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Decreto Rettore Università di Roma “La Sapienza” n. 2625 del 2020  
(G.U. n. 89 in data 13-11-2020; Codice concorso 2020RTDB021)

## ANTONELLA DI SOTTO Curriculum Vitae

Place Aquino (FR)

Date 12 December 2020

### Part I – General Information

Full Name	Antonella Di Sotto
Date of Birth	
Place of Birth	
Citizenship	
Status	
Permanent Address	
Mobile Phone Number	
E-mail	
Spoken Languages	Italian (Mother tongue), English (intermediate), French (beginner)

### Part II – Education

Type	Year	Institution	Notes (Degree, Experience...)
School-leaving certificate	1997	Liceo Classico G. Carducci, Cassino, FR	High school diploma in classical studies, mark 60/60
University graduation	2004	Sapienza University - Faculty of Pharmacy, Rome	Degree in Pharmacy, mark 110/110. Experimental thesis in Pharmacognosy. Title of thesis: “In vitro study of the $\beta$ 1- and $\beta$ 2-adrenergic effects of clenbuterol in the guinea pig isolated atria”. Supervisor: Prof. Mazzanti G.
Post-graduate studies	2007	National Institute of Health (ISS) - National Centre for Epidemiology, Surveillance and Health Promotion, Rome	Training course: “Basic course in Epidemiology”
Post-graduate studies	2012	National Institute of Health (ISS) - National Centre for Epidemiology, Surveillance	Training course: “Recognition and reporting of adverse reactions to natural products”

		and Health Promotion, Rome	
PhD	2009	Sapienza University - Dept. of Physiology and Pharmacology “V. Erspamer”, Rome	Toxicology (XXI cycle). Doctoral dissertation: “In vitro genotoxicity studies on some natural fragrances”. Supervisor: Prof. Mazzanti G. PhD Coordinator: Prof. Cuomo V.
Pre-doctorate training	2005	Research Toxicology Center - Pomezia (RM)	Visiting scientist at laboratory of genetic toxicology. Supervisor: Dr. Cinelli S.
Pre-doctorate training	2007-2008	Alma Mater Studiorum, University of Bologna - Dept. of Pharmacology, Bologna	Visiting scientist at laboratory of genetic toxicology. Supervisor: Dr. Maffei F.
Licensure 01	2004	Sapienza University - Faculty of Pharmacy, Rome.	Pharmacist licensure
Licensure 02	2018	Ministry of Education, University and Research (MIUR)	Italian National Scientific Qualification (ASN) for Associate Professor – scientific area 05/G1 - SDS BIO/14 (from November 2018)

### Part III – Appointments

#### IIIA – Academic Appointments

Start	End	Institution	Position
1 February 2019	today	Sapienza University - Dept. of Physiology and Pharmacology “V. Erspamer”, Rome	<b>Research Fellow - Competition Sector (CS) 05/G1, Scientific disciplinary sector (SDS) BIO/14</b> - Dept. of Physiology and Pharmacology “V. Erspamer” - Sapienza University of Rome. Research program: “Evaluation of the ability of natural sesquiterpenes to counteract the smoke-induced hypoxia and autophagy in cancer cells”
2 January 2017	31 December 2018	Sapienza University - Dept. of Physiology and Pharmacology “V. Erspamer”, Rome	<b>Research fellow - 2-year extension (fixed-term researcher RTD-A; art. 24, comma 3, L. 240/2010) - CS 05/G1, SDS BIO/14.</b> Research program: “Identification of new natural substances as potential chemopreventive agents”.
2 January 2014	31 December 2016	Sapienza University - Dept. of Physiology and Pharmacology “V. Erspamer”, Rome	<b>Research fellow (fixed-term researcher RTD-A; art. 24, comma 3, L. 240/2010) - CS 05/G1, SDS BIO/14.</b> (BIO/15 until 16th December 2015; transfer to BIO/14

1 July 2013	31 July 2013	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome
1 June 2010	31 May 2013	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome
7 January 2010	31 May 2010	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome.
1 October 2009	31 December 2009	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome.
1 November 2008	31 January 2009	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome.
1 November 2005	31 October 2008	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome.
15 November 2004	31 October 2005	Sapienza University - Dept. of Physiology and Pharmacology "V. Erspamer", Rome.
April 2002	November 2004	Sapienza University - Dept. of Pharmacology of Natural Substances and General Physiology, Rome.

as issued by Rectoral Decree 112/2016 - Sapienza University).  
Research program: "Identification of new natural substances as potential chemopreventive agents".

**Research fellow.** Research program: "Mutagenicity studies on piperitenone oxide".

**Research fellow (fixed-term researcher RTD; art.1 comma 14 L. 230/05) - CS 05/G1, SDS BIO/15.** Research program: "Pharmaco-toxicological study of natural products and phytochemicals".

**Post-doc Fellow.** Research program: "In vitro studies on the hepatic effects induced by natural products". Funding: Enrico and Enrica Sovena Foundation.

**Post-doc Fellow.** Research program: "Effect of terpenes on micronuclei frequency in human lymphocyte cultures". Funding: Enrico and Enrica Sovena Foundation.

**Post-doc Fellow.** Research program: "Mutagenicity studies on natural substances by the Ames test". Funding: Enrico and Enrica Sovena Foundation.

**PhD student.** Toxicology course (XXI cycle). Research program: "Genotoxicity and antimutagenicity studies on natural substances".

**Research fellow.** Research program: "In vitro evaluation of the toxic hazard due to the use of  $\beta$ -adrenergic drugs in zootechny". Funding: Enrico and Enrica Sovena Foundation.

**Internship for the degree thesis.** Research program: "Studio degli effetti  $\beta_1/\beta_2$  adrenergici del clenbuterolo sull'atrio isolato di cavia".

January 2000	October 2004	Sapienza University of Rome	<b>Student-collaborator for the following positions:</b>
			laboratory assistant of the Analysis of Drugs I exam (degree course of Pharmacy) at Dept. of Pharmaceutical Studies (2001)
			tutor of Chemistry in the degree course of Dentistry Dept. of Biochemical Sciences (2002)
			librarian assistant at Dept. of Microbiology (2000) and at Dept. of Pharmacology of Natural Substances and General Physiology (2003-2004)

### IIIB – Other Appointments

Start	End	Institution	Position
1 April 2015	today	European Food Safety Authority (EFSA)	<b>Member of ISS-Italian Focal Point</b>
July 2016	today	“Vanda Omeopatici Srl” Pharmaceutical Company - Frascati (Rome)	<b>External Toxicology Consultant</b>
23 March 2018	today	Italian Ministry of Education, University, and Research (MIUR) (D.M. 380-13/06/2016)	<b>Member of REPRISE</b> , Register of Expert Peer-Reviewers for Italian Scientific Evaluation
1 July 2019	today	AGENAS (Italian National Agency for Regional Health Services)	<b>Member of AGENAS Expert Panel</b> - Clinical/Organizational/Epidemiological/Social area
30 October 2017	today	University of Bologna	<b>Member of the PhD thesis evaluation task and PhD thesis evaluator</b> - PhD course of Pharmacology and Toxicology, Human Development and Movement Sciences (Evaluation report date: 31 January 2018)
June 2019		Medical Academy of Lithuanian University of Health Sciences of Kaunas	<b>PhD thesis evaluator</b> - PhD in Medical & Health Sciences (Evaluation report date: 26 June 2019)
June 2016	today	SIF – Italian Society of Pharmacology	<b>Contributor in updating the section “Safety della medicina complementare e alternativa”</b> -“Farmacovigilanza SIF” website <a href="http://www.farmacovigilanzasif.org/topics/sezioni/safety-medicina/safety_alternativa_articoli">www.farmacovigilanzasif.org/topics/sezioni/safety-medicina/safety_alternativa_articoli</a>
2015	today	Hindawi Publisher	<b>Academic Editor and Editorial Board Member</b> of Evidence-Based Complementary and Alternative Medicine

		(London, United Kingdom)	
September 2020	today	MDPI Publisher (Basel, Switzerland)	<b>Topic Editor</b> of Nutrients
October 2020	today	MDPI Publisher (Basel, Switzerland)	<b>Guest Editor</b> (Co-Guest Editor Di Giacomo S.) of the Special Issue “ <i>Plant Polyphenols and Human Health: Novel Findings for Future Therapeutic Developments</i> ” in Nutrients (deadline for manuscript submissions, 31 December 2021)
October 2020	today	Frontiers Publisher (Lausanne, Switzerland)	<b>Guest Editor</b> (Co-Guest Editors Di Giacomo S., Vitalone A. and Briz O.) of the Special Issue “ <i>Natural products and hepatic health: light and shadows</i> ” in Frontiers in Pharmacology
2008	today	International Publishers	<b>Reviewer Board Member of International Journals</b>
			Food and Chemical Toxicology, Regulatory Toxicology and Pharmacology, Ecotoxicology and Environmental Safety (ELSEVIER Publisher, Amsterdam, The Netherlands)
			Vaccines, Antioxidants, Molecules, Biomolecules, Applied Sciences, International Journal of Molecular Sciences, Viruses (MDPI Publisher, Basel, Switzerland)
			Phytotherapy Research (Wiley Publisher)
			Oxidative Medicine and Cellular Longevity (Hindawi Publisher, London, United Kingdom)
2009	today	Universities, research centres and companies	<b>Coordinator and investigator of Research Programs with scientific production</b> (referred to the Part X - Complete List of Scientific Publications)
			Research program “ <i>Mutagenicity and antimutagenicity studies on natural substances and byproducts</i> ”. Scientific production - Publications 3,6,8-10,12,13,16,18,20,22,25,27,28, 30,33
			Research Program “ <i>Chemopreventive and chemosensitizing properties of caryophyllane sesquiterpenes in cancer models</i> ”. Scientific production - Publications 31,34,42,45,46,51
			Research program “ <i>Interaction of natural substances with biomembrane models and design of delivery systems</i> ”. Scientific production - Publications 14,21,23,41,55
			Research Program “ <i>Natural sesquiterpenes in the prevention and treatment of cigarette smoke-induced cancerogenesis</i> ”. Scientific production - Publications 29,34
			Research program “ <i>Toxicological studies on chemicals, carbon nanotubes and natural products</i> ”. Scientific production - Publications 1,2,4,5,7,11,15,19,24-26,32,54
			Research program “ <i>Ethnopharmacological studies on medicinal plants</i> ”. Scientific production - Publications 8,22,27,49
			Research program “ <i>Phytochemical characterization and evaluation of the antioxidant, cytoprotective, antiviral and immunomodulatory properties of herbal extracts</i> ”. Scientific production - Publications 38,39,48
			Research Program “ <i>Characterization of the phytochemical and function properties of Capsicum annuum ecotype Cornetto di Pontecorvo DOP</i> ”. Scientific production - Publications 36,37

Research Program “ <i>Characterization of the phytochemical and function properties of local vegetables (Apium graveolens var. bianco di Sperlonga, Solanum lycopersicum var. Torpedino di Fondi, Solanum aethiopicum L. var. Rossa di Rotonda DOP)</i> ” – Project “ <i>e-ALIERB: un OPENLAB per caratterizzare e valorizzare i prodotti alimentari ed erboristici del territorio laziale</i> ”. Scientific production - Publications 44,52
Research Program “ <i>Valorization of plant waste as possible nutraceutical sources</i> ”. Scientific production - Publication 43
Research Program “ <i>Characterization of the phytochemical and biological properties of hemp byproducts</i> ” Scientific production - Publications 40,47,50
Research Program “ <i>Ecotoxicological impact of the shipwrecked of Costa Concordia cruise vessel on the Tuscan Island of Giglio (Italy)</i> ”. Scientific production - Publication 35
Research Program “ <i>Metabolomic and pharmaco-toxicological studies on Lactobacillus reuteri DSM 17938</i> ”. Scientific production - Publication 53

#### Part IV – Teaching experience

Year	Institution	Lecture/Course
2019 - 2020	Sapienza University – Faculty of Pharmacy and Medicine, Rome.	<b>Contract lecturer of “Applied Pharmacognosy”</b> in the degree course of Applied Pharmaceutical Sciences (6 CFU per academic year)
2019	Sapienza University – Faculty of Pharmacy and Medicine, Rome.	<b>Contract lecturer of “Pharmacognostic Biotechnologies”</b> (module of “Pharmacotoxicology of biological medicinal products and Pharmacognostic biotechnologies” exam) in the degree course of Pharmaceutical Biotechnology (3 CFU per academic year)
2017 - 2018	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Lecturer of “Toxicology”</b> (module of the “Pharmacognosy and Toxicology” exam) in the degree course of Applied Pharmaceutical Sciences (6 CFU per academic year)
2015 - today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Lecturer of “Pharmacognosy”</b> (module of the “Applied Pharmacology Toxicology and Pharmacognosy” exam) in the degree course of Pharmaceutical Biotechnology (3 CFU per academic year)
2011- 2017	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Lecturer of “Applied Pharmacognosy”</b> in the degree course of Applied Pharmaceutical Sciences (6 CFU per academic year)
2017 - 2018	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Lectures in the advanced course “Pharmacological methodology for testing the xenobiotic biological activity”</b> - PhD in Pharmacology and Toxicology (PhD Coordinator authorization - Board resolution 5 July 2017) (1 CFU per academic year)

2018	Sapienza University – Faculty of Pharmacy and Medicine, Rome.	<b>Lectures of “Phytovigilance”</b> in the “Applied Pharmacology and Phytovigilance” exam - degree course of Applied Pharmaceutical Sciences (1 CFU)
2013-2014	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Seminars and laboratory practices of “Applied Pharmacology and Phytovigilance”</b> in the degree course of Applied Pharmaceutical Sciences
2013-2014	Secondary schools – Frosinone (Italy)	<b>Seminars of “Toxicology of psychoactive substances and smart drugs”</b>
2009-today	Sapienza University – Faculty of Pharmacy and Faculty of Pharmacy and Medicine, Rome	<b>Seminars and laboratory practices of “Pharmacognosy”</b> in the degree courses of Pharmacy, Pharmaceutical Chemistry and Technology, and Herbal Sciences and Technology
2019-today and 2011-2017	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board President</b> of “Applied Pharmacognosy” exam - degree course of Applied Pharmaceutical Sciences
2018 - today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Pharmacotoxicology of biological medicinal products and Pharmacognostic biotechnology” exam in the degree course of Pharmaceutical Biotechnology – Responsible for the “Pharmacognostic Biotechnologies” module
2015-today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Applied Pharmacology Toxicology and Pharmacognosy” exam in the degree course of Pharmaceutical Biotechnology – Responsible for the “Pharmacognosy” module
2017 - today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Pharmacognosy and Toxicology” exam in the degree course of Applied Pharmaceutical Sciences – Responsible for the “Toxicology” module
2018 - 2019	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Applied Pharmacology and Phytovigilance” exam in the degree course of Applied Pharmaceutical Sciences - Responsible for the “Phytovigilance” module
2019 - today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Pharmacovigilance and Toxicology” exam in the degree course of Applied Pharmaceutical Sciences
2013-2014	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Applied Pharmacology and Phytovigilance” exam in the degree course of Applied Pharmaceutical Sciences
2007-today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Examining Board Member</b> of “Pharmacognosy”, “Pharmacognosy and Phytotherapy” and “Pharmacologic Biotechnologies” exams in the degree courses of Pharmacy, Pharmaceutical Chemistry and Technology, Drug Scientific Informer, Herbal Sciences and Technology and Applied Pharmaceutical Sciences degree courses

2010- today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Board member</b> of the final degree exams in the degree courses of Pharmacy, Pharmaceutical Chemistry and Technology, Drug Scientific Informer, Herbal Sciences and Technology, Natural Sciences, Applied Pharmaceutical Sciences and Pharmaceutical Biotechnology.
2012- today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Co-advisor of internship and final dissertation in PhD courses.</b> List of PhD students (matriculation number) and research programs:
		318185 (PhD in Toxicology - XXVI Cycle) – Research program “Natural and naturally-derived compounds as new chemopreventive agents” - (Co-advisor – Supervisor Prof. Mazzanti G.) – Final dissertation year 2014
		310918 (PhD in Toxicology - XXXI Cycle) - Research program “Chemosensitizing properties of natural sesquiterpenes $\beta$ -caryophyllene and $\beta$ -caryophyllene oxide in liver cancer cells” - (Co-supervisor – Supervisor Prof. Mazzanti G.) – Final dissertation year 2018
		Erasmus+ Ph student (Phd in Laboratory of Biotechnology, Protection and Valorization of Plant Resources - Cadi Ayyad University Marrakech - Erasmus+ program) - Research program “Characterization of the phytochemical composition and biological activity of different extracts from the Moroccan species <i>Anacyclus maroccanus</i> Ball and <i>Anacyclus radiatus</i> Loisel” (February – July 2019) - (Co-supervisor – Supervisor Prof. Mazzanti G.)
		1475370 (PhD in Biochemistry - XXXII Cycle) - Research program “Endocrine disrupting effects of the pollutant $\beta$ -hexachlorocyclohexane in cancer cells: possible chemopreventing role of the natural sesquiterpene $\beta$ -caryophyllene” - (Co-advisor - Supervisor Prof. Eufemi M.) - Final dissertation year 2019
		1607564 (PhD in Toxicology - XXXV Cycle) - Research program “Characterization of the pharmaco-toxicological properties of natural substances and environmental pollutants by in vitro studies and molecular analysis” - (Co-supervisor – Supervisor Prof. Mazzanti G.)
2007- today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Supervisor and co-advisor of thesis internship</b> in the degree courses of Pharmacy, Pharmaceutical Chemistry and Technology, Applied Pharmaceutical Sciences, and Pharmaceutical Biotechnology
2009- today	Sapienza University – Faculty of Pharmacy and Medicine, Rome	<b>Supervisor and co-advisor of degree thesis - degree course of Pharmacy.</b> List of students (matriculation number) and theses:
		317630 - Dissertation in Pharmacognosy – Title “Ruolo delle piante medicinali nel trattamento del morbo di Alzheimer” - (Coadvisor – Supervisor Prof. Mazzanti G.) - Academic year 2009-2010
		1043002 - Experimental thesis in Pharmacognosy – Title “Studio fitochimico e attività biologica di un estratto di erisimo ( <i>Sisymbrium officinale</i> SCOP.)” - (Coadvisor – Supervisor Prof. Mazzanti G.) – Academic year 2010-2011
		1093291 - Dissertation in Pharmacognosy – Title “Silimarina: dalla pianta medicinale al farmaco” (Supervisor) – Academic year 2011-2012
		317732 - Dissertation in Pharmacognosy – Title “Piante medicinali nel controllo del peso corporeo” (Supervisor) – Academic year 2013-2014



2007-  
today

Sapienza University –  
Faculty of Pharmacy and  
Medicine, Rome

310918 - Dissertation in Pharmacognosy – Title “*Petasites hybridus* (L.) G.M. ET SCH. nel trattamento e profilassi dell'emicrania” (Supervisor) – Academic year 2013-2014

1524407 - Experimental thesis in Pharmacognosy – Title “Attività antiproliferativa di estratti delle infiorescenze di *Cannabis sativa* L. var. Felina in relazione ai costituenti terpenoidici: ipotesi meccanicistiche” - (Supervisor) – Academic year 2016-2017

1356779 - Dissertation in Pharmacognosy – Title “*Cannabis sativa* L. nel trattamento del dolore: evidenze cliniche e prospettive future” (Supervisor) – Academic year 2017-2018

578512 - Dissertation in Pharmacognosy – Title “*Oenothera biennis* L. nel trattamento di patologie infiammatorie” (Supervisor) – Academic year 2019-2020

**Supervisor, co-supervisor and co-advisor of degree thesis - degree course of Pharmaceutical Chemistry and Technology.** List of students (matriculation number) and theses:

317600 - Experimental thesis in Pharmacognosy – Title “Studi di mutagenesi su sostanze terpeniche impiegate come additivi alimentari e cosmetici” - (Co-advisor – Supervisor Prof. Mazzanti G.) – Academic year 2007-2008

310918 - Experimental thesis in Pharmacognosy – Title “Studi di mutagenesi su sostanze terpeniche” - (Co-advisor – Supervisor Prof. Mazzanti G.) – Academic year 2009-2010

317052 - Experimental thesis in Pharmacognosy – Title “Effetti protettivi di sesquiterpeni sulla genotossicità indotta da fumo di sigaretta” - (Co-advisor – Supervisor Prof. Mazzanti G.) – Academic year 2013-2014

1229443 - Experimental thesis in Pharmacognosy – Title “*Capsicum annum* L. var. “Cornetto di Pontecorvo” DOP: profilo fitochimico, attività antiossidante ed ipoglicemizzante” - (Co-supervisor – Supervisor Prof. Mazzanti G.) – Academic year 2014-2015

318531 - Experimental thesis in Pharmacognosy – Title “Valutazione della genotossicità del piperitenone ossido in modelli *in vitro* e *in silico*” - (Co-supervisor – Supervisor Prof. Mazzanti G.) – Academic year 2015-2016

1193690 - Experimental thesis in Pharmacognosy- Title “Attività chemiopreventiva di sesquiterpeni cariofillanici in cellule di epatocarcinoma” - (Co-supervisor – Supervisor Prof. Mazzanti G.) – Academic year 2015-2016

1467303 - Experimental thesis in Pharmacognosy – Title “Effetto chemiosensibilizzante del  $\beta$ -cariofillene verso la doxorubicina in cellule di colangiocarcinoma” - (Supervisor) – Academic year 2018-2019

1610395 - Experimental thesis in Pharmacognosy – Title “Studio delle proprietà citoprotettive, antivirali e immunomodulanti di una miscela di estratti di luppolo (*Humulus lupulus* L.) ed echinacea (*Echinacea purpurea* (L.) Moench)” - (Supervisor)

1719298 - Experimental thesis in Pharmacognosy – Title “Studio del profilo fitochimico e delle proprietà antiossidanti, antiglicative ed ipoglicemizzanti di estratti ottenuti dalla buccia di diverse varietà di melograno (*Punica granatum* L.)” - (Supervisor)

2010-  
2011

Sapienza University –  
Faculty of Mathematics,  
Physics and Natural Sciences,  
Rome

**Co-supervisor of one experimental thesis of Applied Pharmacognosy in the degree course of Natural Sciences.** Matriculation number 1279044 - Title “*Calamintha nepeta* (L.) Savi: profilo farmacognostico e analisi geobotanica” - (Supervisor Prof. Spada F.) – Academic year 2010-2011

2011- today	Sapienza University – Faculty of Pharmacy and Medicine, Rome.	<b>Supervisor and co-supervisor of degree thesis - degree course of Applied Pharmaceutical Sciences.</b> List of students (matriculation number) and theses:
		310918 - Experimental thesis in Pharmacognosy– Title “Melanzana rossa di Rotonda: analisi fitochimica e attività antiossidante” - (Supervisor) – Academic year 2012-2013
		1179408 - Experimental thesis in Pharmacognosy – Title “Impiego terapeutico delle tossine batteriche dermonecrotiche: studio in un modello sperimentale di malattia di Alzheimer” - (Co-supervisor – Supervisor Prof. Diana Giovanni) – Academic year 2012-2013
		1457858 - Experimental thesis in Pharmacognosy – Title “ <i>Capsicum annuum</i> L. var Cornetto di Pontecorvo DOP: studio del profilo fitochimico e dell’attività biologica in funzione del metodo di coltivazione” - (Supervisor) – Academic year 2015-2016
		1452676 - Experimental thesis in Pharmacognosy – Title “Effetto inibente di un estratto del frutto di <i>Punica granatum</i> var. Dente di cavallo sugli enzimi coinvolti nel metabolismo glucidico” - (Supervisor) – Academic year 2015-2016
		1550922 - Experimental thesis in Pharmacognosy – Title “Valutazione dei potenziali effetti mutageni dell’olio di palma mediante il test di Ames” - (Supervisor) – Academic year 2015-2016
		1601408 - Dissertation in Pharmacognosy – Title “Berberina: un potenziale agente antitumorale” - (Supervisor) – Academic year 2016-2017
		1458590 - Experimental thesis in Pharmacognosy – Title “Attività antiossidante ed antierpetica di <i>Solanum melongena</i> var. DR2” - (Supervisor) – Academic year 2016-2017
		640753 - Dissertation in Pharmacognosy – Title “ <i>Mahonia aquifolium</i> (Pursh) Nutt.: una pianta medicinale per il trattamento topico della psoriasi” - (Supervisor) – Academic year 2017-2018
		1719016 - Dissertation in Pharmacognosy – Title “ <i>Souroubea</i> spp nel trattamento dei disturbi dell’ansia degli animali da compagnia” - (Supervisor) – Academic year 2017-2018
		1695775 - Dissertation in Toxicology – Title “Rischi di teratogenesi associati all’esposizione al fumo di sigaretta” - (Supervisor) – Academic year 2017-2018
		1703074 - Dissertation in Toxicology – Title “Inquinamento ambientale e disturbi dello spettro autistico: una possibile correlazione” - (Supervisor) – Academic year 2018-2019
		1521521 - Experimental thesis in Toxicology – Title “Rischio genotossico associato all’esposizione al lindano: uno studio <i>in vitro</i> ed <i>in silico</i> ” - (Co-supervisor– Supervisor Dr. Di Giacomo S.) – Academic year 2019-2020
		1638357 - Experimental thesis in Applied Pharmacognosy – Title “Tecnologie innovative applicate alla coltivazione delle piante medicinali: la coltivazione idroponica” - (Supervisor) – Academic year 2019-2020
2011- today	Sapienza University – Faculty of Pharmacy and Medicine, Rome.	<b>Supervisor of degree thesis - degree course of Pharmaceutical Biotechnology.</b> List of students (matriculation number) and theses:
		1307811 - Experimental thesis in Pharmacognosy – Title “Effetti chemiopreventivi di $\beta$ -cariofillene e $\beta$ -cariofillene ossido verso il fumo di sigaretta” - (Supervisor) – Academic year 2014-2015
		1762691 - Experimental thesis in Pharmacognosy – Title “Studying the role of <i>Lolium perenne</i> L. as a plant bioindicator of environmental pollution in metropolitan cities of Spain” -

		(Supervisor – External supervisor Prof. José Antonio Lucas-García, University of Madrid) – Academic year 2017-2018
		1333339 - Experimental thesis in Pharmacognosy – Title “Effetto chemiosensibilizzante del colecalciferolo in combinazione con la doxorubicina in cellule di carcinoma mammario triplo negativo” - (Supervisor) – Academic year 2016-2017
		1526152 - Experimental thesis in Pharmacognosy – Title “Approccio multimetodologico allo studio del profilo fitochimico e delle proprietà biologiche di estratti di Cannabis sativa L. varietà USO31” - (Supervisor) – Academic year 2016-2017
		1676761 - Experimental thesis in Pharmacognosy – Title “ <i>Solanum lycopersicum</i> L. var. Torpedino di Fondi: profilo fitochimico e attività biologica in vitro” - (Supervisor) – Academic year 2016-2017
		1763788 - Experimental thesis in Pharmacognosy – Title “Approccio multimetodologico allo studio del profilo fitochimico e delle proprietà biologiche delle foglie di Goji ( <i>Lycium barbarum</i> L.)” - (Supervisor) – Academic year 2019-2020
2018	Tor Vergata University – School of Medicine and Surgery, Rome.	<b>Tutor of one experimental thesis in the degree course of Science of Human Nutrition – University of Tor Vergata.</b> Matriculation number 0248751 - Title “Studio dell’attività antiossidante ed ipoglicemizzante di estratti di <i>Solanum Lycopersicum</i> var. Torpedino di Fondi in relazione al contenuto di polifenoli” - (Supervisor Prof. Fezza F.) – Academic year 2017-2018
2017-today	Sapienza University – Faculty of Pharmacy and Medicine, Rome.	<b>Supervisor of research dissertations for the replacement of the internship in the degree course of Applied Pharmaceutical Sciences</b>

## Part V - Society memberships, Awards and Honors

Year	Title
Society memberships	
2020-today	Mediterranean group on natural products pharmacology - Pharmacognosy, Phytotherapy and Nutraceutical Working Group - Italian Society of Pharmacology (SIF)
2017-today	European Society of Medical Oncology (ESMO ID 550026)
2012-today	Pharmacognosy, Phytotherapy and Nutraceutical Working Group - Italian Society of Pharmacology (SIF)
2010-today	Italian Society of Pharmacology (SIF)
2008-today	Latin-Mediterranean Pharmaceutical Society (SFML)
2008-today	Italian Society of Pharmacognosy (SIPHAR)
2013	“MetabUnit-Rome” metabolomic unit – Dept. of Chemistry and Technology of Drugs – Sapienza University of Rome
Awards	
2019	Best Poster Communication Award - Monothematic meeting “THE PHARMACOLOGICAL BASIS OF NUTRACEUTICALS” organized by the Pharmacognosy, Phytotherapy and Nutraceutical working group - Italian Society of Pharmacology (SIF) – Naples, 29-30 March 2019

2019	Award as collaborator in the section “Safety della medicina complementare e alternativa” in the “Farmacovigilanza SIF” website - Italian Society of Pharmacology. Florence, 22 November 2019
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**Part VI - Funding Information [grants as PI-principal investigator or I-investigator]**

Year	Title	Program	Grant value
2020	<i>In vitro</i> studies of the antiviral and immunomodulating properties of natural products ( <b>I- Investigator</b> )	EPO S.r.l., Milan (PI Prof. Mazzanti G.)	10.000,00
2020	Chemosensitization by caryophyllane sesquiterpenes in liver, biliary and pancreatic cancer cells: the HIF-1alpha/ STAT3/Nrf2 axis as a possible target to control cell cycle progression and ABC transporter-mediated multidrug resistance ( <b>I- Investigator</b> )	Sapienza University Project – 2020 (prot. RM120172B4879A25; PI Prof. Mazzanti G.)	10.000,00
2019	Chemopreventive effect of natural dietary compounds on organochlorine pollutants-induced cancerogenesis in human prostate cancer ( <b>I- Investigator</b> )	Sapienza University Project – 2019 (prot. RP11916B8389AF1A; PI Prof. Eufemi M.)	3.000,00
2018	Hop and echinacea extracts as antiviral agents to support and prevent influenza virus infection ( <b>I- Investigator</b> )	Sapienza University Project – 2018 (prot. RP11816432CF7CF1; PI Prof. Nencioni L.)	3.000,00
2017	Funding of basic research activities ( <b>PI-Principal Investigator</b> )	MIUR - FFABR (L. 232/2016)	3.000,00
2017	Natural sesquiterpenes in the chemoprevention of biochemical and epigenetic airway changes induced by tobacco smoke exposure ( <b>PI-Principal Investigator</b> )	Sapienza University Project – 2017 (prot. RM11715C82289AFE)	8.000,00
2016	Chemopreventive effects of natural sesquiterpenes against the cigarette smoke-induced airway damage and inflammation ( <b>I- Investigator</b> )	Sapienza University Project – 2016 (prot. RM116154F1E684D3; PI Prof. Mazzanti G.)	8.500,00
2015	Evaluation of the chemopreventive effects of $\beta$ -caryophyllene in a rat model of hepatocellular carcinoma ( <b>PI-Principal Investigator</b> )	Sapienza University Project – 2015 (prot. C26A15A9XP)	8.000,00
2014	Natural sesquiterpenes as chemotherapeutic and chemosensitizing agents in liver cancer cells ( <b>PI-Principal Investigator</b> )	Sapienza University Project – 2014 (prot. C26A14MWR)	8.000,00

2014	e-ALIERB: un OPENLAB per caratterizzare e valorizzare i prodotti alimentari ed erboristici del territorio laziale ( <b>I- Investigator</b> )	FILAS project 2013 - (FILAS-RU-2014-1157; PI: Prof. Mannina L.)	249.000,00
2013	Natural substances for preventing DNA-damage by tobacco smoke ( <b>PI-Principal Investigator</b> )	Sapienza University Project – 2013 (Prot. C26A13CYA3)	7.000,00
2012	Pontecorvo Cornetto Pepper: a potential functional food ( <b>PI-Principal Investigator</b> )	Sapienza University Project – FARI 2012 (Prot. C26I12XBHJ)	6.000,00
2011	Protective effects of some terpenes against the genotoxicity of tobacco smoke ( <b>PI-Principal Investigator</b> )	Sapienza University Project – 2011 (Prot. C26A11X8YL)	3.500,00
2011	<i>Jatropha curcas</i> : fonte di energia rinnovabile e non solo - FARI 2011 ( <b>I-investigator</b> )	Sapienza University Project – FARI 2011 (PI, Dr. Vitalone A.)	6.000,00
2009	Sicurezza di impiego delle droghe vegetali: studi farmaco-tossicologici e fitosorveglianza ( <b>I-investigator</b> )	Sapienza University Project (Prot. C26F093JYJ; PI, Prof. Mazzanti G.)	8.000,00
2008	Studio <i>in vitro</i> degli effetti epatotossici di piante officinali ( <b>I-investigator</b> )	Sapienza University Project (Prot. C26F08HSJS; PI, Dr. Vitalone A.)	5.000,00
2007-2008	Studi tossicologici su preparati a base di piante medicinali e loro componenti, con particolare riguardo agli effetti epatotossici ( <b>I-investigator</b> )	Sapienza University Project (Prot. C26A0787YR e Prot. C26A083EBS; PI, Prof. Mazzanti G.)	16.000,00
2008	Epigenetic modulators and obesity resistance: from in vitro screening to animal model testing ( <b>I-investigator</b> )	PRIN 2007 (Prot. 2007R2WFBZ; PI, Prof. Gaetani S.)	158.000,00
2005	Proprietà farmacologiche e sicurezza d'impiego di preparati a base di piante officinali e loro costituenti ( <b>I-investigator</b> )	Sapienza University Project (Prot. C26A054939; PI, Prof. Mazzanti G.)	27.000,00

## Part VII – Research Activities

### Keywords

### Brief Description

Natural substances
Medicinal plants
Nutraceuticals
Chemoprevention
DNA-damage
Oxidative stress
Chemosensitizing agents
Environmental pollutants
Caryophyllane sesquiterpenes
STAT3

Dr. Di Sotto has carried out basic research in pharmacology and toxicology of natural substances and herbal products. In this context, the major studies addressed the chemopreventive properties of natural compounds, especially terpenes, flavonoids and glucosinolates, and the mechanisms involved. The ability of such substances to prevent the DNA-damage of different environmental pollutants, pesticides and drugs, and to counteract chemoresistance has been explored in different *in vitro* models, obtaining encouraging results.

Particularly, during the PhD in Toxicology and the Post-Doc research studies, especially those carried out as Research fellow (RTD and RTDA), she deeply focused her research activity on the study of caryophyllane sesquiterpenes as possible chemopreventive agents, highlighting a remarkable genoprotective and cytoprotective potential towards toxicants, cigarette smoke and butts, drugs and pesticides, and promising chemosensitizing properties in cancer cell models in combination with anticancer drugs, thus suggesting a further interest in cancer research. The modulation of specific cellular targets, such as membrane permeability, transporters, and endocannabinoid system, along with the modulation of key signalings involved in cancer cell proliferation, cell cycle regulation and aggressiveness (i.e. STAT3, H2AX, GSH, NrF2), have been studied as possible mechanisms of action of caryophyllane sesquiterpenes.

A further research topic addressed by Dr. Di Sotto is the phytochemical and biological characterization of medicinal and edible plants. In this context, she carried out pharmacological studies on medicinal plant extracts, in order to give scientific basis to their traditional use. Moreover, she explored the functional properties of some vegetables, such as pepper, tomato and celery, especially as regulators of carbohydrate metabolism and as antioxidant agents; food waste, such as pomegranate and aubergine peel, and goji leaves, as innovative sources of bioactive substances of nutraceutical interest were evaluated too.

At last, the toxicity profile of chemicals, herbal supplements and natural compounds were investigated. Particularly, she studied the genotoxicity of environmental pollutants, among which cigarette smoke and butts, and pesticides, cosmetic and/or food additives (mainly natural or naturally-derived compounds) and the possible adverse hepatic effects of some dietary supplements. Regarding pesticides, in the last years she started a collaboration aimed at characterizing the toxicity profile of lindane, especially as endocrine disruptor and inducer of chemoresistance, in order to identify possible environmental decontamination and chemopreventive strategies through the use of natural substances.

This activity is confirmed by the scientific publications in peer reviewed journals and by the abstracts of national and international conferences.

To perform these studies, she takes advantages of multidisciplinary intra and interuniversity collaborations and company partnerships, such as IDROLUPPOLO startup, Vanda Omeopatici Srl and EPO Srl and obtained different financial grants, mainly by Sapienza University.

## Part VIII – Summary of Scientific Achievements

(ORCID 0000-0002-7467-1689)

Product type	Number	Data Base	Start	End
Papers [international]	54	Scopus (Web of Science for one paper)	2007	today
Books [teaching]	1 (four chapters in the book)		2013	today
	1 (translation from English of ten chapters)			
Abstracts of national and international congresses	65		2006	today
Published Abstracts in volumes with ISBN and Journal	11		2010	today
Communications to congresses	25		2006	today

Total Impact Factor	183.57
Average Impact factor per product	3.45
Total Impact factor in the last ten years	166.87
Total Citations (Scopus)	835
Average Citations per Product	15.46
Hirsch (H) index (Scopus)	17
Normalized H index*	1.08
<i>Scientific contribution to papers</i>	<i>Number of papers</i>
First Author	24
Last Author	5
Corresponding Author	23

\*H index divided by the academic seniority (15.7 academic seniority, calculated as the time span from the University Graduation, considering five months of maternity leave).

## Part IX– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations (Source: Scopus; Web of Science for publication 18), press/media release (if any). \* *corresponding author*

1. Inhibition by beta-caryophyllene of ethyl methanesulfonate-induced clastogenicity in cultured human lymphocytes.  
**Di Sotto A.**, Mazzanti G., Carbone F., Hrelia P., Maffei F., Mazzanti G.  
Mutation Research - Genetic Toxicology and Environmental Mutagenesis 2010 Jun 17;699(1-2):23-8. doi: 10.1016/j.mrgentox.2010.04.008.  
IF<sub>2010</sub> 2.938  
Citations 65
2. Genotoxicity of lavender oil, linalyl acetate and linalool on human lymphocytes *in vitro*.  
**Di Sotto A.**, Mazzanti G., Carbone F., Hrelia P., Maffei F.  
Environmental and Molecular Mutagenesis 2011 Jan;52(1):69-71. doi: 10.1002/em.20587.  
IF<sub>2011</sub> 3.709  
Citations 27
3. Antimutagenic thio compounds from *Sisymbrium officinale*.  
**Di Sotto A.\***, Di Giacomo S., Vitalone A., Nicoletti M., Mazzanti G.  
Journal of Natural Products 2012 Jul 27;75(7):1294-8. doi: 10.1021/np3001893.  
IF<sub>2012</sub> 3.285  
Citations 13
4.  $\alpha$ -Hexylcinnamaldehyde inhibits the genotoxicity of environmental pollutants in the bacterial reverse mutation assay.  
Di Giacomo S., Mazzanti G., Sarpietro M.G., **Di Sotto A.\***  
Journal of Natural Products 2014 Dec 26;77(12):2664-70. doi: 10.1021/np500567d.  
IF<sub>2014</sub> 3.798  
Citations 6
5. *Sisymbrium officinale* (L.) Scop. and its polyphenolic fractions inhibit the mutagenicity of tert-butylhydroperoxide in *Escherichia coli* WP2uvrAR strain.  
**Di Sotto A.\***, Di Giacomo S., Toniolo C., Nicoletti M., Mazzanti G.  
Phytotherapy Research 2016 May;30(5):829-34. doi: 10.1002/ptr.5588.  
IF<sub>2016</sub> 3.092  
Citations 11
6. Mutagenicity of cigarette butt waste in the bacterial reverse mutation assay: the protective effects of  $\beta$ -caryophyllene and  $\beta$ -caryophyllene oxide.  
Di Giacomo S., Mazzanti G., **Di Sotto A.\***  
Environmental Toxicology 2016 Nov;31(11):1319-1328. doi: 10.1002/tox.22136.  
IF<sub>2016</sub> 2.937  
Citations 17
7. Phytochemical analysis and effects on ingestive behaviour of a *Caralluma fimbriata* extract.  
Vitalone A., **Di Sotto A.\***, Mammola C.L., Heyn R., Miglietta S., Mariani P., Sciubba F., Passarelli F., Nativio P., Mazzanti G.  
Food and Chemical Toxicology 2017 Oct;108(Pt A):63-73. doi: 10.1016/j.fct.2017.07.027.  
IF<sub>2017</sub> 3.977  
Citations 5
8. Genotoxicity assessment of piperitenone oxide: An *in vitro* and *in silico* evaluation.  
**Di Sotto A.\***, Di Giacomo S., Abete L., Božovic M., Parisi O.A., Barile F., Vitalone A., Izzo A.A., Ragno R., Mazzanti G.  
Food and Chemical Toxicology 2017 Aug;106(Pt A):506-513. doi: 10.1016/j.fct.2017.06.021.  
IF<sub>2017</sub> 3.977  
Citations 8



9. Caryophyllane sesquiterpenes inhibit DNA-damage by tobacco smoke in bacterial and mammalian cells. Di Giacomo S., Abete L., Cocchiola R., Mazzanti G., Eufemi M., **Di Sotto A.\***  
Food and Chemical Toxicology 2018 Jan;111:393-404. doi: 10.1016/j.fct.2017.11.018.  
IF<sub>2018</sub> 3.977  
Citations 11
10. *Capsicum annuum* L. var. Cornetto di Pontecorvo PDO: polyphenolic profile and in vitro biological activities.  
**Di Sotto A.\***, Abete L., Toniolo C., Mannina L., Locatelli M., Giusti A.M., Nicoletti M., Vecchiato M., Di Giacomo S.  
Journal of Functional Foods 2018 Jan;40:679–691. doi: 10.1016/j.jff.2017.11.041.  
IF<sub>2018</sub> 3.197  
Citations 17
11. A multi-methodological approach in the study of two different cultivations of Italian red sweet pepper (*Capsicum annuum* L.) var. Cornetto di Pontecorvo.  
Sobolev A.P., Mannina L., Sanzò G., Fornarini S., Carradori S., Locatelli M., Giusti A.M., Simonetti G., Vinci G., Preti R., Abete L., **Di Sotto A.**  
Food Chemistry 2018 Jul;255: 120–131. doi: 10.1016/j.foodchem.2018.02.050.  
IF<sub>2018</sub> 5.399  
Citations 21
12. Antiviral and antioxidant activity of a hydroalcoholic extract from *Humulus lupulus* L.  
**Di Sotto A.\***, Checconi P., Celestino I., Locatelli M., Carissimi S., De Angelis M., Rossi V., Limongi D., Toniolo C., Martinoli L., Di Giacomo S., Palamara A.T., Nencioni L.  
Oxidative Medicine and Cellular Longevity 2018 Jul 24;2018:5919237. doi: 10.1155/2018/5919237.  
IF<sub>2018</sub> 4.868  
Citations 11
13. A polyphenol rich extract from *Solanum melongena* L. DR2 peel exhibits antioxidant properties and anti-herpes simplex virus type 1 activity *in vitro*.  
**Di Sotto A.\***, Di Giacomo S., Amatore D., Locatelli M., Vitalone A., Toniolo C., Rotino G.L., Lo Scalzo R., Palamara A.T., Marcocci M.E., Nencioni L.  
Molecules 2018 Aug 17;23(8):2066. doi: 10.3390/molecules23082066.  
IF<sub>2018</sub> 3.060  
Citations 21
14. SPC liposomes as possible delivery systems for improving bioavailability of the natural sesquiterpene  $\beta$ -caryophyllene: lamellarity and drug-loading as key features for a rational drug delivery design.  
**Di Sotto A.\***, Paolicelli P., Nardoni M., Abete L., Garzoli S., Di Giacomo S., Mazzanti G., Casadei M.A., Petralito S.  
Pharmaceutics 2018 Dec 13;10(4):274. doi: 10.3390/pharmaceutics10040274.  
IF<sub>2017</sub> 4.773  
Citations 9
15. Chemosensitization of hepatocellular carcinoma cells to sorafenib by  $\beta$ -caryophyllene oxide-induced inhibition of ABC export pumps.  
Di Giacomo S., Briz O., Monte M.J., Sanchez-Vicente L., Abete L., Lozano E., Mazzanti G., **Di Sotto A.**, Marin J.J.G.  
Archives of Toxicology 2019 Mar;93(3):623-634. doi: 10.1007/s00204-019-02395-9.  
IF<sub>2019</sub> 5.059  
Citations 13
16. Hypoglycemic, antiglycation, and cytoprotective properties of a phenol-rich extract from waste peel of *Punica granatum* L. var. Dente di Cavallo DC2.  
**Di Sotto A.\***, Locatelli M., Macone A., Toniolo C., Cesa S., Carradori S., Eufemi M., Mazzanti G., Di Giacomo S.  
Molecules 2019 Aug 27;24(17):3103. doi: 10.3390/molecules24173103.  
IF<sub>2019</sub> 3.267  
Citations 4

17. Potentiation of low-dose doxorubicin cytotoxicity by affecting p-glycoprotein through caryophyllane sesquiterpenes in HepG2 cells: an *in vitro* and *in silico* study.  
**Di Sotto A.\***, Irannejad H., Eufemi M., Mancinelli R., Abete L., Mammola C.L., Altieri F., Mazzanti G., Di Giacomo S.  
 International Journal of Molecular Sciences 2020 Jan 17;21(2):633. doi: 10.3390/ijms21020633.  
 IF<sub>2019</sub> 4.556  
 Citations 3
  
18. Modulation of STAT3 signaling, cell redox defenses and cell cycle checkpoints by  $\beta$ -caryophyllene in cholangiocarcinoma cells: possible mechanisms accounting for doxorubicin chemosensitization and chemoprevention.  
**Di Sotto A.\***, Di Giacomo S., Rubini E., Macone A., Gulli M., Mammola C.L., Eufemi M., Mancinelli R., Mazzanti G.  
 Cells 2020 Apr 2;9(4):858. doi: 10.3390/cells9040858.  
 IF<sub>2019</sub> 4.366  
 Citations 3
  
19. Antiarthritic effects of a root extract from *Harpagophytum procumbens* DC: novel insights into the molecular mechanisms and possible bioactive phytochemicals.  
 Mariano A., **Di Sotto A.**, Leopizzi M., Garzoli S., Di Maio V., Gulli M., Dalla Vedova P., Ammendola S., Scotto d'Abusco A.  
 Nutrients 2020 Aug 23;12(9):2545. doi: 10.3390/nu12092545.  
 IF<sub>2019</sub> 4.546  
 Citations 1
  
20. Chemopreventive potential of caryophyllane sesquiterpenes: an overview of preliminary evidence.  
**Di Sotto A.\***, Mancinelli R., Gulli M., Eufemi M., Mammola C.L., Mazzanti G., Di Giacomo S.  
 Cancers (Basel) 2020 Oct 18;12(10):3034. doi: 10.3390/cancers12103034.  
 IF<sub>2019</sub> 6.126  
 Citations 0

#### Summary of Scientific Achievements in the selected publications

Selected publications	20
Total Impact factor	80.91
Average Impact factor per Product	4.04
Total Citations	266
Average Citations per Product	13.3
<i>Scientific contribution to papers</i>	<i>Number of papers</i>
First Author	13
Last Author	4
Corresponding Author	15

#### Part X - COMPLETE LIST OF SCIENTIFIC PUBLICATIONS (\* corresponding author)

1. Mazzanti G., **Di Sotto A.**, Daniele C., Battinelli L., Brambilla G., Fiori M., Loizzo S., Loizzo A. A pharmacodynamic study on clenbuterol-induced toxicity: beta1- and beta2-adrenoceptors involvement in guinea-pig tachycardia in an *in vitro* model. Food and Chemical Toxicology 2007 Sep;45(9):1694-9. doi: 10.1016/j.fct.2007.03.002. IF<sub>2007</sub> 2.186 (Citations 29)
  
2. Mazzanti G., **Di Sotto A.**, Franchitto A., Mastrangelo S., Pezzella M., Vitalone A., Mammola C.L. Effects of *Cimicifuga racemosa* extract on liver morphology and hepatic function indices. Phytomedicine 2008 Nov;15(11):1021-4. doi: 10.1016/j.phymed.2008.02.023. IF<sub>2008</sub> 2.330 (Citations 13)

3. **Di Sotto A.**, Evandri M.G., Mazzanti G. Antimutagenic and mutagenic activities of some terpenes in the bacterial reverse mutation assay. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis* 2008 May 31;653(1-2):130-3. doi: 10.1016/j.mrgentox.2008.04.004. IF<sub>2008</sub> 2.363 (Citations 64)
4. Chiaretti M., Mazzanti G., Bosco S., Bellucci S., Cucina A., Le Foche F., Carru G.A., Mastrangelo S., **Di Sotto A.**, Masciangelo R., Chiaretti A.M., Balasubramanian C., De Bellis G., Micciulla F., Porta N., G. Deriu, Tiberia A. Carbon nanotubes toxicology and effects on metabolism and immunological modification *in vitro* and *in vivo*. *Journal of Physics: Condensed Matter* 2008 Nov;20(47):474203. doi: 10.1088/0953-8984/20/47/474203. IF<sub>2008</sub> 1.900 (Citations 23)
5. **Di Sotto A.**, Chiaretti M., Carru A., Bellucci S., Mazzanti G. Multi-Walled Carbon Nanotubes: lack of mutagenic activity in the bacterial reverse mutation assay. *Toxicology Letters* 2009 Feb 10;184(3):192-7. doi: 10.1016/j.toxlet.2008.11.007. IF<sub>2009</sub> 3.479 (Citations 89)
6. **Di Sotto A.**, Mastrangelo S., Romussi G., Bisio A., Mazzanti G. Antimutagenic activity of a secoisopimarane diterpenoid from *Salvia cinnabarina* M. Martens et Galeotti in the bacterial reverse mutation assay. *Food and Chemical Toxicology* 2009 Aug;47(8):2092-6. doi: 10.1016/j.fct.2009.05.030. IF<sub>2009</sub> 2.114 (Citations 10)
7. Mazzanti G., **Di Sotto A.**, Franchitto A., Mammola C.L., Mariani P., Mastrangelo S., Menniti-Ippolito F., Vitalone A. *Chelidonium majus* is not hepatotoxic in Wistar rats, in a 4 weeks feeding experiment. *Journal of Ethnopharmacology* 2009 Dec 10;126(3):518-24. doi: 10.1016/j.jep.2009.09.004. IF<sub>2009</sub> 2.322 (Citations 30)
8. **Di Sotto A.**, Vitalone A., Nicoletti M, Piccin A, Mazzanti G. Pharmacological and phytochemical study on a *Sisymbrium officinale* Scop. extract. *Journal of Ethnopharmacology* 2010 Feb 17;127(3):731-6. doi: 10.1016/j.jep.2009.12.001. IF<sub>2010</sub> 2.466 (Citations 16)
9. **Di Sotto A.**, Mazzanti G., Carbone F., Hrelia P., Maffei F., Mazzanti G. Inhibition by beta-caryophyllene of ethyl methanesulfonate-induced clastogenicity in cultured human lymphocytes. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis* 2010 Jun 17;699(1-2):23-8. doi: 10.1016/j.mrgentox.2010.04.008. IF<sub>2010</sub> 2.938 (Citations 65)
10. **Di Sotto A.**, Mazzanti G., Carbone F., Hrelia P., Maffei F. Genotoxicity of lavender oil, linalyl acetate and linalool on human lymphocytes *in vitro*. *Environmental and Molecular Mutagenesis* 2011 Jan;52(1):69-71. doi: 10.1002/em.20587. IF<sub>2011</sub> 3.709 (Citations 27)
11. Vitalone A., Di Giacomo S., **Di Sotto A.**, Franchitto A., Mammola C.L., Mariani P., Mastrangelo S., Mazzanti G. *Cassia angustifolia* extract is not hepatotoxic in an *in vitro* and *in vivo* study. *Pharmacology* 2011;88(5-6):252-9. doi: 10.1159/000331858. IF<sub>2011</sub> 1.788 (Citations 12)
12. **Di Sotto A.**, Carbone F., Hrelia P., Maffei F., Castelli F., Sarpietro M.G., Mazzanti G. Anticlastogenic effect in human lymphocytes by the sodium salt of 3,4-secoisopimar-4(18),7,15-trien-3-oic acid. *Journal of Natural Products* 2012 Jul 27;75(7):1294-8. doi: 10.1021/np3001893. IF<sub>2012</sub> 3.285 (Citations 6)
13. **Di Sotto A.\***, Di Giacomo S., Vitalone A., Nicoletti M., Mazzanti G. Antimutagenic thio compounds from *Sisymbrium officinale*. *Journal of Natural Products* 2012 Dec 28;75(12):2062-8. doi: 10.1021/np300244q. IF<sub>2012</sub> 3.285 (Citations 13)
14. Sarpietro M.G., Ottimo S., Accolla M.L., **Di Sotto A.**, Castelli F. DSC evidence of the interaction and absorption of 3,4-Secoisopimar-4(18),7,15-trien-3-oic acid by biomembrane model. *Thermochimica Acta* 2012 Dec;549:166-171. doi: 10.1016/j.tca.2012.09.032. IF<sub>2012</sub> 1.989 (Citations 2)
15. Mazzanti G., **Di Sotto A.**, Di Giacomo S., Durazzi F., Mariani P., Nicoletti M., Mammola C.L., Vitalone A. *Chelidonium majus* L. does not potentiate the hepatic effect of acetaminophen. *Experimental and Toxicological Pathology* 2013 Nov;65(7-8):1117-20. doi: 10.1016/j.etp.2013.05.002. IF<sub>2013</sub> 2.005 (Citations 5)
16. **Di Sotto A.\***, Maffei F., Hrelia P., Castelli F., Sarpietro M.G., Mazzanti G. Genotoxicity assessment of  $\beta$ -caryophyllene oxide. *Regulatory Toxicology and Pharmacology* 2013 Aug;66(3):264-8. doi: 10.1016/j.yrtph.2013.04.006. IF<sub>2013</sub> 2.142 (Citations 27)

17. **Di Sotto A.\***, Durazzi F., M.G. Sarpietro, Mazzanti G. Antimutagenic and antioxidant activities of some bioflavours from wine. *Food and Chemical Toxicology* 2013 Oct;60:141-6. doi: 10.1016/j.fct.2013.07.042. IF<sub>2013</sub> 2.610 (Citations 12)
18. **Di Sotto A.\***, Maffei F., Hrelia P., Di Giacomo S., Pagano E., Borrelli F., Mazzanti G. Genotoxicity assessment of some cosmetic and food additives. *Regulatory Toxicology and Pharmacology* 2014 Feb;68(1):16-22. doi: 10.1016/j.yrtph.2013.11.003. IF<sub>2013</sub> 2.031 (Citations 21)
19. Tomassini A., Vitalone A., Marini F., Praticò G., Sciubba F., Bevilacqua M., Delfini M., **Di Sotto A.**, Di Giacomo S., Mariani P., Mammola C.L., Gaudio E., Miccheli A., Mazzanti G. 1H NMR-based urinary metabolic profiling reveals changes in nicotinamide pathway intermediates due to postnatal stress model in rat. *Journal of Proteome Research* 2014 Dec 5;13(12):5848-59. doi: 10.1021/pr500748r. IF<sub>2014</sub> 4.245 (Citations 9)
20. Di Giacomo S., Mazzanti G., Sarpietro M.G., **Di Sotto A.\***  $\alpha$ -Hexylcinnamaldehyde Inhibits the Genotoxicity of Environmental Pollutants in the Bacterial Reverse Mutation Assay. *Journal of Natural Products* 2014 Dec 26;77(12):2664-70. doi: 10.1021/np500567d. IF<sub>2014</sub> 3.798 (Citations 6)
21. Sarpietro M.G., **Di Sotto A.**, Accolla M.L., Castelli F. Differential Scanning Calorimetry Study on the Interaction of  $\beta$ -Caryophyllene and  $\beta$ -Caryophyllene Oxide with Phospholipid Bilayers. *Thermochimica Acta* 2015 Jan 20;600:28-34. doi: 10.1016/j.tca.2014.11.029. IF<sub>2015</sub> 1.938 (Citations 24)
22. **Di Sotto A.\***, Mazzanti G., Savickiene N., Staršelskytė R., Baksenskaite V., Di Giacomo S., Vitalone A. Antimutagenic and antioxidant activity of a protein fraction from aerial parts of *Urtica dioica*. *Pharmaceutical Biology* 2015 Jun;53(6):935-8. doi: 10.3109/13880209.2014.950386. IF<sub>2015</sub> 1.546 (Citations 9)
23. Sarpietro M.G., **Di Sotto A.**, Accolla M.L., Castelli F. Interaction of  $\alpha$ -Hexylcinnamaldehyde with a Biomembrane Model: a Possible MDR Reversal Mechanism. *Journal of Natural Products* 2015 May 22;78(5):1154-9. doi: 10.1021/acs.jnatprod.5b00152. IF<sub>2015</sub> 3.662 (Citations 2)
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## Part XI – BOOKS

Author of chapters in Books and translation of English books.

1. Mazzanti G., Dell'Agli M., Izzo A.A. *Farmacognosia e Fitoterapia: basi scientifiche e aspetti applicativi*. Editore Piccin – July 2020. Author of the following chapters: chapter 4. Controllo di qualità delle droghe vegetali, chapter 13.2 Dispepsia, chapter 14.1 Epatoprotettori and chapter 19. Galattogeni.
2. Heinrich M., Barnes J., Gibbons S. *Fundamentals of Pharmacognosy and Phytotherapy*, 2nd Ed, 2012. In the Italian Edition “*Fondamenti di Farmacognosia e Fitoterapia*” by Galeotti N., Mazzanti G., Serafini M. Ed. EDRA LSWR SpA. Milano - January 2015, translation of the following chapters: 9. Produzione, standardizzazione e controllo di qualità; 10. Tossicità dei componenti chimici di prodotti vegetali; 11. Cosa rende unici i preparati vegetali?; 12. Sistemi tradizionali di medicina erboristica; 13. Medicina complementare e alternativa; 14. Apparato gastrointestinale e biliare; 15. Sistema cardiovascolare; 16. Apparato respiratorio; 17. Sistema nervoso centrale.

## Part XII - Oral and posters presentations at national and international conferences and meetings of pharmacology, pharmacognosy and nutraceuticals

1. **Di Sotto A.** Rischio farmaco-tossicologico di sostanze  $\beta$ -adrenergiche veicolate dall'alimento di origine animale. Study Day organized by “Enrico and Enrica Sovena Foundation” and “Accademia Lancisiana”. Rome, 9 November 2006 (Oral presentation)
2. **Di Sotto A.**, Carbone F., Maffei F., Hrelia P., Mazzanti G. Valutazione dell'attività antimutagenica del  $\beta$ -cariofillene mediante il test di Ames e l'analisi dei micronuclei in linfociti di sangue periferico. Fitomed2008 - III Intersociety Conference (SIF, SIPHAR, SBI e SISE) on medicinal plants. Salerno, 25-27 June 2008 (Oral presentation)
3. **Di Sotto A.** Antimutagenicity of  $\beta$ -caryophyllene in Ames test and micronucleus assay on cultured human lymphocytes. XII SIF Seminar on Pharmacology and similar sciences for PhD Student. Siena, Certosa di Pontignano (Italy), 22-25 September 2008 (Oral presentation)
4. **Di Sotto A.**, Carbone F., Maffei F., Hrelia P., Mazzanti G. Antimutagenicity of a secoisopimarane diterpenoid from *Salvia cinnabarina* M. Martens et Galeotti in Ames test and micronucleus assay on cultured human lymphocytes. 34th National Congress of the Italian Society of Pharmacology – “Il valore del farmaco per la tutela della salute”. Rimini (Italy), 14-17 October 2009 (Poster presentation)
5. **Di Sotto A.**, Carbone F., Maffei F., Hrelia P., Mazzanti G. Effetto inibente dell'acido 3,4-secoisopimarano-4(18),7,15-trien-3-olo sull'attività clastogena dell'etilmetansulfonato in colture di linfociti umani. Fitomed2010 - IV Intersociety Conference (SIF, SIPHAR, SBI e SISE) on medicinal plants. Salerno (Italy), 23-26 June 2010. Abstract published in ABSTRACTS, MILANO, GVEDizioni - Natural 1, 2010, p. 61 (Poster presentation)
6. **Di Sotto A.** Attività chemiopreventiva di glucosinolati e isotiocianati. XXX International Congress of Latin Mediterranean Pharmaceutical Society. Rome, 19-22 September 2012 (required languages: French, Italian and Spanish). (Oral presentation)
7. **Di Sotto A.**, Di Giacomo S., Piccin A., Nicoletti M., Mazzanti G. Attività antiossidante delle frazioni polifenoliche di *Sisymbrium officinale* Scop. XXX International Congress of Latin Mediterranean Pharmaceutical Society. Rome, 19-22 September 2012 (required languages: French, Italian and Spanish) (Poster presentation)
8. **Di Sotto A.**, Di Giacomo S., Mazzanti G. Sicurezza di impiego di additivi alimentari e cosmetici in studi in vitro di genotossicità. XXX International Congress of Latin Mediterranean Pharmaceutical Society. Rome, 19-22 September 2012 (required languages: French, Italian and Spanish) (Poster presentation)
9. **Di Sotto A.**, Di Giacomo S., Cocchiola R., Eufemi M., Mazzanti G. Natural sesquiterpenes inhibit DNA-damage by tobacco smoke. 36th National Congress of the Italian Society of Pharmacology “Il ruolo della ricerca farmacologica per la crescita e la salute in Italia”. Turin (Italy), 25 October 2013 (Poster presentation)
10. **Di Sotto A.**, Toniolo C., Di Giacomo S., Vitalone A., Mazzanti G., Nicoletti M. Polyphenolic content, antioxidant properties and amylase inhibition by *Capsicum annuum* L. var. “Cornetto di Pontecorvo DOP”. Monothematic meeting “SIF -FARMACOGNOSIA: nuove opportunità terapeutiche dal mondo vegetale” – Working Group of Pharmacognosy - Italian Society of Pharmacology. Naples (Italy), 20-21 June 2014 (Poster presentation)

11. **Di Sotto A.** Cornetto di Pontecorvo PDO pepper: phytochemical profile, antioxidant and hypoglycemic properties – Ciociaria Cuore Workshop “Mangiare di cuore: nutrire in prevenzione” - EXPO2015. Milan (Italy), 28 October 2015 (Invited presentation)
12. **Di Sotto A.,** Di Giacomo S., Cocchiola R., Eufemi M., Mazzanti G.  $\beta$ -Caryophellene inhibits DNA-damage induced by tobacco smoke in mammalian cells. 37th National Congress of the Italian Society of Pharmacology “I nuovi orizzonti della ricerca farmacologica: tra etica e scienza”. Naples (Italy), 29 October 2015 (Poster presentation)
13. **Di Sotto A.** *Lavandula angustifolia* L. essential oil: a potential source of chemopreventive agents. Study Day - “Qualità degli estratti vegetali in fitoterapia – Sinergie tra Università ed Aziende”. Working Group of Pharmacognosy - Italian Society of Pharmacology. Florence (Italy), 26 February 2016 (Invited presentation)
14. **Di Sotto A.** Identificazione di nuove molecole di origine naturale ad azione chemiopreventiva. Simposio in onore del Prof. Dario Piccinelli e della Fondazione “Enrico ed Enrica Sovena”. Rome (Italy), 6 May 2016 (Oral presentation)
15. **Di Sotto A.** Proprietà chemiopreventive di *Sisymbrium officinale* L. e dei suoi composti solforati. Workshop “Brassicaceae: odore pungente e proprietà salutistiche dalla coltivazione alla tavola dalla chimica agli usi popolari e terapeutici” – Phytochemistry School “P. Ceccherelli”. Italian Society of Phytochemistry – University of Modena e Reggio Emilia, Modena (Italy), 10-11 June 2016 (Invited presentation)
16. **Di Sotto A.** Potenziali effetti genotossici degli oli essenziali. Workshop “Essenze aromatiche: vizi e virtù del loro uso in terapia”. Italian Society of Phytochemistry – University of Bari, Bari (Italy), 14 October 2016 (Oral presentation)
17. **Di Sotto A.,** Celestino I., Toniolo C., Abete L., Di Giacomo S., Nicoletti M., Mazzanti G., Nencioni L. Antiviral and antioxidant activity of a hydroalcoholic extract from *Humulus lupulus* L. 38th National Congress of the Italian Society of Pharmacology “Farmaci, salute e qualità della vita”. Rimini (Italy) – 25-27 October 2017 (Poster presentation)
18. **Di Sotto A.,** Romaniello D., Freddoni G., Abete L., Cocchiola R., Di Giacomo S., Altieri F., Mazzanti G., Eufemi M. New insights in the antitumor effects of  $\beta$ -caryophyllene in breast cancer cells: The role of cannabinoid and adrenergic systems. TAT2018 – International Congress of Targeted Anticancer Therapies. Paris, France, 5-7 March 2018. Abstract published in *Annals of Oncology* (ISSN 1569-8041) 2018, 29 (3), mdy047.042 (Invited presentation)
19. **Di Sotto A.** Nutraceutici e Chemioprevenzione. Workshop “Nutraceutici ed Alimenti Funzionali”. University “G. D’Annunzio” of Chieti (Italy), Chieti, 9 March 2018 (Oral presentation)
20. **Di Sotto A.** *Capsicum annuum* var. Cornetto di Pontecorvo DOP: caratterizzazione delle proprietà fitochimiche e funzionali e ruolo dei processi di coltivazione nella conservazione della biodiversità. Scientific Day “La Sapienza per valorizzare gli alimenti del territorio laziale” organized at the end of “e-ALIERB: un OPENLAB per la caratterizzazione e la valorizzazione dei prodotti alimentari ed erboristici del territorio laziale” Project (Protocol FILAS-RU-2014-1157) - Sapienza University of Rome (Italy), 13 April 2018 (Oral presentation)
21. **Di Sotto A.,** Ingallina C., Frascchetti C., Circi S., Locatelli M., Carradori S., Mazzanti G., Mannina L., Di Giacomo S. Chemopreventive Properties of *Cannabis sativa* L. var. USO31 in Relation to its Phenolic and Terpenoid Content. ICMPPNP 2018: 20th International Conference on Medicinal Plants, Pharmacognosy, Phytochemistry and Natural Products. Rome (Italy), October 30 - 31, 2018 (Invited presentation)
22. **Di Sotto A.,** Carradori S., Locatelli M., Ingallina C., Mannina L., Toniolo C., Vitalone A., Giusti A.M., Di Giacomo S. Studying the chemopreventive properties of inflorescences from industrial hemp variety Felina 32 in relation to the phenolic and terpenoid composition. Monothematic meeting “The pharmacological basis of nutraceuticals”. Working Group of the Pharmacognosy, Phytotherapy and Nutraceutical - Italian Society of Pharmacology (SIF). Naples (Italy), 29-30 March 2019 (Poster presentation)
23. **Di Sotto A.** Antiproliferative activity of the lipophilic extracts from the inflorescences of *Cannabis sativa* L. var. Felina: the possible role of terpenoids and sesquiterpenes. New Horizons in Cannabis Research: Medical and Food Applications, Cannabeta - International Medical Cannabis Talks. Rome (Italy), 6 May 2019 (Invited presentation)
24. **Di Sotto A.,** Frascchetti C., Locatelli M., Freddoni G., Filippi A., Carradori S., Ingallina C., Mannina L., Mazzanti G., Di Giacomo S. Evaluation of the phytochemical composition and biological activities of the



ethanolic extracts from “Bianco di Sperlonga” PGI celery ecotype: a multimethodological study – 39th National Congress of the Italian Society of Pharmacology “Ricerca Innovazione Sostenibilità Appropriata Formazione”. Florence (Italy), 21 November 2019 (Poster presentation)

25. **Di Sotto A.** Pharmacological basis of cannabis use in cancer” – Canapa Webinar “La canapa industriale: sviluppo e valorizzazione di una nuova filiera agroalimentare ecosostenibile”. Online Meeting, 22 September 2020 (Oral presentation)

## **Part XIV –National and international ongoing collaborations**

### *Interuniversity collaborations*

- **Iran** - Mazandaran University of Medical Sciences of Sari (Prof. Irannejad H.)
- **Lithuania** - Dept. of Pharmacognosy - Medical Academy of Lithuanian University of Health Sciences of Kaunas (Prof. Savickiene N.)
- **Czech Republic** - Dept. of Pharmacology and Toxicology, Charles University of Hradec Králové (Prof. Mladěnka P.)
- **Montenegro** - Faculty of Natural Sciences and Mathematics - University of Montenegro (Dr. Bozovic M.)
- **Morocco** - Dept. of Biology, Faculty of Sciences, Cadi Ayyad University of Marrakesh (Prof. Markouk M., Dr. Sissi S.)
- **Italy** - Dept. of Pharmacology - University of Bologna, Bologna (Prof. Hrelia, Prof. Maffei F.)
- **Italy** - Dept. of Pharmacy - University “G. D’Annunzio” of Chieti-Pescara, Chieti (Prof. Carradori S., Prof. Grande R.)
- **Italy** - Dept. of Drug Sciences – University of Catania (Prof. Sarpietro M.G.)
- **Italy** - Dept. of Pharmacology – University of Naples (Prof. Borrelli F.)
- **Italy** - Sapienza University of Rome
  - Dept. of Public Health and Infectious Diseases (Prof. Nencioni S.)
  - Dept. of Anatomical, Histological, Forensic and Orthopedic Sciences (Prof. Mancinelli R., Prof. Mammola C.L.)
  - Dept. of Chemistry and Technology of Drugs (Prof. Mannina L., Prof. Ragno R., Prof. Petralito S., Prof. Paolicelli P., Prof. Garzoli S., Prof. Cesa S., Prof. Frascchetti C.)
  - Dept. of Biochemical Science “A. Rossi Fanelli” (Prof. Eufemi M., Prof. Altieri F., Prof. Scotto D’Abusco A.)
  - Dept. of Environmental Biology (Prof. Nicoletti, Prof. Serafini, Dr. Toniolo C., Dr. De Vita D.)
  - Dept. of Experimental Medicine (Prof. Giusti A.M.)
  - Dept. of Cardiovascular and Respiratory Sciences - Sapienza University of Rome-S. Andrea Hospital (MD, Dr. Pezzuto A.)

### *Company Partnerships*

- Production Consortium located at Pontecorvo in the Lazio Region (Pontecorvo, Frosinone, Italy)
- IDROLUPPOLO startup (Fondi, Latina, Italy)
- Vanda Omeopatici Srl (Frascati, Rome, Italy)
- EPO Srl (Milan, Italy)

**Rome**

**12 December 2020**

**Signature**

