



## Curriculum Vitae Laura Scrano

**Position** : Confirmed Researcher, Department of European Cultures and Mediterranean (DICEM).

University of Basilicata, Potenza – Italy

Photochemistry PhD, University Claude Bernard, Lyon 1,

Foreign languages: French (fluent), English (Fluent), Spanish (Basic); German (basic)

### **Fellowships:**

1. Erasmus Staff Mobility- Teaching Assignment (STA) CIUDA 01, Universidad de Albacete, Ciudad Real, Toledo (Spain) 2017
2. Erasmus Staff Mobility- Teaching Assignment (STA) IRCELYON, University of Lyon I (France)(2014),
3. Erasmus Staff Mobility- Teaching Assignment (STA) Poznan University, 2013
4. VP Erasmus, Montpellier 2 , University, France, 2013
5. Socrates Erasmus – Mobility STA, Ioannina University (Greece), 2012
6. Erasmus Preparatory Visit - LISA- Université Paris XII Val de Marne, 2011
- 7.Socrates Erasmus – Mobility T.S., Escuela tecnica superior de ingenieros agronomicos, Università di Albacete (Spain), 2010
- 8.Socrates Erasmus – Mobility T.S., IRCELYON , University of Lyon I (France), 2008
9. Socrates Erasmus – Mobility T.S., Chemistry Department , University of Ioannina (Greece), 2007.
10. Socrates Erasmus – Mobility T.S, Technischen Universität München (TUM), Freising – Weihenstephan, Germany, one week, 2006.
11. EU Short Term mission COST 629, GSF Institut für Ökologische Chemie, Neuherberg, Germany, one month, 2006.
12. Research Grant, Department Science of Crop System, Forestry and Environment University of Basilicata, Potenza, Italy, tree years, 1999-2002.
13. Short Term mission COST 66-EU, Laboratoire pour l'Application de la Chimie a l'Environnement (LACE) Université Claude Bernard, Lyon, France, one month, 1997.
14. Short Term mission, Italian Council of Research (CNR), Laboratoire pour l'Application de la Chimie a l'Environnement (LACE) Université Claude Bernard, Lyon, France, one month, 1997.

15. Short Term mission COST 66-EU, Laboratoire pour l'Application de la Chimie a l'Environnement (LACE) Université Claude Bernard, Lyon, France, one month, 1995.
16. Fellowship of Region Rhone-Alpes, GSF Institut für Ökologische Chemie, Freising Attaching, Germany, six months, 1995.
17. Fellowship of Italian Council of Research (CNR) No. 203.06.92, GSF Institut für Ökologische Chemie, Freising Attaching, Germany, six months, 1992.
18. Fellowship of Italian Council of Research (CNR) N0. 201.6.17, Institute of nematode science, Bari, Italy, 12 months 1985.

### **Research Activity**

Dr. Scrano studied the problems linked to the safeguard of environment from those external and internal events that often can cause its degradation.

The *outlines* of research are:

1. Degradation and transformation of recent pesticides in liquid phase and adsorbed phase (soil, organic matter, clay minerals, zeolites, cyclodextrin) and toxicity test.
2. The use of hybrid nano-structured materials as absorbents for the organic pollutants removal from wastewater
3. Identification and characterization of hydrocarbons from crude oil in the soil using ultra sensitive methods.
3. Characterization of stone materials and causes and level decay identification
4. Identification and characterization of secondary metabolites with health properties in vegetables.
5. Identification and characterization of vegetal and animal secondary metabolites and their application as alternative to synthetic pesticides.

In such activity Laura Scrano make use of low resolution mass spectrometry, coupled with gas or liquid chromatography, and high resolution Fourier transform ion cyclotron resonance mass spectrometry, a technique that remarkably improve the possibilities of resolving unknown structures.

Dr. Scrano is author and co-author of more than 172 scientific accepted by national and international journals with referee, national and international congresses.

Particularly, Dr Scrano studied the clay minerals properties concerning the capacity of retaining organic molecules into the soil (for example last generation herbicides and other organic pollutants) and the influence of soil constituents (organic matter and clay minerals) on the photochemical degradation of herbicides.

Moreover, in order to develop new methodologies to reduce the environmental risks due to the presence of pollutants agents, she has adopted new laboratory tests and has developed advanced methods for the degradation of organic contaminants by using catalyser semiconductor powders and ozone flows in liquid phase and on adsorbed phase as well, identifying pollutant derivatives and assessing their toxicity (microtox, daphnia magna, phytotest).

Dr Scrano was also experienced with the use of inclusion materials (as cyclodextrins and zeolites) for soil and waste water recovery and the catalytic and photocatalytic degradation of organic xenobiotics. At the moment Dr Scrano studied the characterization of stone materials and causes and level decay identification.

**Research collaborations:**

- "Helmholtz Zentrum München, Germany", in Munich ,Germany;
- "IRCELYON " Université Claude Bernard in Lyon, France;
- University of Ioannina ,Greece;
- Mohammed V-Agdal University ,Morocco;
- Al Quds University, Israel
- Department of Pharmacy, University of Montpellier, France;
- Consejo Superior de Investigaciones Científicas - CSIC, Spain

**Reviewer activity:**

-*African Entomology*

-*American Chemical Science Journal*

-*American Journal of Experimental Agriculture*

-*Annual Review & Research in Biology*

- *Arabic Journal*

-*Clean soil water*

- *Chemosphere*

- *Environmental Pollution*

- *International Journal of Environmental Analytical Chemistry*

- *International Journal of TROPICAL DISEASE & Health*

- *Journal of Environmental Sciences*

- *Journal of Environmental Management*

- *Journal of Agriculture and Ecology Research International*

- *Journal of Agricultural Science and Technology*

- *J. Mater. Environ. Sci.*

- *Natural Products Chemistry*

- *Phosphorus, Sulfur, and Silicon and the Related Elements*

-*British Microbiology Research Journal*

-*Water, Air, & Soil Pollution*

## ACADEMIC ASSIGNMENTS

### *Didactic Activity in University of Basilicata.*

- Agricultural Chemistry
- Application of Biotechnologies in the degradation of xenobiotics in liquid phase and adsorbed phase
- Soil science and pedo-archeology
- Chemistry applied to cultural heritage

### *Didactic Activity in European University.*

At Escuela Tecnica de Ingenieros Agronomicos de Albacete, Spain

1. Soft methods of water purification and recycling for irrigation purposes,
2. The problem of pesticide and other persistent organic residues in water recycling,
3. Comparison among different green methods of water purification used at today,
4. A double step approach: organo-clay filtration and photocatalytical treatment

At Ioannina University:

1. Removal different contaminant from Wastewater Using Clay-Micelle Complex”
2. State of art of the pollution situation comparing Italy and Greece situation
3. Preparation of organo-clay by using different supports and different surfactants and evaluation of these nano-compounds with different pollutant
4. The use of natural activator for photocatalysis to reduce environmental problems

At Poznan University:

1. Biopesticides as an attractive alternative to chemicals: state of art
2. Application fields of natural pesticides: agriculture, environment and cultural heritage

At IRCELYON, France

1. Biopesticides : state of art and future
2. Different application of natural pesticides
3. Laboratory test for bioactivity evaluation of natural substances

***-Supervisor in activities for training of students:***

**Science of agriculture**

**Pacilio Maria Teresa** - *Analisi delle attività, strutture ed attrezzature del Dipartimento di Chimica.*

*Inserimento in attività produttiva di ozonizzazione di sostanze tossiche (160 ore, anno accademico 2004-2005).*

**Chiola Sara** - *Acquisire conoscenze e competenze su problemi ambientali adoperando tecniche diffrattometriche e microscopiche (225 ore, anno accademico 2005- 2006).*

**Dragonetti Antonella** – *Procedure di laboratorio per l'identificazione e quantificazione di fitofarmaci in matrici vegetali con tecniche LC-MS (225 ore, anno accademico 2005-2006).*

**Brienza Monica** - *Monitoraggio aerobiologico di polline di cupressacee ( 225 ore, anno accademico 2007- 2008).*

**Carone Domenico** - *Evoluzione di un'azienda a precessione colturale diversificata: valutazione del carbonio organico, (225 ore, anno accademico 2007- 2008)*

**Falcicchio Angelo**:- *Suggerimenti di fertilizzazione basati su analisi di suolo (225 ore, anno accademico 2009- 2010)*

**Casamassima Rossana**.-*Implementazione e monitoraggio del piano di autocontrollo HACCP, (225 ore, anno accademico 2009- 2010)*

**Capone Spalluti Michele** –*“Influenza della concimazione azotata sulla resa proteica in cariosside di grano duro” (225 ore, anno accademico 2009- 2010)*

**Maggio Rocco** - *“Applicazione di analisi chimiche e strumentali su matrici vegetali” ( 225 ore, anno accademico 2010-11)*

**La Sorella Giovanna**- *“Valutazione ecologica dei corsi d'acqua” (225 ore, anno accademico 2011-12)*

**Di Taranto Sandra** –*“ Valutazione dell'inquinamento delle matrici ambientali ed alimentari”, (225 ore, anno accademico 2012-13).*

**Chironna Sandro** – *“ Valutazione dell'impatto ambientale e colturale della concimazione liquida e granulare (225 ore, anno accademico 2012-13).*

**IT Science**

**Capece Elvira** - *Creazione sito web per il Dottorato internazionale ”Crop systems, forestry and Environmental sciences” (395 ore, anno accademico 2004-2005)*

**Salvatore Rocchina** - *La sicurezza dei siti web (360 ore, anno accademico 2005-2006)*

**Tramutola Alessandra** - *Creazione sito web per il Dipartimento di Scienze dei Sistemi Colturali, Forestali e dell'Ambiente. Creazione servizi di forum (in corso, anno accademico 2006-2007)*

**Giordano Davide** - *Sito web dinamico per il Dipartimento di Scienze dei Sistemi Colturali, Forestali e dell'Ambiente.* (anno accademico 2007-2008)

**Labriola Sergio** – *Realizzazione piattaforma prenotazione esami Dipartimento di Scienze dei Sistemi Colturali, Forestali e dell'Ambiente.* (anno accademico 2007-2008)

**Telesca Marianna** -“ *Realizzazione di un sistema esperto per integrazione del proprio piano di Studi nell'Ambito del percorso didattico nella scuola secondaria di II° grado*” (anno accademico 2008-2009)

**Molinari Dario** “*Progettazione di una piattaforma web per la scuola*” (anno accademico 2008-2009)

### **MASTER'S DEGREE THESIS**

**Tummolo Mauro** “*Fotodegradazione del Dichloran in Ambiente Naturale*”,anno accademico 2004-2005;

**Casamassima Michela** “*Degradazione fotochimica del dichloran indotta in un simulatore solare e tossicità del mix di fotoprodotti*”, anno accademico 2004-2005;

**Sthatis Joannis** (*studente Erasmus, Grecia*) “*New assessment of degradation methods for micropollutants: several alternatives for imazethapyr detoxification*”, anno accademico 2005-2006.

**Pacilio Maria Teresa** “*Metodi alternativi di degradazione del mepanypirim e valutazione della tossicità degli intermedi*”

**Chiola Sara.** “*Prove di degradazione fotochimica del tribenuron-methyl in fasi diverse*”, tesi triennale in Tecnologie Agrarie, anno accademico 2007-2008

**Sergio Sasso** “*Determinazione della salinità del suolo attraverso metodi chimico-fisici*”, tesi triennale in Tecnologie Agrarie, anno accademico 2007-2008

**Carone Domenico:** *Le Tecniche Agronomiche Conservative:il Pensiero degli agricoltori dell'alta Murgia.*, tesi triennale in Tecnologie Agrarie, anno accademico 2008-2009

**Chiola Sara**” *Utilizzo di nano materiali per la decontaminazione di acque reflue*”, Laurea Specialistica, ,tesi specialistica In Tecnologie Agrarie, anno accademico 2009-2010

**De Rosa Michele** “*Metodi di purificazione di corpi idrici contaminati*” anno accademico 2009-2010, laurea triennale in Tecnologie Agrarie

**Casamassima Rosanna** “*L'importanza del controllo di qualità nella produzione dell'olio e del vino*”, laurea triennale in Tecnologie Agrarie, anno accademico 2009-2010.

**Brienza Monica** “*Individuazione di metalli pesanti attraverso il confronto tra biomonitoraggio lichenico e analisi convenzionali*“, laurea in Scienze Forestali vecchio ordinamento, anno accademico 2009-2010.

**Sasso Sergio** “*Deterioramento della calcarenite esposta agli agenti atmosferici*”, Laurea magistrale in Tecnologie agrarie, anno accademico 2010-11

**Netti de Viti Rosangela** “*Individuazione di metalli pesanti in acque provenienti da bacini montani*”, laurea vecchio ordinamento, laurea in Scienze Forestali vecchio ordinamento, anno accademico 2010-11

**Capone Spalluti Michele**” *Valutazione del problema delle micotossine nella dieta mediterranea*”, laurea triennale in Tecnologie Agrarie, anno accademico 2010-11

**De Rosa Rocco**”*Biorisanamento dei materiali lapidei di interesse storico-culturale: approccio chimico-microbiologico*”, laurea magistrale in Tecnologie agrarie, anno accademico 2012-13

**Di Matteo Giuseppina**.”*Utilizzo di Metaboliti secondari in diversi campi ambientali*”, laurea triennale in Tecnologie Agrarie, anno accademico 2011-12

**La Sorella Giovanna** “*Valutazione ambientale dei corsi d’acqua: il caso del Bradano*”, laurea Triennale in Produzione Vegetale, anno accademico 2012-12.

**Rocco Maggio** “*Utilizzazione di metaboliti secondari contro patogeni forestali*”, anno accademico, laurea In Scienze Forestali V.O., 2012-13, in corso

**Di Taranto Sandra** “ *Valutazione dell’inquinamento delle matrici ambientali ed alimentari*”, laurea triennale in Scienze e Tecnologie Agrarie, anno accademico 2012-13).

**Abrescia Giuseppina** “ *Salva-guardiamo il nostro pianeta per ricostruire il nostro futuro*”, laurea in Scienze della Formazione Primaria, anno accademico 2013-14

**D’ambrosio Daniela** " *La Biodiversità: L’attuale Sfida Educativa*”, ”, laurea in Scienze della Formazione Primaria, anno accademico 2013-14

**Antonacci Antonella**” *Ecologia applicata ai beni culturali*”, laurea in Scienze della Formazione Primaria anno accademico 2013-14, in corso

**Giaccari Simona** “”*Pulisco il mondo con le mie mani*”, laurea in Scienze della Formazione Primaria anno accademico 2013-14,

**Chironna Sante**. "Valutazione di qualità dei prodotti orticoli sottoposti a diversa fertilizzazione" anno accademico 2013-14

**Brigida Lorusso** "Sostenibilità mondiale, europea, nazionale, locale:un unico obiettivo", laurea in Scienze della Formazione Primaria, anno accademico 2014-15

**Rosalba Perrone** "Verso un nuovo concetto di educazione ambientale:la deep ecology, laurea in Scienze della Formazione Primaria", anno accademico 2014-15

**Marica Campanella** “*La razionalità umana: vantaggio o svantaggio per l’ambiente?*” laurea in Scienze della Formazione Primaria, anno accademico 2014-15

**Floriana Brescia** "Tutela della biodiversità: il caso di Torre Guaceto", laurea in Scienze della Formazione Primaria, anno accademico 2015-6

**Donata Valpolicella** "La Filiera Agroalimentare ai Giorni Nostri:*Valorizzare la sostenibilità dei prodotti alimentari ed educare le giovani generazioni ad una corretta nutrizione*, laurea in Scienze della Formazione Primaria, anno accademico 2015-16

**Chiara De Benedictis** "Educazione ambientale e sostenibile nella scuola primaria", laurea in Scienze della Formazione Primaria, anno accademico 2015-16

**Emile Rougier** "Studio della degradazione di cannabinoidi via fotolisi e idrolisi", studente Erasmus anno accademico 2015-16

- **Celia Fouilloux** " "The aged red wine, as influenced by the storage method and regional resources",  
Studente Erasmus, 2016-17

- **Coline Courtiade** " Bioremediation of cultural heritage", Studente Erasmus, 2016-17

- *Supervisor for curricular and doctoral thesis*

**Fraddosio Boccone Laura** - Étude des Processus Physico-Chimiques de dégradation sur le tuffeau de Gravina de Puglia, A.A. 2011-12

**Brienza Monica** - New hybrid nano-structured materials used as absorbents for the removal of organic pollutants from wastewater, A.A. 2013-14

**Napolitano Giacomo** - Secondary Metabolites: development and use of new compounds in environmental and human field, A.A. 2015-16

**Matteo Santacroce** - Study of stone built deterioration processes caused by natural and anthropic activities and possible reconsolidation approaches, in progress

-*Supervisor for the master thesis*

**Danilo Raimondi** - Monitoraggio ambientale della condotta delle acque di strato destinate alla reiniezione nel pozzo di Costa Molina 2 .**MASTER IRIS**

-*Co- supervisor for the curricular and doctoral thesis*

**Antonio Di Marsico**- Effect of the application of mucilage from seeds of chia (*Salvia hispanica* L.) on the physical characteristics of agricultural soils, in progress

**Simone Milan** - *Cannabis sativa* L.: Quality assurance, cultural heritage and sewage epidemiology applications, A.A. 2015-16

**Adelia Majolo**- Biosynthetic incorporation of tryptophan into odorant binding proteins(OBPs),,in progress

-*Institutional Assignments*

**DICEM representative in Interfaculty for Computer and Telematic Services Center (ITC)**

**Board member in UNIBAS Committee of guarantee (CUG)**

**Member of the DICEM Research Committee**

**Reviewer of research projects of national interest: SIR 2014 and PRIN 2015**

- **Board member (Vice president) of the Recreational Club of the University of Basilicata workers (CRAL) 2014-2016**

- **President of the Recreational Club of the University of Basilicata workers (CRAL) 2016-2018**



- *Board member of the Italian Association Clays (AISA)*
- *Board member of Pesticide and Environment Italian Research Group (GRIFA)*

*Coordinator of Summer School "NATURAL MINERALS AND SYNTHETIC SURROGATES FOR ENVIRONMENT AND HEALTH SAFEGUARD: MEDICINE, VETERINARY, AGRICULTURE AND ECOLOGICAL ISSUES", Bari, 20-22 June 2016*

*Coordinator of Summer School "IL RUOLO DELLA FORESTA NELL'AMBIENTE: FUNZIONE SOCIALE ED ECONOMICA" Università della Basilicata e Comune di Satriano di Lucania, 27-29 Giugno 2017*

*Editor of Journal of Advances in Plant Biology*

*Editorial curator of Book PESTICIDES 2010- 6<sup>th</sup> EUROPEAN CONFERENCE ON PESTICIDES AND RELATED ORGANIC MICROPOLLUTANTS IN THE ENVIRONMENT AND 1<sup>th</sup> SYMPOSIUM ON CHEMISTRY AND FATE OF MODERN PESTICIDES*

*Editorial curator of Book "NATURAL MINERALS AND SYNTHETIC SURROGATES FOR ENVIRONMENT AND HEALTH SAFEGUARD: MEDICINE, VETERINARY, AGRICULTURE AND ECOLOGICAL ISSUES"2016*

*Papers*  
(2004-2017)

**Journal Articles**

A. Di Marsico, **L.Scrano**, M. Amato, B. Gamiz, M. Real, L.Cox. (2017) Influence of mucilage from seeds of chia (*Salvia hispanica* L.) as an amendment, on the sorption/desorption of herbicides in agricultural soils". *submitted*

Antonio Di Marsico, **Laura Scrano**, Rosanna Labella, Virginia Lanzotti, Roberta Rossi, Lucia Gracia Cox Meana Michele Perniola, Mariana Amato, (2017) Mucilage From Fruits/Seeds Of Chia (*Salvia hispanica* L.) Improves Soil Aggregate Stability. *Plant and Soil. Accepted*

Angela Capece , ROSSANA Romaniello, **Laura Scrano**, Gabriella Siesto and Patrizia Romano (2017) Yeast starter as a biotechnological tool for reducing copper content in wine. *Submitted*

Samer Khalaf, Jawad H. Shoqeir, Filomena Lelario, **Laura Scrano**, Rafik Karaman & Sabino A. Bufo (2017) Removal of diclofenace sodium from aqueous environments using heterogeneous photocatalysis treatment *Imperial Journal of Interdisciplinary Research (IJIR)*, Vol-3, Issue-9, ISSN: 2454-1362

Mohannad Qurie, Jehad Abbadi, **Laura Scrano**, Gennaro Mecca, Sabino A. Bufo, Mustafa Khamis & Rafik Karaman (2017) Inland Treatment of the Brine Generated from RO Advanced Membrane Wastewater Treatment Plant Using Epuvalisation System, *Water Today - The Magazine.*: 64-84

Lelario, F., Gardi, I., Mishael, Y., Dolev, N., Undabeytia, T., Nir, S., **Scrano, L.**, Bufo, S.A.(2017) Pairing micropollutants and clay-composite sorbents for efficient water treatment: Filtration and modeling at a pilot scale, *Applied Clay Science*, Vol. 13,: 225-232

Khalaf S., **Scrano L.**, Lelario F., Karaman R. and Bufo S.A. (2017) TiO<sub>2</sub> and Active Coated Glass Catalysis of Ibuprofen Photodegradation *submitted*

Bufo S.A., D'Auria M., Lelario F., **Scrano L.**, Racioppi R., Velluzzi V. (2017) The fate of the aromatic fraction in crude oil under UV irradiation and in supported phase *submitted*.

Lelario F., Ligrani G., Chiola S., Masi S., Mancini I., **Scrano L.**, Bufo S.A.(2017) LCFTICRMS determination of the occurrence of pharmaceutical compounds in tertiary treated urban wastewater reused for irrigation *submitted*

Sulaiman, S., Khamis, M., Nir, S., **Scrano, L.**, Bufo, S.A., Karaman, R. (2016) Diazepam stability in wastewater and removal by advanced membrane technology, activated carbon, and micelle–clay complex *Desalination and Water Treatment*, Vol. 57, Issue 7 : 3098-3106

Saleh Sulaiman, Mustafa Khamis, Shlomo Nir, Filomena Lelario, **Laura Scrano**, Sabino A. Bufo, Gennaro Mecca and Rafik Karaman. (2016) Diazepam TiO<sub>2</sub> photodegradation along with metabolites which were obtained from the kinetic study in sludge. *submitted*

Sasso S., Miller A.Z., Rogerio-Candelera M.A., Cubero B., Coutinho M.L., **Scrano L.**, Bufo S.A., (2016) Potential of natural biocides for biocontrolling phototrophic colonization on limestone *Int. Biodeter. Biodegr.* 107, 102 – 110. DOI: 10.1016/j.ibiod.2015.11.017

Lelario F., Brienza M., Bufo S.A., **Scrano L.**(2016) Effectiveness of different photoadvanced oxidation degradation processes (AOPs) on the abatement of mepanipirim and its transformation products in water *Journal of Photochemistry and Photobiology A*, 321, 187–201.  
<http://dx.doi.org/10.1016/j.jphotochem.2016.01.024>

Brienza M., Mahdi Ahmed M., Escande A., Plantard G., **Scrano L.**, Chiron S., Bufo S.A. and Goetz V., (2016) Use of solar advanced oxidation processes for wastewater treatment: follow-up on degradation products, acute toxicity, genotoxicity and estrogenicity *Chemosphere*, 148, 473–480. DOI: 10.1016/j.chemosphere.2016.01.070

Bufo, S.A., Milan, S., Milella, L., **Scrano, L.**, Varallo, C. (2016) *Cannabis sativa* L. in Foodstuffs: the Italian Case and the Need for EU Harmonised Limits for THC Unavoidable Contamination *European Food and Feed Law Review*, 11(1) 52 - 57

Karaman R., Khamis M., Abbadi J., Qurie M., Ayyad I., Ayyash F., Hamarsheh O., Yaqmour R., Amro A., Nir S., Bufo S.A., **Scrano L.**, Lerman S., Gur-Reznik S., Dosoretz C.G. (2016) Paracetamol biodegradation by activated sludge and photo-catalysis and its removal by a micelle-clay complex, activated charcoal and reverse osmosis membranes *Environmental Technology*, 10.1080/09593330.2016.1150355

Szymon Chowański, Zbigniew Adamski, Paweł Marciniak, Grzegorz Rosiński, Ender Büyükgüzel, Kemal Büyükgüzel, Patrizia Falabella, **Laura Scrano**, Emanuela Ventrella, Filomena Lelario, Sabino A. **Bufo**, (2016) A Review of Bioinsecticidal Activity of Solanaceae Alkaloids *Toxins*, 8 (3) art. no. 60. DOI: 10.3390/toxins8030060

Ventrella E., Adamski Z., Chudzińska E., Miądowicz-Kobielska M., Marciniak P., Büyükgüzel E., Büyükgüzel K., Erdem M., Falabella P., **Scrano L.**, Bufo S.A.(2016) *Solanum tuberosum* and *Lycopersicon esculentum* Leaf Extracts and Single Metabolites Affect Development and Reproduction of *Drosophila melanogaster* PLoS ONE, 11 ( 5 ) , art. no. e0155958. DOI: 10.1371/journal.pone.0155958

Zbigniew Adamski, Marta Kabzińska, Anastasiya Pruskaya, Szymon Konwerski, Paweł Marciniak, Monika Szymczak, Szymon Chowański, Marta Spochacz, **Laura Scrano**, Sabino A. Bufo, Ender Büyükgüzel, Kemal Büyükgüzel (2016) Sublethal Effects of *Solanum tuberosum* and *Lycopersicon esculentum* Leaf Extracts on *Tenebrio molitor* and *Harmonia axyridis* *Karaelmas Science and Engineering Journal*, 1: 59-66.

Katarzyna Radtke, Zbigniew Adamski, Agnieszka Kopiczko, Monika Szymczak, Marta Spochacz, Paweł Marciniak, Filomena Lelario, **Laura Scrano**, Sabino A. Bufo (2016) Ultrastructural and Developmental Toxicity of Potato and Tomato Leaf Extracts to Beet Armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae) *Microscopy Research and Technique*. DOI 10.1002/jemt.22726

Lelario F., Labella C., Napolitano G., **Scrano L.**, Bufo S.A. (2016) Fragmentation study of major spirosolane-type glycoalkaloids by Collision Induced Dissociation Linear Ion Trap (CID-LIT) and Infrared Multiphoton Dissociation Fourier Transform Ion Cyclotron Resonance (IRMPD-FT-ICR) mass spectrometry *Rapid Communications in Mass Spectrometry*, DOI: 10.1002/rcm.7727

M. Brienza, M. Mahdi Ahmed, A. Escande, G. Plantard, **L. Scrano**, S. Chiron, S.A. Bufo and V. Goetz (2015) Use of solar advanced oxidation processes for wastewater treatment: follow-up on degradation products, acute toxicity, genotoxicity and estrogenicity, *Chemosphere*, 148, 473–480. DOI: 10.1016/j.chemosphere.2016.01.070

Qurie, M. , Khamis, M., Ayyad, I. , **Scrano, L.** , Lelario, F. , Bufo, S.A. , Mecca, G., Karaman, R.

(2015) Removal of chlorpyrifos using micelle–clay complex and advanced treatment technology, *Desalination and Water Treatment*. DOI:10.1080/19443994.2015.1096836

Sulaiman, S.,Khamis, M.,Nir, S.,Lelario, F.,**Scrano, L.**,Bufo, S.A., Mecca, G.,Karaman, R. (2015) Stability and removal of atorvastatin, rosuvastatin and simvastatin from wastewater. *Environmental Technology* 2015 Dec; 36(24):3232-42. DOI: 10.1080/09593330

Saleh Sulaiman, Mustafa Khamis, Shlomo Nir, Filomena Lelario, **Laura Scrano**, Sabino A. Bufo & Rafik Karaman (2015) Stability and removal of spironolactone from wastewater. *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering*, Volume 50, Issue 11, pages 1127-1135

Samer Khalaf, Fuad Al-Rimawi, Mustafa Khamis, Shlomo Nir, **Laura Scrano**, Sabino A. Bufo and Rafik Karaman (2015) Efficiency of Membrane Technology Activated Charcoal and a Clay Micelle Complex for the Removal of Ibuprofen and Mefenamic Acid. *Case Studies Journal*, ISSN (2305-509X) : 4, Issue 5: 38-73, IF 3,582

F. Lelario M. Brienza, S.A. Bufo, **L. Scrano**. (2015) Effectiveness of different advanced oxidation processes (AOPs) on the abatement of the model compound mepaniprim in water as determined using liquid chromatography coupled with electrospray ionization (LC/ESI) and Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry (FTICR MS)". *Journal of Photochemistry and Photobiology A*, 321, 187–201. <http://dx.doi.org/10.1016/j.jphotochem.2016.01.024>

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### **Scientific paper in National Meetings**

**Scrano L.**, L. Milella, S. Milan, G. Napolitano, F. Lelario, M. G. Bonomo e S.A. Bufo.

"Utilizzo virtuoso di biocidi naturali nella conservazione dei manufatti d'interesse storico-culturale"

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