

Elisa Brasili

Curriculum Vitae

Last update: March 1, 2021

Part I – Education

PhD 2014, 21 February - Sapienza, University of Rome - PhD in Botanical Sciences
Department of Environmental Sciences
Advisor: Prof. G.Pasqua
Title of PhD thesis: “Non-targeted metabolomics approach to evaluate the effect of biomass growth and chitosan elicitation on primary and secondary metabolism in *Hypericum perforatum* in vitro roots”

University graduation 2009, 18 December - Sapienza, University of Rome - Degree in Applied Cellular Biology full marks with honors
Advisors: Proff. A.Miccheli and E.Mengheri
Title of the thesis: “Evaluation of immunological and metabolomic changes induced by aging in mice: study of the effect of probiotics”
The thesis work was carried out at CREA-NUT (ex- INRAN) in collaboration with the Department of Chemistry at the University Sapienza of Rome

2007, 24 February - Sapienza, University of Rome - Degree in Biological Sciences –
Advisors: Proff. G.Tocco and E.Mengheri
Title of thesis: “Effect of probiotics on T regulatory cells in a mouse model with experimentally induced colitis”.
The thesis work was carried out at ex- INRAN (ex-INRAN)

Post-graduate studies 2012-2013, Master’s Degree in Dietetics and Clinical Nutrition

High School 2001 – Liceo Classico “A.Meucci” (Aprilia)

Spoken Languages Italian
English
Portuguese

Part II – Appointments

IIA – Academic Appointments

- From 28/02/2018 to 28/02/2021
- “Ricercatore a Tempo Determinato di Tipo A” (RTDA)
Sapienza, University of Rome - Department of Environmental Biology
- From 01/08/2016 to 31/01/2018
- Post-doctoral fellowship
Food Research Center (FoRC), CEPID-FAPESP (Research Innovation and Dissemination Centers São Paulo Research Foundation), São Paulo, Brazil.

Faculty of Pharmacy, Department of Food and Experimental Nutrition,
University of São Paulo, Brazil.

Project Title: Metabolomic approach to evaluate the effect of orange
juice intake in healthy volunteers

- From 01/03/2015
to 31/07/2016
- Post-doctoral fellowship
National Council for Scientific and Technological Development (CNPq), Brazil.
Faculty of Pharmacy, Department of Food and Experimental Nutrition,
University of São Paulo, Brazil.
Project Title: Comparative study of *Citrus sinensis* (L.) Osbeck cv. 'Cara Cara' and cv. 'Bahia' Juices.
- From 01/03/2014
to 30/09/2014
- Sapienza *post-lauream* fellowship “Perfezionamento all'estero”
UNIVALI – Universidade do Vale do Itajai (Brazil)
Work activities:
 - Characterization of methanolic extracts of *H. perforatum*, *H. tomentosum* and *H. tetrapterum*
 - Characterization of methanolic extracts of *Campomanesia reitziana* (Gabirola)

IIB – Other Appointments

- From 15/04/2010
to 31/12/2011
- Co.Co.Co Contract – CREA NUT (Ex – Istituto nazionale di Ricerca sugli Alimenti e la Nutrizione), Roma, Italy

Part III – Teaching experience

- Courses**
- A.A. 2017-2018 - Botany
Bachelor of Agro-Industrial Biotechnology
Sapienza, University of Rome
 - A.A. 2018-2019 - Botany
Bachelor of Agro-Industrial Biotechnology
Sapienza, University of Rome
 - A.A. 2019-2020 - Botany
Bachelor of Agro-Industrial Biotechnology
Sapienza, University of Rome
 - A.A. 2018-2019- Bioactive compounds from plant waste products
Master Course “Manager chiave nell'industria nutraceutical e cosmeceutica”
Sapienza, University of Rome
 - A.A. 2019-2020- Bioactive compounds from plant waste products
Master Course “Manager chiave nell'industria nutraceutical e cosmeceutica”
Sapienza, University of Rome
 - A.A 2018-2019 Teacher for “Progetto di Alternanza Scuola Lavoro Lab2go” Sapienza, University of Rome

- A.A 2018-2020 Educational workshops for degree courses in Biology and Natural Sciences. Sapienza, University of Rome
- Bachelor thesis advisor**
- A.A 2019-2020 Mario Ruscetta “Il microbiota delle piante: struttura, funzioni ed applicazioni in agricoltura”, c.d.l. Agro-Industrial Biotechnology
Sapienza University of Rome
 - A.A. 2019-2020 Vittoria Nisticò “Nanoparticelle polimeriche per il rilascio controllato di molecole bioattive nelle piante”, c.d.l. Agro-Industrial Biotechnology
Sapienza University of Rome
- Post-graduate schools**
- Lecturer at the School of Pharmaceutical Sciences “Daily consumption of orange juice from *Citrus sinensis* L. Osbeck affects Gut Microbiota Profiling as unveiled by an integrated meta-omics approach”
University of São Paulo - Brazil (2017).
 - Lecturer at at the School of Pharmaceutical Sciences “Metabolomics in Nutritional Research: Concepts and Applications”
University of São Paulo (USP)- Brazil (2016).
 - Lecturer at at the School of Pharmaceutical Sciences “NMR Spectroscopy: Basic Principles, Concepts, and Applications in Metabolomics: Part II”.
University of São Paulo (USP) - Brazil (2015).
 - Lecturer at at the School of Pharmaceutical Sciences “NMR Spectroscopy: Basic Principles, Concepts, and Applications in Metabolomics: Part I.
University of São Paulo (USP) - Brazil (2015).
 - Lecturer at at the School of Pharmaceutical Sciences “Metabolomics in the study of gut microbiota-host interactions”
University of São Paulo (USP) - Brazil (2015).
 - Lecturer at the School of Pharmaceutical Sciences “A non-targeted metabolomics approach to evaluate the effects of biomass and chitosan elicitation on primary and secondary metabolism of *Hypericum perforatum* *in vitro* roots.”
UNIVALI, Universidade do Vale do itajai, Brazil (2014)

Part IV – Service activities, Society memberships, Awards and Honours

- Awards and Honours**
- “Abilitazione Scientifica Nazionale per il settore concorsuale 05/A1- Botanica” Valid from 12/11/2020 to 12/11/2029

- A.A. 2018-2019 “Riconoscimento di eccellente insegnamento universitario” at Sapienza University of Rome
- Spin off**
 - Funding Partner of *Vivita*: an innovative Sapienza Startup focusing on research of plant natural ingredients with biological activity for medical advices and food supplements. Approved by Sapienza Spin off Commission in 24/02/2020
- Editorial work**
 - Subject Editor for *Natural Product Research*
- Memberships**
 - Member of “Società Botanica Italiana” (SBI) onlus since 2017
 - Subscription at “Ordine Nazionale dei Biologi” since 2013 (AA_068490)
- Academic**
 - Member of the Scientific Committee of Conference for young botanists, CYBO, Genova, 6th- 7th February 2020
 - Member of the teaching committee for the organization of Bachelor and degree course in Agro-Industrial Biotechnology
 - Member of degree committee for the c.d.l. Agro-Industrial Biotechnology

Part V - Funding Information (I-investigator)

- Progetto MISE
B.I.C.Y.**
 - Progetto PON MISE “Fabbrica intelligente, Agrifood e Scienze della vita” 2014-2020 FESR, progetto B.I.C.Y. (Biostimulants increase crops yield). I- 210.000 €.
- Progetto BIONUTRA**
 - Progetto PNR 2015-2020 “Sviluppo di Nutraceutici da Fonti Naturali” – Area -Agrifood. I - 48.300 €.
- Progetto Ateneo 2020**
 - Activity against fungal biofilm and evaluation of chemical composition of purple carrot extracts from industrial processing wastes. I - 10.000 €
- Progetto Ateneo 2019**
 - Innovative approaches for controlling *Botrytis cinerea*, causal agent of the grey mold disease in tomato by using poly (lactic-co-glycolic acid) nanoparticles for the controlled release of the antifungal fluopyram. I- 39.000 €
- Progetto Grandi
Attrezzature 2019**
 - Integrated Smart PHYTOTRON for simulations of global change environmental conditions to analyze and monitor in real time the morpho-functional effects of biotic and abiotic stress on natural and crop plant species. I- 530.000 €
- Progetto Ateneo 2018**
 - Sustainable cultivation of the medicinal plant *Hypericum perforatum* (L.): soil saprotrophic fungi for growth-promoting and resistance-induction. I- 54.800 €

- METABORANGE**
- 2015-2017. Metabolomic approach to evaluate the effect of orange juice intake in healthy volunteers. Comparative study of *Citrus sinensis* (L.) Osbeck cv. 'Cara Cara' and cv. 'Bahia' Juices. (Clinical Trial NCT02685124). Funded by FAPESP and CNPq -I
- ALIETA 2009**
- ALIETA Project (Functional foods for Advanced Age). 2009-2012. Optimization and promotion of Italian products to improve the quality of life of older people. WP1 in research project entitled “Qualità alimentare e funzionale (QUALIFU)”. Funded by “Ministero per le Politiche Agricole, Alimentari e Forestali” (DM 2087/7303/09 del 28/01/2009) - I.

Part VI – Research Activities

Research Topics

- Plant System Biology** Metabolomics based approaches to evaluate the effect of abiotic and biotic stresses on primary and secondary metabolism of medicinal and food plants as: *Hypericum perforatum*, *Daucus Carota* and *Cichorium intybus*. The major outcome on this topic appeared on papers III, XII, XV.
- Plant Cell Biology and Development** Study of the effect of elicitors as chitosan on plant cell growth and development. In *in vitro* models from medicinal plants are used. The achievements in this topic appeared on Plant Cell Reports (VI and XI). Collection, characterization, propagation and maintenance of plant germplasm using *in vitro* culture techniques for plant conservation and reintroduction (XIV).
- Plant Biotechnology** Nanobiotechnology as a new strategy for the improvement of plant growth and remediation purposes. Use of PLGA nanoparticles to study endocytosis processes in plant. The results appeared on paper VIII. Study of the effect of zero-valent iron nanoparticles on plant growth performance and evaluation of their efficacy for remediation purposes of contaminated water with hexavalent chromium. The results recently appeared on Scientific Reports (I).
- Biological activity of plant extracts** Characterization of plant bioactive compounds. Study of biological activity of plant extracts and single bioactive compounds. A special attention is placed on antimicrobial activity of plant extracts against plant and human diseases. The major outcomes on this topic are reported in papers II, IV, V, VI, VII, IX, X, XIII

Methodologies

- Metabolomic platforms** GC-MS spectrometry and ¹H-NMR spectroscopy based approach to investigate plant metabolism.

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Statistical analysis | Experience in multivariate analysis using software Unscramble and Sigma Plot: statistical models, data mining and biological interpretation |
| Extraction techniques | Development of extraction protocols to obtain plant bioactive compounds |
| Plant cell cultures | Experience with plant cell, tissue, and organ cultures. Histological and histochemical analysis of plant tissues. Use of confocal fluorescence microscopy and flow cytometry. |
| Course | <p>II Workshop on Metabolomics, National Laboratory of Science and Technology of Bioethanol (CTBE), Campinas, SP, Brazil (2016).</p> <p>Agilent Training (R3900A): GCMS Operation with MassHunter Data Analysis. Agilent Technologies, São Paulo, Brazil (2016)</p> <p>1° Scuola di Metodologie Chimiche: Moderne Metodologie Chimico-Fisiche per le nuove Frontiere della Chimica. Istituto di Metodologie Chimiche (CNR) (2010)</p> |

Part VII – Main Collaborations

Based on publications with co-authors from 4 different institutions:

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|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Universidade do Vale do Itajai, Brazil | Prof. V.F. Cechinel | Characterization of bioactive compounds from food and medicinal plants [10,17,20, 22] |
| University of São Paulo, Brazil | Proff. F.M. Lajolo, NMA Hassimotto, E. Purgatto | Metabolomics approach to study the effect of plant bioactive compounds in human and plant metabolism [9,13,15,18] |
| Unit of Human Microbiome, Children's Hospital and Research Institute Bambino Gesù, Rome, Italy | Prof. L. Putignani, Dott. Del Chierico F., Quagliarello A. | Study of plant bioactive compounds on gut microbiota profiling [9] |
| Azienda agricola Aureli Mario | W.Aureli | Progetto MISE B.I.C.Y. [1] |

Part VIII- Conferences

Oral Contributions at International Conferences

- O1 “Daily consumption of orange juice from *Citrus sinensis* L. Osbeck affects Gut Microbiota profiling as unveiled by an integrated metabolomics approach”
8th International Conference on Polyphenols and Health, 3 – 6 October 2017, Quebec City, Canada.
- O2 “Dietary anticancer compounds”
VIII Simpósio Ibero-americano de Plantas Medicinais e III Simpósio Ibero-americano de Investigação em Câncer, 24 - 27 October 2016, Itajai, SC, Brasil.
- O3 “Non-targeted metabolomics approach to evaluate the effect of biomass growth and chitosan elicitation on primary and secondary metabolism in *Hypericum perforatum in vitro* roots”
6th Annual *Hypericum* Meeting., 2013, Kosice (Slovak Republic).
- O4 “An integrated metabolomics approach to evaluate the effects of orange juice intake in healthy volunteers”
2nd International Symposium Advances in Food Science and Nutrition, 11-12 September 2017, Food Research Center – FoRC, University of São Paulo, SP, Brasil.
- O5 “Estudo comparativo da ingestão de sucos de laranja Pera (comum) e Caracara (rica em licopeno), em humanos saudáveis: abordagem metabolômica”
Workshop “Food Bioactive Compounds”, 6 June 2016, Food Research Center – FoRC, University of São Paulo, SP, Brasil.
- O6 “Citricos revisitados novos achados para hesperidina”
Conference SupplySide Brazil, 14-15 June 2016, Pavilhão do Anhembi, São Paulo, SP, Brasil.

Oral Contributions at National workshops

- O7 “Transcriptomic analysis reveals a higher expression of genes involved in pre-formed defences in American grapevine *Vitis rupestris* compared to Eurasian grapevine *Vitis vinifera*”.
Riunione Annuale dei gruppi di lavoro SBI. Biologia Cellulare e Molecolare. Biotecnologie e Differenziamento. Napoli, 12-14 Giugno 2019.
- O8 “Effect of chitoooligosaccharides on xanthone and volatile compound biosynthesis in *Hypericum perforatum* L. root cultures”. Riunione Annuale dei gruppi di lavoro SBI. Biologia Cellulare e Molecolare. Biotecnologie e Differenziamento. Sanremo 13-15 Giugno 2018.
- O9 “A non-targeted metabolomic analysis of *in vitro* regenerated roots of *Hypericum perforatum* L”.
Work groups for cell and molecular biology and for biotechnology and differentiation. 2013, Ferrara (Italy).

O10 “Metabolomics analysis of regenerated *in vitro* roots Analisi metabolomica di radici rigenerate *in vitro* di *Hypericum perforatum* subsp.*angustifolium* in risposta all'elicitazione”.
Work groups for cell and molecular biology and for biotechnology and differentiation. **2012**, Abano - Terme, Padova, (Italy).

O11 A study on the primary and secondary metabolism of *Hypericum perforatum* roots by NMR.
2012, 5th Young Congress, University Sapienza of Rome.

**Poster
Contributions**

P1 “Remediation of Cr(VI) contaminated water by iron nanoparticles and impact of reused water on tomato plant growth”.
Share Science. Rome, 28-30 October **2019**.

P2 “Reuse of reclaimed wastewater from hexavalent chromium through iron based nanoparticles on tomato plant growth”.
SBI 114° Congresso della Società Botanica Italiana. VI INTERNATIONAL PLANT SCIENCE CONFERENCE (IPSC).
Padova, 4 - 7 September **2019**

P3 “Remediation of hexavalent chromium contaminated water by iron nanoparticles and impact of reused water on tomato plant growth”.
NanoInnovation 2019, Rome, 11-14 June **2019**.

P4 “Effect of age and probiotic supplementation on the mouse metabolome – a look into the homeostenosis window”.
Metabomeeting **2012**. Manchester (UK). Abstract book, p.108

P5 “Probiotic treatment induced age dependent metabolic changes”.
6Th Probiotics, Prebiotics & New Foods. **2011**, Rome. Book of Abstracts, p.5111-13.

P6 “Supplementation with *Lactobacillus helveticus* and *Bidifobacterium longum* induced immunological changes in Moderate Malnourished Elderly Subjects”.
6Th Probiotics, Prebiotics & New Foods. **2011**, Rome. Book of Abstracts, p.46.

P7 “Inhibition of inflammatory cascade in intestinal cells by *Lactobacillus amylovorus*. **2011**, 15th International Congress of Mucosal Immunology, Paris, Book of Abstract, p.175.

P8 “Probiotics and Aging: Evaluation of immunological and metabolic changes”. Metabolomics 2011. **2011**, Cairn, Australia. Book of Abstract. p.5427-30.

P9 “Immunological Changes in elderly subjects after probiotic supplementation”. World Immune Regulation Meeting (WIRM). **2011**, DAVOS, Switzerland.

- P10 “Probiotics and aging: evaluation of immunological and metabolic changes”.
7th European Mucosal Immunology Group meeting. **2010**,
Amsterdam. Abstract book, p. 6829.
- P11 “Modulation of innate immune response in intestinal cells by
Lactobacillus sobrius”.
7th European Mucosal Immunology Group meeting. **2010**,
Amsterdam. Abstract book, p. 6829.

Part IX – Selected Publications

- I. *Remediation of hexavalent chromium contaminated water through zero-valent iron nanoparticles and effects on tomato plant growth performance*
Brasili, E., Bavasso, I., Petrucci, V., Vilardi G., Valletta A., Dal Bosco C., Gentili A., Pasqua, G., Di Palma, L.
SCIENTIFIC REPORTS, **2020**, 10, 1920 IF **3.998 Citations: 21**
- II. *In vitro antimicrobial activity of plant extracts against Pseudomonas syringae pv. actinidiae causal agent of bacterial canker in kiwifruit*
Simonetti, G., Pucci, N., Brasili, E., Valletta A., Sammarco I., Carnevale E., Pasqua, G., Loreti, S.
PLANT BIOSYSTEMS, **2020**, 154, 100–106 IF **1.787 Citations: 5**
- III. *Nmr-based metabolomic study of purple carrot optimal harvest time for utilization as a source of bioactive compounds*
Sciubba, F., Tomassini, A., Giorgi, G., Brasili E., Pasqua G., Capuani G., Aureli, W., Miccheli, A.
APPLIED SCIENCES (Switzerland), **2020**, 10, 1–13, 8493. IF **2.474 Citations: 0**
- IV. *Anti-Candida biofilm activity of pterostilbene or crude extract from non-fermented grape pomace entrapped in biopolymeric nanoparticles*
Simonetti, G., Palocci, C., Valletta A., Kolesova, O., Chronopoulou, L., Donati, L., Di Nitto, A., Brasili E., Tomai G., Gentili, A., Pasqua, G.
MOLECULES, **2019**, 24, 2070 IF **3.267 Citations: 6**
- V. *Daily Consumption of Orange Juice from Citrus sinensis L. Osbeck cv. Cara Cara and cv. Bahia Differently Affects Gut Microbiota Profiling as Unveiled by an Integrated Meta-Omics Approach*
Brasili, E., Hassimotto, N.M.A., Del Chierico, F., Marini F., Quagliarello A., Sciubba F., Miccheli A., Putignani, L., Lajolo, F.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, **2019**, 67, 1381–1391
IF **4.192 Citations: 13**
- VI. *Chitosan oligosaccharides affect xanthone and VOC biosynthesis in Hypericum perforatum root cultures and enhance the antifungal activity of root extracts*
Badiali, C., De Angelis, G., Simonetti G., Brasili E., De Castro Tobaruela E., Puraggo E., Yin H., Valletta, A., Pasqua, G.
PLANT CELL REPORTS, **2018**, 37, pp. 1471–1484 IF **3.499 Citations: 12**

- VII. *Metabolomics of cancer cell cultures to assess the effects of dietary phytochemicals*
Brasili, E., Filho, V.C.
 CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, **2017**, 57, 1328–1339 **IF 6.202 Citations: 11**
- VIII. *Endocytic pathways involved in PLGA nanoparticle uptake by grapevine cells and role of cell wall and membrane in size selection*
 Palocci, C., Valletta, A., Chronopoulou, L., Donati L., Bramosanti M., Brasili E., Baldan, B., Pasqua, G.
 PLANT CELL REPORTS, **2017**, 36, 1917–1928 **IF 2.989 Citations: 20**
- IX. *Prenylated flavonoids and total extracts from Morus nigra L. Root bark inhibit in vitro growth of plant pathogenic fungi*
 Simonetti, G., Brasili, E., D’Auria, F.D., Corpolongo S., Ferrari F., Pasqua, G., Valletta, A.
 PLANT BIOSYSTEMS, **2017**, 151, 783–787 **IF 1.203 Citations: 4**
- X. *Effect of Pasteurization on Flavonoids and Carotenoids in Citrus sinensis (L.) Osbeck cv. Cara Cara' and Bahia' Juices*
Brasili, E., Chaves, D.F.S., Xavier, A.A.O., Mercadante, A.Z., Hassimotto, N.M.A., Lajolo, F.M.
 JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, **2017**, 65, 1371–1377. **IF 3.412 Citations: 23**
- XI. *Acetic acid acts as an elicitor exerting a chitosan-like effect on xanthone biosynthesis in Hypericum perforatum L. root cultures*
 Valletta, A., De Angelis, G., Badiali, C., Brasili E., Miccheli A., Di Cocco, M.E., Pasqua, G.
 PLANT CELL REPORTS, **2016**, 35, 1009–1020 **IF 2.869 Citations: 17**
- XII. *Metabolic profile and root development of hypericum perforatum L. in vitro roots under stress conditions due to chitosan treatment and culture time*
Brasili, E., Miccheli, A., Marini, F., Praticò G., Sciubba F., Di Cocco M.E.; Cechinel V.F., Tocci N., Valletta, A., Pasqua, G.
 FRONTIERS IN PLANT SCIENCE, **2016**, 7, 507 **IF 4.291 Citations: 12**
- XIII. *In vitro antifungal activity of extracts obtained from Hypericum perforatum adventitious roots cultured in a mist bioreactor against planktonic cells and biofilm of Malassezia furfur*
 Simonetti, G., Tocci, N., Valletta, A., Brasili E., D’Auria F.D., Idoux, A., Pasqua, G.
 NATURAL PRODUCT RESEARCH, **2016**, 30, 544–550 **IF 1.828 Citations: 29**
- XIV. *Strategies for ex situ conservation of Centaurea cineraria subsp. circae (Asteraceae), an endemic plant from Lazio (Italy)*
 Valletta, A., Santamaria, A.R., Fabrini, G., Tocci N., Cechinel V.F., Brasili, E., Pasqua, G.
 PLANT BIOSYSTEMS, **2016**, 150, 323–332. **IF 1.390 Citations: 4**
- XV. *A non-targeted metabolomics approach to evaluate the effects of biomass growth and chitosan elicitation on primary and secondary metabolism of Hypericum perforatum in vitro roots*
Brasili, E., Praticò, G., Marini, F., Valletta A., Capuani G., Sciubba F., Miccheli, A., Pasqua, G.
 METABOLOMICS, **2014**, 10, 1186–1196 **IF 3.885 Citations: 19**

Part X- Full publications list

1. *Comparative transcriptomics and metabolomics in Vitis vinifera 'Malvasia' and Vitis rupestris 'Du Lot' cultured cells provide insights in possible innate resistance against pathogens*
Brasili, E., Donati, L., Sciubba, F., Ferretti L., Miccheli, A., Pasqua, G.
PLANT BIOSYSTEMS, **2021** IF 1.787 Citations: 0
2. *Nmr-based metabolomic study of purple carrot optimal harvest time for utilization as a source of bioactive compounds*
Sciubba, F., Tomassini, A., Giorgi, G., Brasili E., Pasqua G., Capuani G., Aureli, W., Miccheli, A.
APPLIED SCIENCES (Switzerland), **2020**, 10, 1–13, 8493. IF 2.474 Citations: 0
3. *Remediation of hexavalent chromium contaminated water through zero-valent iron nanoparticles and effects on tomato plant growth performance*
Brasili, E., Bavasso, I., Petruccelli, V., Vilardi G., Valletta A., Dal Bosco C., Gentili A., Pasqua, G., Di Palma, L.
SCIENTIFIC REPORTS, **2020**, 10, 1920 IF 3.998 Citations: 21
4. *Antifungal Activity of Phenolic and Polyphenolic Compounds from Different Matrices of Vitis vinifera L. Against Human Pathogens*. Invited Review article.
Simonetti, G., Brasili, E., Pasqua, G.
MOLECULES, **2020**, 25, 3748 IF: 3.267 Citations: 1
5. *Antifungal activity of dimethyl sulfoxide against Botrytis cinerea and phytotoxicity on tomato and lettuce plants.*
Petruccelli, V., Brasili, E., Varone, L., Valletta, A., Pasqua, G.
PLANT BIOSYSTEMS, **2020**, 154, 455–462 IF 1.787 Citations: 0
6. *In vitro antimicrobial activity of plant extracts against Pseudomonas syringae pv. actinidiae causal agent of bacterial canker in kiwifruit*
Simonetti, G., Pucci, N., Brasili, E., Valletta A., Sammarco I., Carnevale E., Pasqua, G., Loreti, S. PLANT BIOSYSTEMS, **2020**, 154, 100–106. IF 1.787 Citations: 5
7. *Anti-Candida biofilm activity of pterostilbene or crude extract from non-fermented grape pomace entrapped in biopolymeric nanoparticles.*
Simonetti, G., Palocci, C., Valletta, A., Kolesova, O., Chronopoulou, L., Donati, L., Di Nitto, A., Brasili E., Tomai P., Gentili A., Pasqua, G.
MOLECULES, **2019**, 24, 2070. IF 3.267 Citations: 6
8. *Supplementation with Bifidobacterium longum Bar33 and Lactobacillus helveticus Bar13 mixture improves immunity in elderly and old mice.*
Finamore A, Roselli M, Donini LM, Brasili E, Rami R, Carnevali P, Mistura L, Pinto A, Giusti AM, Mengheri E.
NUTRITION, **2019**, 63-64, 184–192 IF 3.639 Citations: 9

9. *Daily Consumption of Orange Juice from Citrus sinensis L. Osbeck cv. Cara Cara and cv. Bahia Differently Affects Gut Microbiota Profiling as Unveiled by an Integrated Meta-Omics Approach*
Brasili, E., Hassimotto, N.M.A., Del Chierico, F., Marini F., Quagliarello A., Sciubba F., Miccheli A., Putignani, L., Lajolo, F.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, **2019**, 67, 1381–1391 IF 4.192 Citations: 13
10. *Functional foods as source of bioactive principles: Some marked examples*
Campos, A., Brasili, E., Cechinel-Zanchett, C.C., Filho, V.C.
Book Chapter Natural Products as Source of Molecules with Therapeutic Potential: Research and Development, Challenges and Perspectives, **2018**, pp. 111–157. Citation: 0
11. *Chitosan oligosaccharides affect xanthone and VOC biosynthesis in Hypericum perforatum root cultures and enhance the antifungal activity of root extracts*
Badiali, C., De Angelis, G., Simonetti G., Brasili E., De Castro Tobaruela E., Puraggo E., Yin H., Valletta, A., Pasqua, G.
PLANT CELL REPORTS, **2018**, 37, pp. 1471–1484 IF 3.499 Citations: 12
12. *Beneficial effects of a selected probiotic mixture administered to high fat-fed mice before and after the development of obesity*
Roselli M, Finamore A, Brasili E., Rami R, Nobili F, Orsi C, Zambrini AV., Mengheri, E
JOURNAL OF FUNCTIONAL FOODS, **2018**, 45, 321-329. IF 3.197 Citations: 12
13. *Orange juice affects acylcarnitines metabolism in healthy volunteers as revealed by a mass-spectrometry based metabolomics approach*
Moreira V, Brasili E., Fiamoncini J, Marini F, Miccheli A, Daniel H, Ji Hye Lee J, Hassimotto NMA, Lajolo F.
FOOD RESEARCH INTERNATIONAL, **2018**, 107, 346-352. IF 3.579 Citations: 11
14. *Endocytic pathways involved in PLGA nanoparticle uptake by grapevine cells and role of cell wall and membrane in size selection*
Palocci, C., Valletta, A., Chronopoulou, L., Donati L., Bramosanti M., Brasili E., Baldan, B., Pasqua, G.
PLANT CELL REPORTS, **2017**, 36, 1917–1928 IF 2.989 Citations: 20
15. *Proteomic Analysis of Peripheral Blood Mononuclear Cells after a High-Fat, High-Carbohydrate Meal with Orange Juice*
Chaves, D.F.S., Carvalho, P.C., Brasili, E., Rogero, M.M. Hassimotto, N.A., Diedrich, J.K., Moresco, J.J, Yates, J.R., Lajolo, F.M.
JOURNAL OF PROTEOME RESEARCH, **2017**, 16, 4086–4092 IF 3.950 Citations: 8.
16. *Prenylated flavonoids and total extracts from Morus nigra L. Root bark inhibit in vitro growth of plant pathogenic fungi*
Simonetti, G., Brasili, E., D’Auria, F.D., Corpolongo S., Ferrari F., Pasqua, G., Valletta, A.
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17. *Metabolomics of cancer cell cultures to assess the effects of dietary phytochemicals*
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CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, **2017**, 57, 1328–1339 IF 6.202 Citations: 11

18. *Effect of Pasteurization on Flavonoids and Carotenoids in Citrus sinensis (L.) Osbeck cv. Cara Cara' and Bahia' Juices*
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Part XI – Summary of Scientific Achievements

According to Scopus database from 2012 to 2021

| Products | Number | Database |
|--------------------|--------|----------|
| Papers | 27 | SCOPUS |
| Books [scientific] | 1 | SCOPUS |

| | |
|-----------------------------------|-------|
| Total Impact factor | 81.5 |
| Average Impact factor per Product | 3.01 |
| Total Citations | 328 |
| Average Citations per Product | 12.14 |
| Hirsch (H) index | 12 |

Ai fini della pubblicazione in ottemperanza all'art. 26 del D. Lgs. 33/2013 e all'art. 4 in materia di protezione dei dati personali

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