

Plant Active Products: Research, Innovation and Knowledge Advancements through an International NETwork

POR FESR Basilicata 2014-2020



Luigi Milella

Basilicata University



SOCIETÀ ITALIANA DI FITOCHIMICA
E DELLE SCIENZE DELLE PIANTE MEDICINALI, ALIMENTARI E DA PROFUMO

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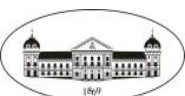
POR FESR Basilicata 2014-2020

Avviso Pubblico per la selezione di progetti di cooperazione interregionale e transnazionale

(ai sensi dell'art. 96.3.d del Reg. (UE) n. 1303/2013)



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rostlinné výroby
Poznatky pro udržitelné zemědělství



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3. Le azioni devono essere coerenti con gli obiettivi specifici previsti dal PO FESR Basilicata 2014-2020. Il presente Avviso assicura una priorità alle azioni condotte sulle aree di competenza interessate dagli Investimenti Territoriali Integrati (ITI) previsti dal paragrafo 4.3 del POR FESR Basilicata 2014/2020³, alle azioni coerenti con la strategia di specializzazione intelligente S3 della Regione Basilicata⁴ ed alle azioni che contribuiscono al perseguimento della strategia macroregionale definita dal programma EUSAIR⁵.
4. I progetti devono prioritariamente tendere alle seguenti due finalità:
 - A. **costituire nuove reti o rafforzare/valorizzare reti esistenti con partner europei per lo scambio di buone pratiche o il trasferimento di conoscenze, anche valorizzando e capitalizzando le esperienze della partecipazione a progetti finanziati con fondi UE (anche nell'ambito di programmi CTE) e/o favorire la partecipazione del sistema della ricerca regionale alle reti europee in materia di ricerca, innovazione tecnologica e digitalizzazione dell'economia (di seguito **Linea "A"**);**



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Article

Phytochemical Profile of *Capsicum annuum* L. cv Senise, Incorporation into Liposomes, and Evaluation of Cellular Antioxidant Activity

Chiara Sinisgalli ^{1,2}, Immacolata Faraone ^{1,2}, Antonio Vassallo ^{1,*}, Carla Caddeo ³, Faustino Bisaccia ¹, Maria Francesca Armentano ^{1,2}, Luigi Milella ^{1,2,*} and Angela Ostuni ^{1,2}

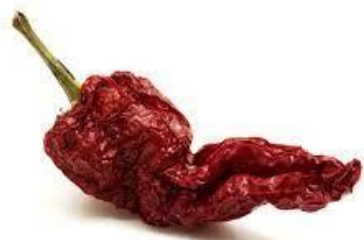
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Research Article

The Beneficial Effects of Red Sun-Dried *Capsicum annuum* L. Cv Senise Extract with Antioxidant Properties in Experimental Obesity are Associated with Modulation of the Intestinal Microbiota

Chiara Sinisgalli, Teresa Veza, Patricia Diez-Echave, Angela Ostuni, Immacolata Faraone, Laura Hidalgo-Garcia, Daniela Russo, Maria Francesca Armentano, José Garrido-Mesa, Maria Elena Rodriguez-Cabezas, Alba Rodríguez-Nogales, Luigi Milella, Julio Galvez ... See fewer authors ^

First published: 10 December 2020 | <https://doi.org/10.1002/mnfr.202000812> | Citations: 6

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Open Access Article

New Insight on the Bioactivity of *Solanum aethiopicum* Linn. Growing in Basilicata Region (Italy): Phytochemical Characterization, Liposomal Incorporation, and Antioxidant Effects

by Immacolata Faraone ^{1,2,†} , Ludovica Lela ^{1,†} , Maria Ponticelli ^{1,*} ,
 Domenico Gorgoglione ³ , Filomena De Biasio ³ , Patricia Valentão ⁴ ,
 Paula B. Andrade ⁴ , Antonio Vassallo ^{1,5} , Carla Caddeo ⁶ , Roberto Falabella ⁷ ,
 Angela Ostuni ^{1,2} and Luigi Milella ^{1,*}

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- 2 Spinoff BioActiPlant s.r.l., Viale Dell'ateneo Lucano 10, 85100 Potenza, Italy
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- 4 REQUIMTE/LAQV, Laboratório de Farmacognosia, Departamento de Química, Faculdade de Farmácia, Universidade do Porto, R. Jorge Viterbo Ferreira, n° 228, 4050-313 Porto, Portugal
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- 6 Department of "Scienze Della Vita e Dell'ambiente, Ospedale 72, 09124 Cagliari, Italy
- 7 Urology Unit, San Carlo Hospital, Via Potito Petrone



Via



Open Access Editor's Choice Article

A Complete Survey of Glycoalkaloids Using LC-FTICR-MS and IRMPD in a Commercial Variety and a Local Landrace of Eggplant (*Solanum melongena* L.) and their Anticholinesterase and Antioxidant Activities

by Filomena Lelario ¹ , Susanna De Maria ² , Anna Rita Rivelli ² , Daniela Russo ^{1,3,*} ,
 Luigi Milella ^{1,3,*} , Sabino Aurelio Bufo ^{1,4} and Laura Scrano ⁵

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s. m. e agg. Sostanza nutritiva arricchita da principi attivi, di origine perlopiù vegetale; ad essa relativo. ♦ Forse è inappropriato classificare tutti i nutraceutici come farmaci, ma è altrettanto vero che i nutraceutici dovrebbero essere regolamentati in modo più severo degli alimenti. Si dovrebbe richiedere la prova di sicurezza e di efficacia prima (e non dopo, come fa la Food and Drug Administration) dell'esposizione del cittadino a rischi potenziali. (E[nrica] Pu[gno], *Stampa*, 5 aprile 2000, *Tuttoscienze*, p. 1) • «Attualmente



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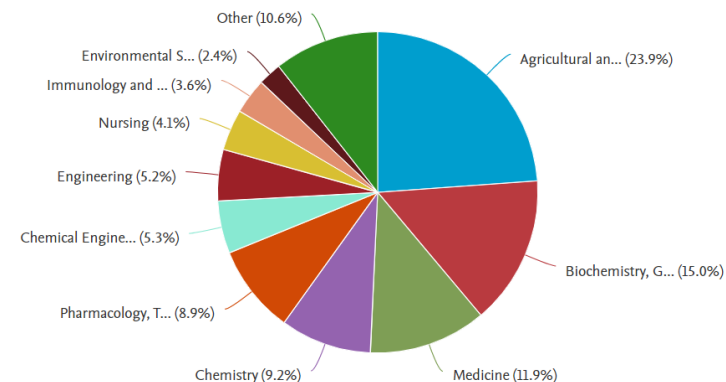
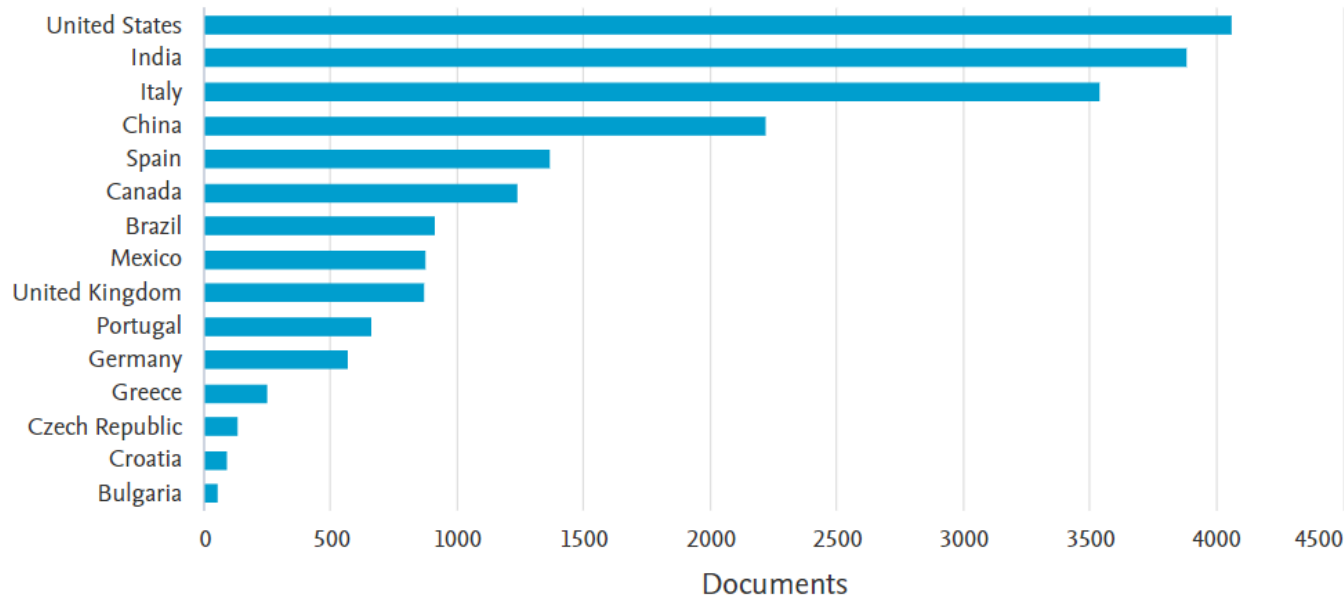
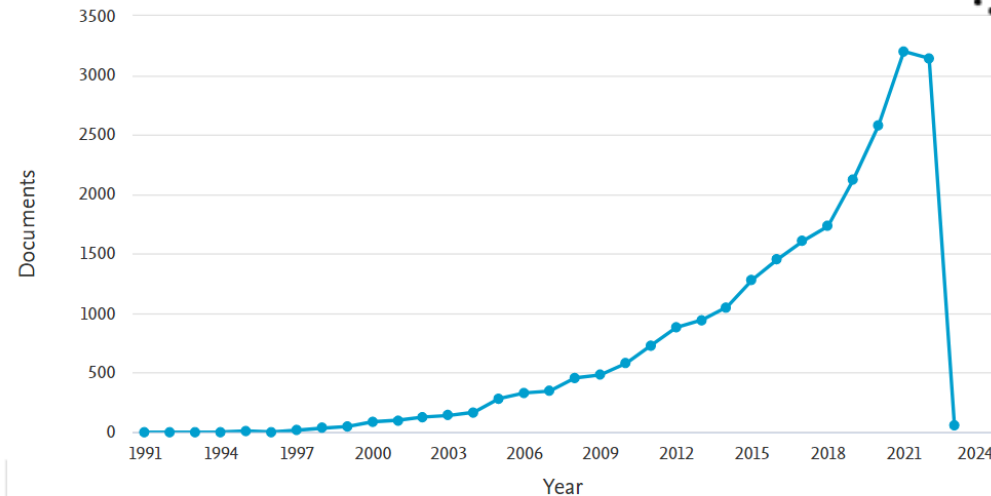
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Scopus



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23,993 documents found





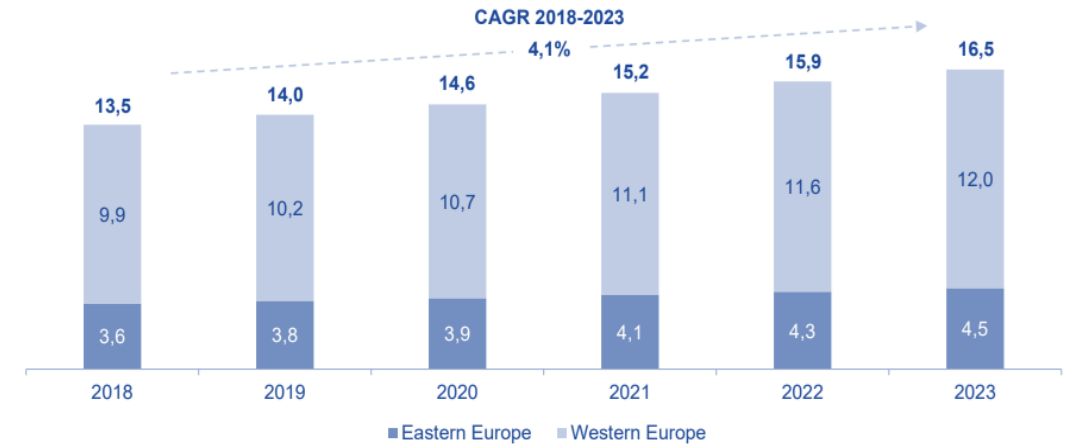
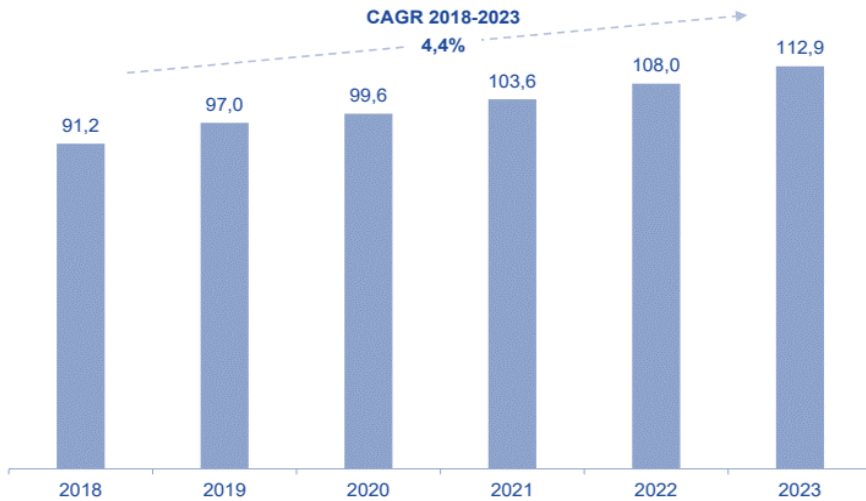
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Nutraceutical market

GLOBAL NUTRACEUTICAL MARKET (2018 - 2023, €B, %)

EUROPEAN NUTRACEUTICAL MARKET (2018 - 2023, €B, %)



The global nutraceuticals market has been increasing since 2018, at a Compound Annual Growth Rate (CAGR) of 4,4% during the estimate period 2022 to 2030. A similar trend is observed in Europe, with a higher consumption of nutraceuticals in Western Europe than in Eastern Europe.

PwC Analysis, Euromonitor International 2019, Federsalus, Press





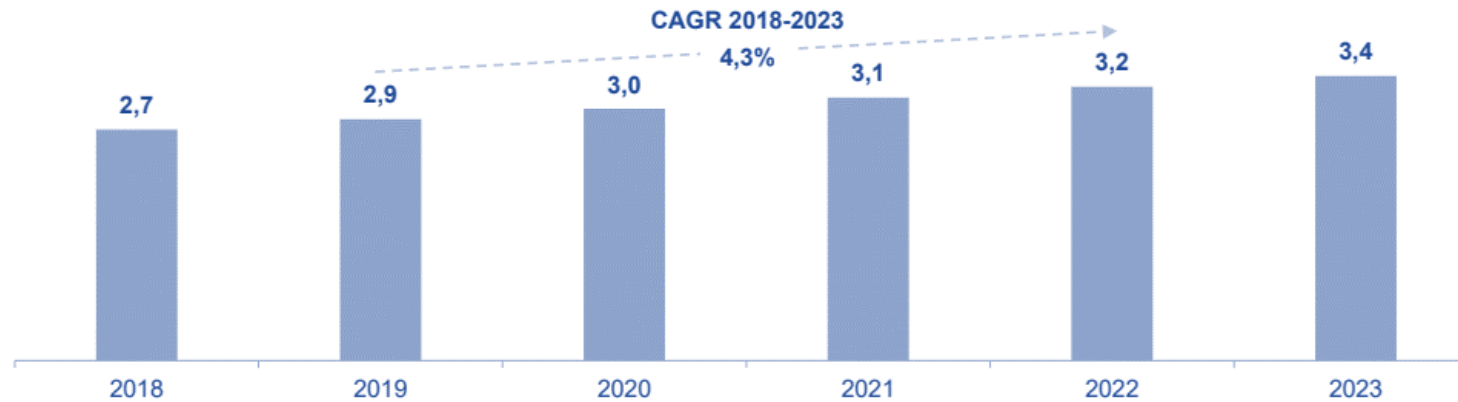
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Nutraceutical market



ITALIAN NUTRACEUTICAL MARKET (2018 - 2023, €B, %)



Italy is a key geography of the nutraceutical market, thanks to the awareness of the importance of a balanced diet and a healthy lifestyle. The growing awareness of the benefits of consuming products derived from natural ingredients among Italian consumers will have a positive impact on the supplements market in the coming years.



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Objectives of PAPRIKANET.IT project

- Establish and strengthen cooperation between 10 European Partners beyond Italy, including Croatia and Greece as part of the EUSAIR strategy
- Create and develop a “*Common area of knowledge and innovation*” in the field of natural substances with particular reference to the nutraceutical of the native species of Basilicata and the medicinal species there present
- Promote this strategy in the local systems of Basilicata improving the mobility between research, enterprise and innovation, creating a network of highly qualified professionals working in the field of natural substances in different European Countries



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Lead Partner: UNIBAS_DiS

IT Partners: ALSIA

University of Naples Federico II

University of Salerno

European partners: Czech Rep. (3)

Croatia (1)

Germany (1)

Spain (2)

Portugal (1)

Greece (1)

Bulgaria (1)





For the first time

we intend to create an important network of high-level international collaborations

by bringing together

13 partners, of which 10 are international,

each with a different and well-documented experience from years of international scientific publications that will bring a return to Basilicata.

Not only economic, but also in terms of knowledge, experiences, enthusiasm and common projects

The entire supply chain implemented will be a model that can be translated to any other plant species, a natural product to be enhanced, resulting in a multiplier of opportunities and economies.





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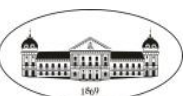


Output of PAPRIKANET.IT project

- Consolidation and enhancement of cooperation between European partners
- More active participation by local entrepreneurial companies
- Improving the skills and knowledge of stakeholders
- Creation of website/platform
- Creation of a scientific chain aimed at enhancing the beneficial power of the pepper and the white aubergine of Senise and the red aubergine of Rotonda
- Publications/research reports/newsletters for the dissemination of the results of scientific research as well as through oral communications at conferences of high scientific impact

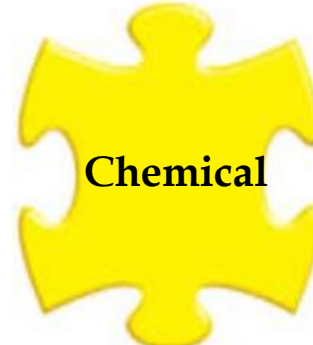


The European Team
is made up of different professional figures
with different expertise and skills,
all united by a rigorous scientific approach in different fields





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Work Packages 6

7-22 months

Agronomic demonstration of obtaining in vitro cultures

Responsible Partner:

- University North - D. Samec - Croatia
- Czech University of Life Sciences - E. C. Fernández - Czech Republic
- UNIBAS_DiS



Theoretical-practical demonstration of the “best practices” necessary in order to obtain the maximum quantity of specialized biologically active metabolites through optimal growth conditions both through *in vitro* cultures.

It will be interesting to be able to see the agronomic world of Lucania species through the eyes of two different foreign countries.

The activities will then be replicated at the Unibas headquarters.





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Work Packages 7

7-22 months

The world invisible to the naked eye: genes

Responsible Partner:

- Crop Research Institute - J. Ovesná - Czech Republic
- ALSIA - Crescenzi-Cerbino- Basilicata
- UNIBAS_DiS



Theoretical-practical demonstration in which the foreign partner will be assisted by the ALSIA. The latter, in fact, will provide the plant material for the practical section, being the repository of the genomic material of our species under study.

The analysis and genetic sequencing of the three Lucania species will be carried out with modern equipment showing what may be the genetic peculiarities of our local peculiarities in one of the two laboratories responsible for the WP coordinated by the DIS.





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Work Packages 8

4-24 months

Theoretical-practical meeting on traditional and innovative procedures for the chemical characterization of Basilicata species

Responsible Partner:

- Uni Kiel - C. Zidorn - Germany
- Bulgarian Academy of Sciences - N. T. Tzvetkov - Bulgaria
- University of Naples Federico II - V. Costantino - Campania
- University of Salerno - N. de Tommasi - Campania
- UNIBAS_DiS



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Theoretical-practical demonstration of “best practices” relating to the phytochemical field of the chemical characterization of plant matrices. Demonstrations and training will be carried out on tools, such as UHPLC-MS, by the responsible partners (Unina, Germany and Bulgaria) and UNIBAS. The classical and traditional qualitative-quantitative methods for determining the chemical composition of plant species will be accompanied by innovative and bioinformatic approaches of “Molecular Networking” and “Molecular Docking”. The activities will then be replicated at the Lucana headquarters.





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Work Packages 9

7-22 months

Theoretical-practical meeting for the evaluation of the in vitro biological activity of natural products

Responsible Partner:

- University of Porto - P. C. R. Valentão - Portugal
- UNIBAS_DiS



Training meeting for the dissemination and exchange of knowledge and optimized experimental protocols in the field of natural products and biological activities.

The main methods for the evaluation of biological activity such as antioxidant, anticholinesterase, cytotoxic, hypoglycemic, or in any case related to cosmeceutics and nutraceuticals, and the strategies for the selection of *in vitro* colorimetric, biochemical and/or enzymatic assays will be highlighted. Both “*in tube*” and on cell cultures. Aspects relating to data analysis and statistics for the interpretation of results will be disseminated.

Where possible, the activities will then be replicated at the Lucana headquarters.



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Work Packages 10

7-22 months

Demonstration of preclinical, toxicological and immunological studies of natural products

Responsible Partner:

- Czech Academy of Sciences - L. Vannucci - Czech Republic
- Universidad de Granada - J. J. Gálvez Peralta - Spain
- Universidad de la Laguna - C. Rubio Armendáriz - Spain
- UNIBAS_DiS



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Training meeting in which international partners will transfer their knowledge regarding preclinical studies, the toxicological and immunological aspects of natural substances/products. The training meeting will aim to provide information on the selection of animal models, on the safety and efficacy of a compound/natural product, determination of the dose associated with the lowest degree of toxicity, on the duration of treatment and the route of administration, but also on the diffusion of knowledge on immunological aspects. Where possible, the activities will then be replicated at the Lucana headquarters.



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Work Packages 11

7-22 months

Theoretical and practical demonstration: from the plant to the supplement

Responsible Partner:

- University of Thessaly_O. Gortzi_Greece
- UNIBAS_DiS



Theoretical-practical seminar focused on the technological-pharmaceutical aspect to show how a plant species can become a food supplement, a cosmetic or a drug.

The seminar held by the Greek research group will mainly focus on the evaluation of the best pharmaceutical formulation capable of carrying out the pharmacological activities shown by the natural products studied.

Where possible, the activities will then be replicated at the Lucana headquarters.





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Work Packages 12

7-24 months

Communicate, disseminate and promote the link

Responsible Partner: UNIBAS_DiS with all Partners



Implement the skills and competences of each partner in their sector of the supply chain through websites and other promotional materials, publications in international newspapers as well as through international conferences and meetings.

The networking of good practices will involve the connection between the countries of the EU partnership that will make it possible to benefit from the results of the project both for partners and for local and foreign companies.

An indispensable tool will be the website www.paprikanet.it under construction at the moment.





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pharmaceutics

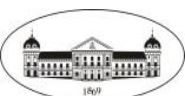


Article

New Insight on the Bioactivity of *Solanum aethiopicum* Linn. Growing in Basilicata Region (Italy): Phytochemical Characterization, Liposomal Incorporation, and Antioxidant Effects

Immacolata Faraone ^{1,2,†}, Ludovica Lela ^{1,†}, Maria Ponticelli ^{1,*}, Domenico Gorgoglione ³, Filomena De Biasio ³, Patricia Valentão ⁴, Paula B. Andrade ⁴, Antonio Vassallo ^{1,5}, Carla Caddeo ⁶, Roberto Falabella ⁷, Angela Ostuni ^{1,2} and Luigi Milella ^{1,*}

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Article

Rhanteriol, a New *Rhanterium suaveolens* Desf. Lignan with Pharmacological Potential as an Inhibitor of Enzymes Involved in Neurodegeneration and Type 2 Diabetes

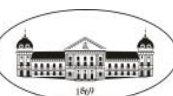
Soumia Belaabed¹, Ayoub Khalfaoui¹, Valentina Parisi^{2,3}, Valentina Santoro², Daniela Russo^{4,5} , Maria Ponticelli^{4,*} , Magnus Monné⁴ , Khellaf Rebbas⁶, Luigi Milella^{4,*} and Giuliana Donadio²

IMPACT FACTOR 4.5

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Funding: This research was funded by Regione Basilicata; Project “Plant Active Products: Research, Innovation and Knowledge Advancements through an International NETwork—PAPRIKANET.IT” CUP: C39J20001740002 POR FESR Basilicata 2014-2020; Italian Ministry of the Economic Development “Fondo per la Crescita Sostenibile—Sportello “Agrifood” PON I&C 2014-2020”, Project FULLNESS n. F/200099/01-03/X45.





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Systematic Review

An Insight into *Citrus medica* Linn.: A Systematic Review on Phytochemical Profile and Biological Activities

Nadia Benedetto ^{1,†}, Vittorio Carlucci ^{1,†}, Immacolata Faraone ^{1,2} , Ludovica Lela ¹ , Maria Ponticelli ^{1,*} , Daniela Russo ^{1,3} , Claudia Mangieri ¹, Nikolay T. Tzvetkov ⁴ and Luigi Milella ^{1,*}

IMPACT FACTOR 4.5	Indexed in: PubMed	CITESCORE 5.4
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ELSEVIER

Phytochemistry

Volume 206, February 2023, 113518





The healing bitterness of *Gentiana lutea* L., phytochemistry and biological activities: A systematic review

6.1

CiteScore

4.004

Impact Factor

Maria Ponticelli^a, Ludovica Lela^a, Mariapia Moles^a, Claudia Mangieri^a, Donatella Bisaccia^c,
Immacolata Faraone^{a b}, Roberto Falabella^d, Luigi Milella^a  

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Capsicum annum L. cv Senise: *from food to liposomes with high-value antioxidant potential*

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