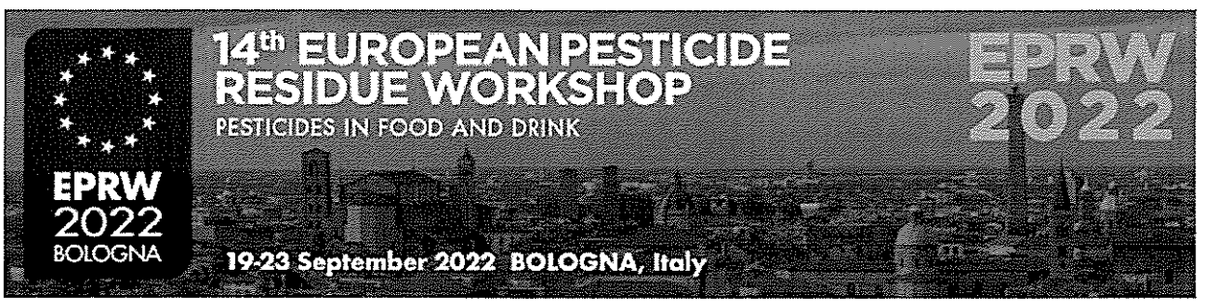
Inviato: mercoledì 1 giugno 2022 18:46
A: f.logreco@arpa.puglia.it
Oggetto: POSTER ACCEPTED - 14th European Pesticide Rsidue Workshop - Bologna: Sept. 19-23, 2022



Dear **Francesco Lo Greco**

We refer to your 'Poster Presentation' abstract submission for the

14th European Pesticide Residue Workshop
Pesticides in Food and Drink
Bologna: September 19-23, 2022

Author: Francesco Lo Greco
Poster classification: PD-Development and Application of Analytical Methods
Title: Analysis of Glufosinate and its metabolites 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG) on plant-based food by coupling ion chromatography to Q-Orbitrap: development and validation

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- **ANALYSIS OF GLUFOSINATE AND ITS METABOLITES 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG) ON PLANT-BASED FOOD BY COUPLING ION CHROMATOGRAFY TO Q-ORBITRAP: DEVELOPMENT AND VALIDATION**

Giovanni Cuccovillo [a], Francesco Lo Greco [a], Egidio Leonetti [a], Anna Daniela Malerba [a], Annamaria Mastrangelo [a], Mariangela Palma [a], Francesca Ferrieri [a]

a Agenzia regionale per la protezione e la prevenzione dell'ambiente Puglia, Corso Trieste 27, 70126, Bari, Italy

ABSTRACT

Analysis of pesticides and their metabolites in plant origin food continues to be an active research area closely related to food safety and environmental issues. Acetonitrile-based extraction and subsequent salt induced partitioning ('QuEChERS'), followed by liquid chromatography (LC)–MS/MS and gas chromatography (GC)-MS/MS analysis of the acetonitrile extract, is a widely used approach. Despite many pesticides are amenable to multi-residue methods, some of them have to be analyzed separately because they are highly polar. This work aims to solve two main problems concerning the analysis of Glufosinate and its metabolites 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG). The use of ion chromatography (IC) allows eluting highly polar pesticides, which are scarcely or not at all retained in the LC reverse phase, at acceptable times of retention. In addition, methanol-based extraction ('QuPPe' method) allows the extraction of these pesticides which elute badly or not at all in the organic phase. This approach has been optimized and validated on two different commodities according to the DG SANTE method performance criteria.

- **ANALYSIS OF THE DETECTION OF GLYPHOSATE RESIDUES IN FRUIT, VEGETABLES, CEREALS AND PROCESSED FOOD SAMPLED IN THE APULIA REGION IN 2019 AND 2020**

Gianni Corte [a], Giovanni Cuccovillo [a], Nicola Intini [a], Teodosio Iacovera [a], Francesco Lo Greco [a], Egidio Leonetti [a], Anna Daniela Malerba [a], Mariangela Palma [a], Francesca Ferrieri [a]

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Official laboratories engaged in the quantitative determination of pesticide residues in food and feed are continuously required to develop and adapt their analytical strategies. These actions are essential in order to check compliance with European Maximum Residue Levels (MRLs) in food and also to comply with regular changes to the purpose and specifications of European and National surveillance programmes (EU MACP and NCP respectively).
The samples analyzed by the A.R.P.A. 'Polo di Specializzazione Alimenti' (accredited ISO 17025:2005) were collected by technicians from the local Health Service, Anti Sophistications Nucleus (NAS) and border authorities.
In this presentation it was discussed results of analytical tests carried out by our laboratory both on fresh and on processed food samples of vegetable origin. The aim of the tests was assessment of multi residue pesticides and glyphosate residues and were carried out according to UNI EN 16552:2018 and QuPPE method, respectively. The analysed matrices include fresh fruit and vegetable, cereal and their derivatives, pastas and baked goods, oils and wines. Products obtained from both conventional and organic agriculture have been analysed.
The results presented were obtained in 2019 by subjecting more than 1004 samples whereof 205 to analysis for glyphosate. The tests carried out in 2020, on the other hand, relate to approximately 1029 samples whereof 194 for glyphosate residues. The results collected in the two-year period highlighted the

presence of glyphosate, the data collected highlighted the presence of 20% and 4.1% of the analysed samples, respectively, with negligible concentrations of the analyte even on products obtained from organic farming, in particular on dried fruit and cereal derivatives.
Although, the presence of glyphosate has been established in a quite number of the analysed samples, obtained values are far below the MRL (Reg. 396/2005) , and should not indicate risk to human health.

ISTITUTO NAZIONALE PER L'ASSICURAZIONE CONTRO GLI INFORTUNI SUL LAVORO

INPS Istituto Nazionale Previdenza Sociale

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Numero Protocollo	INAIL_36197962	Data richiesta	02/01/2023	Scadenza validità	02/05/2023

Denominazione/ragione sociale	AEROPORTI DI PUGLIA SPA
Codice fiscale	03094610726
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