

# Curriculum vitae

## PERSONAL INFORMATION

Surname and Name

Address

Telephone

E-mail

Nationality

Date of birth

**Antonella Smeriglio**

## WORK EXPERIENCE

Date  
Occupation or position held

Name and address of employer

From January 01, 2018

Research fellow in Pharmacognosy on the Project " Autochthonous sources of secondary metabolites with potential tyrosinase-inhibitory activity" (Prof. Antonio Imbesi Foundation)

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina

Date  
Occupation or position held

Name and address of employer

Academic year 2015-2016

Role of teaching tutor into "Clinical Pharmacy: Oncology compounding" Second level master

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina

Date  
Occupation or position held

Name and address of employer

May 2015-December 2017

Research fellow for Specialization in Pharmacognosy (Prof. Antonio Imbesi Foundation)

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina

Date  
Occupation or position held

Name and address of employer

January-April 2015

Research fellow in "Research and development of nano-systems aimed at targeted drug delivery (TDD) in oncology - Project-PON02\_00355\_2964193.

Department of Drug Sciences and Health Products (SCIFAR), University of Messina

Date  
Occupation or position held

Name and address of employer

Academic year 2013-2014

Research fellow as Senior Researcher in technology and quality of drinking, mineral and still water

Department of Drug Sciences and Health Products (SCIFAR), University of Messina

Date  
Occupation or position held  
Name and address of employer

Academic years 2010-2013

PhD student in "Experimental, Environmental and Labor toxicology" XXV° cycle

Department of Drug Sciences and Health Products (SCIFAR), University of Messina

Skills acquired

Antioxidant and free radical scavenging studies and characterization of plant extracts by HPLC-DAD-MS and GC-MS; Chromatographic, Spectrophotometer and Atomic absorption spectroscopy (AAS) methods for the study and characterization of environmental and food chain contaminants.

Cell based bioassays for the study of cell viability, cytotoxicity and cell-specific functionality using colorimetric and fluorimetric techniques, protein secretion test and gene expression studies by RT-PCR; Cellular biodistribution studies by GC-MS and HPLC UV-VIS/FLU instruments.

|                              |   |
|------------------------------|---|
| Date                         | Academy year 2011-2012  |
| Occupation or position held  | Role of teaching tutor into "Diagnostic and Molecular Methodologies to human health" Second level master            |
| Name and address of employer | Department of Drug Sciences and Health Products (SCIFAR), University of Messina                                     |
| Date                         | From December 5, 2011   |
| Occupation or position held  | Scientific collaboration still in progress with the Department of Veterinary Public Health and Food Safety (DSPVSA) |
| Name and address of employer | Istituto Superiore di Sanità (ISS)-Rome   |
| Date                         | September 2007-September 2010   |
| Occupation or position held  | Experimental thesis in pharmacology-toxicology  |
| Name and address of employer | Department of Drug Sciences and Health Products (SCIFAR), University of Messina                                     |

## EDUCATION AND TRAINING

|  |  |
|--|--|
| Date   | December 12, 2017  |
| Occupation or position held                                    | Specialization in Pharmacognosy with votes 50/50 with honor, with an experimental thesis entitled "Aldose reductase as a therapeutic target in diabetic complications: new inhibitors from standardized <i>Cannabis sativa</i> L. CBD and CBG-type extracts".  |
| Name and address of employer                                   | Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina   |
| Date   | July 05, 2017  |
| Occupation or position held                                    | B2 English level certificate   |
| Name and address of employer                                   | Centro linguistico d'Ateneo Messinese (CLAM)   |
| Date   | July 16, 2014  |
| Occupation or position held                                    | Title of "Head of Research in the nutraceutical and pharma-food industry"  |
| Name and address of employer                                   | University of Messina, "NUTRALifeHi-Nutraceutical care & Food for Specific Health Uses" project-PON 01_01499 Hi-LIFE   |
| Date   | April 12, 2013   |
| Title of qualification awarded                                 | PHD in "Experimental, Environmental and Labor Toxicology" XXV° cycle with a thesis titled "Intracellular distribution and biological effects on male fertility of polyphenols and contaminants of the food chain in an <i>in vitro</i> system model" carried out in collaboration with Istituto Superiore di Sanità (ISS)-Rome |
| Name and type of organisation providing education and training | Department of Drug Sciences and Health Products (SCIFAR), University of Messina  |
| Date   | October 17-18, 2013  |
| Title of qualification awarded                                 | "Mass Spectrometry of biomolecules: clinical and proteomic applications"   |
| Name and type of organisation providing education and training | Italian Chemical Society - Mass spectrometry Division  |
| Date   | June 11-14, 2012   |
| Title of qualification awarded                                 | LC-MS 2012 "Advanced course on the coupling of mass spectrometry with separation techniques in liquid phase",  |
| Name and type of organisation providing education and training | Italian Chemical Society – Mass Spectrometry Division  |
| Date   | December 15, 2009  |
| Title of qualification awarded                                 | Admitted to the Pharmacist Profession  |
| Name and type of organisation providing education and training | Order of Pharmacists, Messina  |

Date October 29, 2009  
 Title of qualification awarded Master's Degree in Pharmacy 14/S class with votes 110/110 with an experimental thesis entitled "Influence of exogenous and endogenous factors on the functional and organoleptic characteristics of *Lycopersicon esculentum* Mill." carried out in collaboration with the Plant Research international of Wageningen, Netherland

Name and type of organisation providing education and training Faculty of Pharmacy, University of Messina

Date April 8, 2009 – September 8, 2009  
 Title of qualification awarded Experience abroad at Plant Research International, Wageningen, Netherland

Name and type of organisation providing education and training Plant Research International, Wageningen Netherland  
 Skills aquired Excellent skills in the field of molecular biology, metabolomics and gene silencing

Title of qualification awarded Scientific diploma, Brocca scientific address

Name and type of organisation providing education and training Scientific high school Archimede, Messina

Date 2002/2003  
 Title of qualification awarded Regional Operator Course on Personal Computer  
 Name and type of organisation providing education and training Informatic Center, Messina

**PERSONAL SKILLS AND COMPETENCES**

MOTHER TONGUE  
 OTHER LANGUAGES  
*self-assessment*

Italian

*English*  
*French*

| <i>Reading skills</i> |                | <i>Verbal skills</i> |               | <i>Writing skills</i> |
|-----------------------|----------------|----------------------|---------------|-----------------------|
| <i>Spoken</i>         | <i>Written</i> | <i>Interaction</i>   | <i>Spoken</i> | <i>Written</i>        |
| Excellent             | Excellent      | Fairly good          | Fairly good   | Excellent             |
| Good                  | Good           | Good                 | Good          | Good                  |

**TECHNICAL SKILLS AND COMPETENCES**

Good use of computer, Office package, Internet and Mail

**DRIVING LICENCE (s)**

B

**COURSES**

Training course for staff who attended laboratories– University of Messina, December 12, 2008

Training course under the D.Lgvo 81/08 on "X-ray equipment and radiological hazards "University of Messina, February 23, 2009

ISPESL University of Messina "The D.Lgs 81/08" 2009

Workshop on "Microarray & Biotechnology over 2010" – Biosistema&Bioteltec –February 15, 2010, Catania

Workshop on "Risk-benefit assessment and food safety "from farm to fork" into italian reality" Istituto Superiore di sanità – Rome –February 14, 2011

CEFPAS Workshop on "Experiences of accreditation of testing laboratories in the region of Sicily in the field of food safety and inspection of water intended for human consumption" March 31, 2011, Caltanissetta

Principles of ionizing radiation in the university-April 29, 2011 - University of Messina

CISEF Training course "Biotechnologies and Medicine", June 10, 2011  
Messina

Training course on work safety respect art. 37 D.L.vo 81/08, Faculty of Pharmacy, November 9, 2011, Messina

XX National Workshop "Evaluation of use and drugs safety: Italian experiences"-Rome - December 12/13, 2011- Istituto Superiore di Sanità

Chromatographic analytical techniques in environmental monitoring and food safety-Catania-  
October 1, 2012-Thermo scientific

Third conference on "Evaluation of biocidal products: problems and new legislation"- Rome –  
November 06, 2012- Istituto Superiore di Sanità

Ultra performance-MS Technology Seminar" –Messina- June 05, 2013-Waters

## COMMUNICATIONS TO CONGRESS

### ANNEX I

## PUBLICATIONS AND PATENTS

### ANNEX II

## AWARDS

Travel Grant Award by Phytochemical Society during the 2<sup>nd</sup> International PSE Symposium on "Natural Product in Cancer Prevention and Therapy" for an oral communication entitled "Intracellular distribution and biological effects of plant bioactives in a sex steroid-sensitive model of human prostate adenocarcinoma";

Grant Award by Italian Society of Pharmacology during the 38° Congresso Nazionale della Società Italiana di Farmacologia on "Farmaci, Salute e Qualità della Vita" Palacongressi di Rimini 25-28 Ottobre 2017 for the best poster titled "Antioxidant effects of a hydroxytyrosol-based pharmaceutical formulation on body composition, metabolic state, and gene expression: a randomized double-blinded, placebo-controlled crossover trial".

Messina November 02, 2018

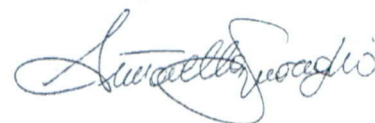
Under articles n.38-46 of the decree of the President of the Republic (D.P.R.) n. 445/2000, I declare to be aware that false statements are punishable under the Penal Code and special laws according to the penalties specified into article n.76

Signature



I declare, also, to be informed, pursuant to and by effect of art. 13 of Legislative Decree no. 196/2003 that the personal data information will be treated, including by informatic tools, only part of the proceedings to which this declaration is made.

Signature

A handwritten signature in black ink, appearing to read "A. Smeriglio". The signature is written in a cursive style with a large initial 'A' and a long, sweeping underline.

## ANNEX I – CONTRIBUTIONS TO CONGRESS

1. Morabito G., Cristani M., Naccari C., **Smeriglio A.**, Mancari F., Saija A. and Trombetta D. Antioxidant properties of essential oils from Sicilian aromatic plants. 8th Indo-Italian Workshop on Chemistry and Biology of Antioxidants, November 30-December 1, 2010.
2. S. Dahamna, D. Bouamra, M. Marghem, S. Boussahel, K. Dehimi, A. Saija, M. Cristani, **A. Smeriglio**, D. Trombetta. Antioxidant properties of aqueous and organic extracts from leale of *Thymelaea Microphylla*. Alimed 2011–Mediterranean diet, May 22-25, 2011, Palermo.
3. **A. Smeriglio**, R. Zena, P. Lo Cascio, G. Dugo, N. Cicero, T. Granata, A. Saija, D. Trombetta. Heavy metal and polycyclic aromatic hydrocarbons content, polyphenolic profile and antioxidant properties of globe artichokes from an area near a petrochemical plant. Alimed 2011–Mediterranean diet, May 22-25, 2011, Palermo.
4. S. Anwar, **A. Smeriglio**, E. Ricciardi, A. Speciale, A. Saija, F. Virgili, F. Cimino. Bilberry anthocyanins prevent hyperoxia-induced alterations in human endothelial cells via MAPK phosphorylation. 35°National Congress of Italian pharmacology society "Drug: from research to human health", September 14-17, 2011, Bologna
5. Cristani M., Zena R., **Smeriglio A.**, Mancari F., Saija A., Trombetta D. Polyphenolic profile and antioxidant properties of globe artichokes exposed to environmental pollutants. 10th Indo-Italian Workshop on Chemistry and Biology of Antioxidants, November 9-13, 2011.
6. R. Zena, **A. Smeriglio**, G. Dugo, A. Saija, D. Trombetta Biomolecular effects of environmental pollution on globe artichoke (*Cynara cardunculus* var. *scolymus* L.) VIII International Symposium on Artichoke, Cardoon and their wild relatives-Viterbo, Italy on April 10 – 13, 2012.
7. Stefano Lorenzetti, Daniele Marcoccia, Laura Narciso, Ilaria Altieri, **Antonella Smeriglio**, Laura Basile, Domenico Trombetta, Marco Pintore, Alberto Mantovani; An alternative method to study Endocrine Active Chemicals: searching for a lower limit screening (anti)androgenic-like compounds affecting prostate-mediated male fertility. International Workshop: Low Dose Effects and Non-Monotonic Dose Responses for Endocrine Active Chemicals: Science to Practice- Charité Universitätsmedizin, Berlin, Germany, September 11- 13, 2012.
8. Daniele Marcoccia, Laura Narciso, **Antonella Smeriglio**, Domenico Trombetta, Stefano Lorenzetti, Testicular dysgenesis syndrome: a prostate-based assay to detect chemicals which may alter male reproductive development- "Primary prevention of congenital malformations"-Rome, November 5, 2012-Istituto Superiore di Sanità.
9. **Antonella Smeriglio**, Daniele Marcoccia, Laura Narciso, Stefano Lorenzetti, Domenico Trombetta, Safety and efficacy of herbal remedies in pregnancy: an update- "Primary prevention of congenital malformations"-Rome, November 5, 2012-Istituto Superiore di Sanità.
10. **Antonella Smeriglio**, Domenico Trombetta, Daniele Marcoccia, Laura Narciso, Stefano Lorenzetti, Intracellular distribution and biological effects of plant bioactives in a sex steroid-sensitive model of human prostate adenocarcinoma, "International Symposium on Natural Products in Cancer Prevention and Therapy"-25-28 June, 2013 - Naples, Italy.
11. **Antonella Smeriglio**, Domenico Trombetta, Daniele Marcoccia, Antonio Tomaino, Laura Narciso, Stefano Lorenzetti, Intracellular distribution and biological effects of Vinclozolin and its metabolites in a sex steroid-sensitive model of human prostate adenocarcinoma, 36° CONGRESSO NAZIONALE DELLA SOCIETÀ ITALIANA DI FARMACOLOGIA "Il ruolo della RICERCA farmacologica per la CRESCITA e la SALUTE in Italia" Torino, 23-26 ottobre 2013.
12. **Antonella Smeriglio**, Domenico Trombetta, Antonio Tomaino, A meta-analysis of piperacillin/tazobactam and carbapenems in cancer patients with febrile neutropenia, 36° CONGRESSO NAZIONALE DELLA SOCIETÀ ITALIANA DI FARMACOLOGIA "Il ruolo della RICERCA farmacologica per la CRESCITA e la SALUTE in Italia" Torino, 23-26 October 2013.

13. V. Cascone, G. Rizza, A. **Smeriglio**, A. Tomaino, Lack of bcg for the treatment of bladder cancer: pharmacoeconomic and clinical impact, 19th Conference of the EAHP 26-28 March 2014, Barcelona, Spain.
14. **Smeriglio**, A., Giovinazzo, C., Trombetta, D., Extra Virgin Olive Oil as functional food: standardization process based on scientific evidences, XXIII° SILAE Congress, 7-12 September 2014, Marsala Italy.
15. Marcocchia D., **Smeriglio** A., Alipieva K.I., Georgiev M., Mantovani A., Trombetta D., Lorenzetti S. DHT-induced PSA secretion to screen plant bioactives with an anti-androgen-like activity. EFSA's Scientific Conference "Shaping the Future of Food Safety, Milan, Italy (14-16 October 2015).
16. D. Marcocchia, **A. Smeriglio**, K.I. Alipieva, M.I. Georgiev, A. Mantovani, D. Trombetta, S. Lorenzetti. DHT-induced PSA secretion to screen plant bioactive/extract androgen-like activity. *Reproductive Toxicology* 08/2015; 56:23-24.
17. **A. Smeriglio**, E.M. Galati, M.T. Monforte, G. Favazzi, C. Circosta. Antioxidant properties of finola hemp (*cannabis sativa* L.) Seed oil. XIV Congresso della Societa' Italiana di Fitochimica 2015. Padova, 10-12 giugno 2015.
18. **A. Smeriglio**, E.M. Galati, M.T. Monforte, G. Favazzi, V. D'Angelo, C. Circosta. Characterization of polyphenols and evaluation of antioxidant activity of finola hemp (*Cannabis sativa* L.) seed oil. 37° National Congress of Italian pharmacology society "I nuovi orizzonti della ricerca farmacologica: tra etica e scienza", 27-30 October, 2015 – Naples, Italy.
19. **A. Smeriglio**, S. Giunta, D. Barreca, E. Bellocco, D. Trombetta. Polyphenolic content and biological properties of Avola almond (*Prunus dulcis* Mill. D.A. Webb) skin and its industrial byproducts. 37° National Congress of Italian pharmacology society "I nuovi orizzonti della ricerca farmacologica: tra etica e scienza", 27-30 October, 2015 – Naples, Italy.
20. N. Ferlazzo, G. Visalli, **A. Smeriglio**, S. Cirimi, G.E. Lombardo, A. Di Pietro, M. Navarra. Bergamot juice extract protects human lung epithelial cells from oxidative stress. 37° National Congress of Italian pharmacology society "I nuovi orizzonti della ricerca farmacologica: tra etica e scienza", 27-30 October, 2015 – Naples, Italy.
21. **Antonella Smeriglio**, Enza Maria Galati, Salvatore Giofrè, Maria Teresa Monforte, Valeria D'Angelo, Gianpaolo Grassi and Clara Circosta. Inhibitory effect on aldose reductase activity of standardized extracts of *Cannabis sativa* L. chemotypes. XXIV Congresso Nazionale di Fitoterapia. Arezzo 27-29 Maggio 2016.
22. **Antonella Smeriglio**, Salvatore Ragusa, Maria Teresa Monforte, Valeria D'angelo and Clara Circosta. Phytochemical analysis and antioxidant properties of *euphorbia dendroides* L. Latex. 111° Congresso della società botanica italiana III International Plant Science Conference (IPSC) Roma 21- 23 september 2016.
23. **Antonella Smeriglio**, Maria Teresa Monforte, Simona Pergolizzi, Clara Circosta, Enza Maria Galati. Fruits of *rubus fruticosus* L. Grown in sicily: Phytochemical analysis and biological effects. IV Incontro SYRP: S.I.Fit. Young Researchers Project Giovani Ricercatori in Fitoterapia Padova, 19 dicembre 2016
24. **Antonella Smeriglio**, Enza M. Galati, Gianluigi Aliberto, Maria T. Monforte and Clara Circosta. Antioxidant activity of seed oils from *cannabis sativa* L. Varieties. XXV Congresso Nazionale di Fitoterapia Arezzo 26 - 28 Maggio 2017.
25. **Smeriglio**, **Antonella**; Bisignano, Carlo; Mandalari, Giuseppina; Trombetta, Domenico; Musarra Pizzo, Maria; Pennisi, Rosamaria; Sciortino, Maria Teresa. Almond skin extracts exhibited antiviral activity against herpes simplex virus type 1. Vienna Polyphenols Congress 2017, 11° World Congress on Polyphenols applications. University of Vienna, Austria 20-21 June, 2017.
26. **Antonella Smeriglio**, Enza M. Galati, Gianluigi Aliberto, Maria T. Monforte and Clara Circosta. Polyphenolic profile and fatty acids composition of seed oils and their byproducts from *cannabis sativa* L. Varieties with potential health-promoting properties. XV Congress of the Italian Society of Phytochemistry jointly with 1st International Congress on Edible. Medicinal and Aromatic Plants (ICEMAP 2017) Sala Convegna Polo Piagge – Pisa. 28-30 June 2017

27. **Antonella Smeriglio**, Salvatore Ragusa, Maria Teresa Monforte, Valeria D'Angelo and Clara Circosta. *Euphorbia dendroides* L. (Euphorbiaceae) latex: polyphenols characterization and evaluation of antioxidant and radical scavenging properties. 112° Congresso della società botanica italiana IV International Plant Science Conference (IPSC) Parma, Campus Universitario, 20 - 23 September 2017
28. L. Cornara, **A. Smeriglio**, E. Di Gristina, J. Frigerio, M. Labra, D. Trombetta. The problem of misidentification between a wild edible plant and a poisonous one: the case of borage. 112° Congresso della società botanica italiana IV International Plant Science Conference (IPSC) Parma, Campus Universitario, 20 - 23 September 2017
29. C. Bisignano, M. D'Arrigo, O. Romeo, **A. Smeriglio**, M. Denaro, D. Trombetta, G. Mandalari. "The essential oil from *Pistacia vera* L. variety bronte hull is active against clinical isolates of candida spp." 45° Congresso nazionale della società italiana di microbiologia: SIM 2017, Genova Palazzo ducale 27-30 Settembre 2017.
30. **A. Smeriglio**, E. M. Galati, S.V. Giofrè, M.T. Monforte, N. Cicero, V. D'Angelo, G. Grassi and C. Circosta. Aldose Reductase Inhibitors from *Cannabis sativa* L. Standardized Extracts. 38° Congresso Nazionale della Società Italiana di Farmacologia "Farmaci, Salute e Qualità della Vita" Palacongressi di Rimini 25-28 Ottobre 2017
31. Marcella Denaro, **Antonella Smeriglio**, Davide Barreca, Antonella Calderaro, Carlo Bisignano, Giovanna Ginestra, Ersilia Bellocco and Domenico Trombetta. In vitro evaluation of antioxidant, cytoprotective and antimicrobial properties of essential oil of *Pistacia vera* L. variety Bronte hull. 38° Congresso Nazionale della Società Italiana di Farmacologia "Farmaci, Salute e Qualità della Vita" Palacongressi di Rimini 25-28 Ottobre 2017
32. **Antonella Smeriglio**, Terri Grassby, Giuseppina Mandalari, Myriam M.-L. Grundy, Cathrina H. Edwards, Carlo Bisignano, Domenico Trombetta, , Simona Chessa, Shuvra Ray, Jeremy Sanderson, Sarah E. Berry, Peter R. Ellis, Keith W. Waldron. In vitro and in vivo modeling of lipid bioaccessibility and digestion from almond muffins: the importance of the cell-wall barrier mechanism. 38° Congresso Nazionale della Società Italiana di Farmacologia "Farmaci, Salute e Qualità della Vita" Palacongressi di Rimini 25-28 Ottobre 2017
33. Domenico Trombetta, Laura Di Renzo, **Antonella Smeriglio**, Sergio Bernardini, Giorgia Cioccoloni, Renata Miranda, Paola Gualtieri, Antonino De Lorenzo. Antioxidant effects of a hydroxytyrosol-based pharmaceutical formulation on body composition, metabolic state, and gene expression: a randomized double-blinded, placebo-controlled crossover trial. 38° Congresso Nazionale della Società Italiana di Farmacologia "Farmaci, Salute e Qualità della Vita" Palacongressi di Rimini 25-28 Ottobre 2017
34. **Antonella Smeriglio**, Serena Bonasera, Maria Paola Germanò, Valeria D'Angelo, Maria Teresa Monforte, Clara Circosta and Enza Maria Galati. Betalains profile and evaluation of antioxidant and anti-angiogenic properties of sicilian *opuntia ficus-indica* (L.) Mill. Fruits. VI Incontro SYRP: S.I.Fit. Young Researchers Project - Repubblica di San Marino - 20 novembre 2017
35. **A. Smeriglio**, M. Denaro, D. Milea, C. De Stefano, D. Trombetta. "Simultaneous detection of chlorpyrifos and permethrin in post-mortem human plasma by GC-MS analysis". Le indagini forensi ed il contributo della spettrometria di massa, Roma 23 Marzo 2018.
36. **A. Smeriglio**, D. Trombetta, M. Denaro, C. Giovanazzo, A. Mosca, A. Alisi, A. Crudele, V. Nobili. Hydroxytyrosol-based formulation on children with non-alcoholic fatty liver disease: a randomized double-blinded, placebo-controlled trial. Convegno Nutraceutica Alimentazione E Salute. Focus Su Salute In Gravidanza, Messina 11-12 Maggio 2018
37. M. Denaro, D. Barreca, **A. Smeriglio**, D. Trombetta. Pistachio (*Pistacia vera* L.) hull as nutraceutical source of Cyanidin-3-O-galactoside. Convegno Nutraceutica Alimentazione E Salute. Focus Su Salute In Gravidanza, Messina 11-12 Maggio 2018
38. **A. Smeriglio**, L. Cornara, M. Denaro, D. Barreca, B. Burlando, D. Trombetta. "Antioxidant and cytoprotective activity of an ancient mediterranean citrus fruit (*Citrus lumia* Risso) albedo extract: microscopic observations and polyphenolic characterization." XXVI Congresso Nazionale di Fitoterapia; 25-27 Maggio, Fiuggi.



39. **Antonella Smeriglio**, Domenico Trombetta, Valeria D'Angelo, Maria Paola Germanò. Anti-melanogenic activity and toxicity profile of black carrot crude extract (*Daucus carota* L. ssp. *sativus* var. *Atrorubens* Alef.) In the zebrafish model. XXVI Congresso Nazionale di Fitoterapia; 25-27 Maggio, Fuggi.
40. M. Bazzicalupo, M. Denaro, **A. Smeriglio**, D. Trombetta, J. Calevo, A. Giovannini, L. Cornara. "Bioactive compounds of flowers from giant orchid (*Himantoglossum robertianum* Loisel.) P. Delforge, 1999 showing antioxidant properties." Riunione annuale del gruppo di lavoro SBI Biologia cellulare e molecolare, biotecnologie e differenziamento. CREA; 13-15 Giugno 2018, Sanremo.
41. D. Trombetta, **A. Smeriglio**, J. Frigerio, M. Labra, E. Di Gristina, M. Denaro, E. Mora, L. Cornara. Il problema dell'errata identificazione tra piante selvatiche commestibili e velenose: reports dall'area mediterranea. 1° Workshop "La chimica analitica forense" Università degli studi di Catania Città delle Scienze, 20 Giugno 2018.
42. **Antonella Smeriglio**, Serena Bonasera, Maria Paola Germanò, Valeria D'Angelo, Davide Barreca, Marcella Denaro, Domenico Trombetta. *Opuntia ficus-indica* (L.) Mill. fruit as source of betalains with antioxidant, cytoprotective and anti-angiogenic properties. PSE Congress: Natural Compounds in Cancer Prevention and Therapy, 3rd Edition: Trends in methods and modelling. Naples September 4-7, 2018
43. Denaro M., **Smeriglio A.**, Trombetta D. Pistachio hull extract as source of Ideain: absorption, transport and anti-inflammatory studies on Caco-2 transwell model. XXVII SILAE CONGRESS OF ETHNOMEDICINE. Milazzo (Messina, Italy) - September, 9-13, 2018
44. Germanò M.P., D'Angelo V., Raimondo F.M., **Smeriglio A.** Anti-angiogenic activity of *Alnus glutinosa* (L.) Gaertn. (Betulaceae). XXVII SILAE CONGRESS OF ETHNOMEDICINE. Milazzo (Messina, Italy) - September, 9-13, 2018
45. Marcella Denaro, **Antonella Smeriglio**, Domenico Trombetta, Gianpaolo Grassi and Clara Circosta. Phytochemical analysis and antioxidant properties of *Cannabis sativa* L. essential oil from a chinese accession. 113° Congresso della Società Botanica Italiana. V International Plant Science Conference (IPSC) Fisciano Campus Universitario September 12-15, 2018
46. Salvatore Ragusa, **Antonella Smeriglio**, Marcella Denaro, Valeria D'Angelo, Domenico Trombetta and Clara Circosta. Phytochemical screening and antioxidant activity of *Euphorbia dendroides* L. Leaves extract. 113° Congresso della Società Botanica Italiana. V International Plant Science Conference (IPSC) Fisciano Campus Universitario September 12-15, 2018
47. **Antonella Smeriglio**, Valeria D'Angelo, Marcella Denaro, Domenico Trombetta, Francesco Maria Raimondo, Maria Paola Germanò. *Alnus glutinosa* (L.) Gaertn. and *Alnus cordata* (Loisel) Duby as new sources of safe cosmetic and pharmacological anti-melanogenic agents. 113° Congresso della Società Botanica Italiana. V International Plant Science Conference (IPSC) Fisciano Campus Universitario September 12-15, 2018
48. Miriam Bazzicalupo, Marcella Denaro, **Antonella Smeriglio**, Domenico Trombetta, Jacopo Calevo, Annalisa Giovannini, Cornara Laura. Antioxidant activities of extracts from various portions of giant orchid, *Himantoglossum robertianum* (Loisel.) P. Delforge. 113° Congresso della Società Botanica Italiana. V International Plant Science Conference (IPSC) Fisciano Campus Universitario September 12-15, 2018
49. Domenico Trombetta, Susanna Alloisio, Francesco Maria Raimondo, Marcella Denaro, Laura Cornara, **Antonella Smeriglio**. Olio essenziale di *Citrus lumia* Risso: profilo fitochimico, proprietà antiossidanti e attività sul sistema nervoso centrale. 5° CONGRESSO NAZIONALE SIROE, Teramo 19-20 Ottobre 2018.

#### Participation to Congress as Invited Speaker

1. Essential oil of *Citrus lumia* Risso: phytochemical profile, antioxidant properties and activity on the central nervous system. 4th European Biopharma Congress & 6th International Conference and exhibition on Pharmacology and Ethnopharmacology. November 09-11, 2017 Vienna
2. Phytochemical Composition and Biological Activities of Essential Oils from Two *Cannabis sativa* L. Biotypes. XXVII SILAE CONGRESS OF ETHNOMEDICINE. Milazzo (Messina, Italy) - September, 9-13, 2018

**Participation to Congress as Invited Moderator**

4<sup>th</sup> European Biopharma Congress & 6<sup>th</sup> International Conference and exhibition on Pharmacology and Ethnopharmacology. November 09-11, 2017 Vienna

## ANNEX II- PUBLICATIONS AND PATENTS

### PUBLICATIONS

1. Stefano Lorenzetti, Pamela Bulzomi, Francesca Del Sole, Maria Maddalena Marconi, Laura Narciso, **Antonella Smeriglio**, Roberto Zena, Domenico Trombetta; La valutazione rischio-beneficio di polifenoli e fitocomplessi, ISTISAN 12/50 report
2. Anil Kumar Saikia, Dipak Chetia, Manuela D'Arrigo, **Antonella Smeriglio**, Tonia Strano, Giuseppe Ruberto, Screening of Fruit and Leaf Essential Oils of *Litsea cubeba* Pers. from North-East India – Chemical Composition and Antimicrobial Activity, *Journal of Essential Oil Research*, March 20, 2013.
3. **Antonella Smeriglio**, Daniele Marcoccia, Laura Narciso, Stefano Lorenzetti, Domenico Trombetta; Sicurezza ed efficacia dei rimedi erboristici in gravidanza, ISTISAN 13/28 report.
4. Daniele Marcoccia, Laura Narciso, **Antonella Smeriglio**, Domenico Trombetta, Stefano Lorenzetti; La Sindrome della Disgenesia Testicolare: un saggio prostata-mediato per individuare sostanze chimiche che potrebbero alterare lo sviluppo riproduttivo maschile, ISTISAN 13/28 report.
5. **Antonella Smeriglio**, Antonio Tomaino and Domenico Trombetta; Herbal products in pregnancy: experimental studies and clinical reports. *Phytotherapy Research* 2014 Jan 7.
6. **Antonella Smeriglio**, Domenico Trombetta, Daniele Marcoccia, Laura Narciso, Alberto Mantovani, Stefano Lorenzetti; Intracellular distribution and biological effects of plant bioactives in a sex steroid-sensitive model of human prostate adenocarcinoma. *Anticancer Agents Med Chem*. 2014 Jun 24.
7. **Antonella Smeriglio**, Domenico Monteleone and Domenico Trombetta; Health Effects of *Vaccinium myrtillus* L.: Evaluation of Efficacy and Technological Strategies for Preservation of Active Ingredients. *Mini-Reviews in Medicinal Chemistry*, 2014 Vol.14 No.7.
8. Nadia Ferlazzo, Giuseppa Visalli, **Antonella Smeriglio**, Santa Cirmi, Giovanni Enrico Lombardo, Pietro Campiglia, Angela Di Pietro, Michele Navarra; Flavonoid Fraction of Orange and Bergamot Juices Protect Human Lung Epithelial Cells from Hydrogen Peroxide-Induced Oxidative Stress. *Evid Based Complement Alternat Med*. Epub 2015 Jun 21.
9. **Antonella Smeriglio**, Corrado Giovinazzo, Domenico Trombetta. Development and Validation of RP-HPLC-DAD Method to Quantify Hydroxytyrosol Content in a Semi-Solid Pharmaceutical Formulation. *Medicinal Chemistry* 5(10): 442-446 (2015).
10. Davide Barreca, Giuseppina Laganà, Ugo Leuzzi, **Antonella Smeriglio**, Domenico Trombetta, Ersilia Bellocco; Evaluation of the nutraceutical, antioxidant and cytoprotective properties of ripe pistachio (*Pistachia vera* L. variety Bronte) hulls. *Food Chemistry* 196 (2016) 493–502.
11. **Antonella Smeriglio**, Giuseppina Mandalari, Carlo Bisignano, Angela Filocamo, Davide Barreca, Ersilia Bellocco, Domenico Trombetta. Polyphenolic content and biological properties of Avola almond (*Prunus dulcis* Mill. D.A. Webb) skin and its industrial by products. *Industrial Crops and Products* Volume 83, May 2016, Pages 283–293.
12. **Antonella Smeriglio**, Enza M. Galati, Maria T. Monforte, Francesco Lanuzza, Valeria D'Angelo and Clara Circosta. Polyphenolic Compounds and Antioxidant Activity of Cold-Pressed Seed Oil from Finola Cultivar of *Cannabis sativa* L. *Phytother Res*. 2016 Aug;30(8):1298-307.
13. **Antonella Smeriglio**, Davide Barreca, Ersilia Bellocco, Domenico Trombetta. Chemistry, pharmacology and health benefits of Anthocyanins - *Phytother Res*. 2016 Aug;30(8):1265-86.
14. Mandalari G, Vardakou M, Faulks R, Bisignano C, Martorana M, **Smeriglio A**, Trombetta D. Food Matrix Effects of Polyphenol Bioaccessibility from Almond Skin during Simulated Human Digestion. *Nutrients*. 2016 Sep 15;8(9). pii: E568.

15. **Smeriglio A**, Barreca D, Bellocco E, Trombetta D. Proanthocyanidins and hydrolysable tannins: occurrence, dietary intake and pharmacological effects. *Br J Pharmacol*. 2016 Sep 20.
16. Bellocco, E., Barreca, D., Laganà, G., Calderaro, A., El Lekhlifi, Z., Chebaibi, S., **Smeriglio, A.**, Trombetta, D. Cyanidin-3-O-galactoside in ripe pistachio (*Pistachia vera* L. variety Bronte) hulls: Identification and evaluation of its antioxidant and cytoprotective activities. *Journal of Functional Foods*. 27, 1 December 2016, Pages 376-385
17. Trombetta D, **Smeriglio A**, Marcoccia D, Giofrè SV, Toscano G, Mazzotti F, Giovanazzi A, Lorenzetti S. Analytical Evaluation and Antioxidant Properties of Some Secondary Metabolites in Northern Italian Mono- and Multi-Varietal Extra Virgin Olive Oils (EVOOs) from Early and Late Harvested Olives. *Int J Mol Sci*. 2017 Apr 11;18(4).
18. Barreca D, Gattuso G, Bellocco E, Calderaro A, Trombetta D, **Smeriglio A**, Laganà G, Daglia M, Meneghini S, Nabavi SM. Flavanones: Citrus phytochemical with health-promoting properties. *Biofactors*. 2017 Jul 8;43(4):495-506.
19. **Antonella Smeriglio**, Marcella Denaro, Davide Barreca, Antonella Calderaro, Carlo Bisignano, Giovanna Ginestra, Ersilia Bellocco and Domenico Trombetta. In Vitro Evaluation of the Antioxidant, Cytoprotective, and Antimicrobial Properties of Essential Oil from *Pistacia vera* L. Variety Bronte Hull. *Int. J. Mol. Sci*. 2017, 18(6), 1212; doi:10.3390/ijms18061212.
20. Colica C., Di Renzo L., Trombetta D., **Smeriglio A.**, Bernardini S., Cioccoloni G., Costa de Miranda R., Gualtieri P., Sinibaldi Salimei P., De Lorenzo A. Antioxidant Effects of a Hydroxytyrosol-Based Pharmaceutical Formulation on Body Composition, Metabolic State, and Gene Expression: A Randomized Double-Blinded, Placebo-Controlled Crossover Trial. *Oxid Med Cell Longev*. 2017;2017: 2473495. doi: 10.1155/2017/2473495. Epub 2017 Aug 9.
21. **Smeriglio A.**, Denaro M., Trombetta D. Dietary Phytochemicals and Endocrine-related Activities: an update. *Mini Rev Med Chem*. 2018;18(16):1382-1397.
22. Trombetta D, **Smeriglio A**, Cascapera S and Colica C - An hydroxytyrosol-based pharmaceutical formulation for the prevention of cardiovascular disease: a randomized controlled crossover trial. - *Biomedicine & Prevention* (2017) - vol. 1 - (92) - DOI:10.19252/00000005C
23. Bisignano C., Mandalari G., **Smeriglio A.**, Trombetta D., Pizzo MM, Pennisi R., Sciortino MT. Almond Skin Extracts Abrogate HSV-1 Replication by Blocking Virus Binding to the Cell. *Viruses*. 2017 Jul 10;9(7). pii: E178.
24. **Smeriglio A**, Calderaro A, Denaro M, Laganà G, Bellocco E. Effects of isolated isoflavones intake on health. *Curr Med Chem*. 2017 Oct 6. doi: 10.2174/0929867324666171006143047. [Epub ahead of print]
25. Grassby T, Mandalari G, Grundy MM, Edwards CH, Bisignano C, Trombetta D, **Smeriglio A**, Chessa S, Ray S, Sanderson J, Berry SE, Ellis PR, Waldron KW. In vitro and in vivo modeling of lipid bioaccessibility and digestion from almond muffins: The importance of the cell-wall barrier mechanism. *J Funct Foods*. 2017 Oct;37: 263-271.
26. **Smeriglio A**, Denaro M, Barreca D, D'Angelo V, Germanò MP, Trombetta D. Polyphenolic profile and biological activities of black carrot crude extract (*Daucus carota* L. ssp. *sativus* var. *atrorubens* Alef.). *Fitoterapia*. 2018 Jan;124:49-57.
27. **Smeriglio A**, Alloisio S, Raimondo FM, Denaro M, Xiao J, Cornara L, Trombetta D. Essential oil of *Citrus lumia* Risso: Phytochemical profile, antioxidant properties and activity on the central nervous system. *Food Chem Toxicol*. 2018 Sep;119:407-416.
28. **Smeriglio A**, Giofrè SV, Galati EM, Monforte MT, Cicero N, D'Angelo V, Grassi G, Circosta C. Inhibition of aldose reductase activity by *Cannabis sativa* chemotypes extracts with high content of cannabidiol or cannabigerol. *Fitoterapia*. 2018 Jun;127:101-108.

29. Mandalari G, Parker ML, Grundy MM, Grassby T, **Smeriglio A**, Bisignano C, Raciti R, Trombetta D, Baer DJ, Wilde PJ. Understanding the Effect of Particle Size and Processing on Almond Lipid Bioaccessibility through Microstructural Analysis: From Mastication to Faecal Collection. *Nutrients*. 2018 Feb 14;10(2). pii: E213. doi: 10.3390/nu10020213.
30. Monforte MT, **Smeriglio A**, Germanò MP, Pergolizzi S, Circosta C, Galati EM. Evaluation of antioxidant, antiinflammatory, and gastroprotective properties of *Rubus fruticosus* L. fruit juice. *Phytother Res*. 2018 Jul;32(7):1404-1414.
31. Cornara L, **Smeriglio A**, Frigerio J, Labra M, Di Gristina E, Denaro M, Mora E, Trombetta D. The problem of misidentification between edible and poisonous wild plants: Reports from the Mediterranean area. *Food Chem Toxicol*. 2018 Sep;119:112-121.
32. La Camera E, Bisignano C, Crisafi G, **Smeriglio A**, Denaro M, Trombetta D, Mandalari G. Biochemical Characterization of Clinical Strains of *Staphylococcus* spp. and Their Sensitivity to Polyphenols-Rich Extracts from Pistachio (*Pistacia vera* L.). *Pathogens*. 2018 Oct 22;7(4). pii: E82. doi: 10.3390/pathogens7040082.
33. **A. Smeriglio**, S. Ragusa, M. T. Monforte, V. D'angelo, C. Circosta. Phytochemical analysis and evaluation of antioxidant and anti-acetylcholinesterase activities of *Euphorbia dendroides* L. (Euphorbiaceae) latex. *Plant Biosystems*. *Accepted-in press*

## PATENTS

1. Brevetto Nazionale per modello di utilità N°202017000075448, "Capsula alimentare/farmaceutica gastroresistente per il contenimento e la somministrazione di idrossitirosolo". 26 Gennaio 2018
2. Brevetto Nazionale per invenzione industriale N°102016000007757, "Capsula alimentare/farmaceutica gastroresistente per il contenimento e la somministrazione di idrossitirosolo". 13 Luglio 2018.