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Decreto Rettore Università di Roma "La Sapienza" n. 3227/2021 del 02.12.2021

DEBORAH QUAGLIO
Curriculum Vitae

Place Rome
Date 20/01/2022

Part I – General Information

Full Name	DEBORAH QUAGLIO
Citizenship	ITALIAN
E-mail	deborah.quaglio@uniroma1.it
Spoken Languages	ITALIAN, ENGLISH

Part II – Education

IIA – Academic Education

Type	Year	Institution	Notes (Degree, Experience,…)
PhD	2017	Sapienza - University of Rome	Pharmaceutical Sciences (XXIX cycle)
University graduation	2013	Sapienza - University of Rome	Medicinal Chemistry (Laurea Specialistica a ciclo unico – classe 14S in Chimica e Tecnologia Farmaceutiche (CTF))

IIB – Other training course

10-12/05/2021	University of Milan	4rd Edition of the "International School of Process Chemistry – ISPROCHEM 2021". Virtual
23-25/11/2015	COST Action CM1106_Faculty of Pharmacy, Universidade de Lisboa, Lisbon (Portugal)	Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells - Training School of COST Action CM1106.
15-19/06/2014	University of Milan, Gargnano (BS), Italy.	XXXIX International Summer School on Organic Synthesis. A. Corbella.
21-24/05/2013	Sapienza - University of Rome, Rome, Italy.	Epigenetic Rome Training School.
04/04-13/06/2013	Sapienza - University of Rome, Rome, Italy.	CORSO SSSAS - Course in Management, use and transfer of research results.

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
04/12/2019	03/12/2022	Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	Assistant Professor (in Italy researcher of type A), SSD CHIM/06. Research topic: Design and synthesis of naturally-

			occurring anticancer compounds active against Notch and Hedgehog signaling pathways.
01/12/2018	30/11/2019	Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	Post-doctoral Fellow. Research topic: NMR metabolomics analyses of foods and biological fluids.
01/12/2016	30/11/2018	Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	Post-doctoral Fellow. Research topic: NMR metabolomics fingerprint of foods related of regional products.

IIIB – Research Experiences

13/01/2016	30/09/2016	University of Florence	Long Term Visiting-PhD at CERM - Magnetic Resonance Center

Part IV – Teaching experience

Year	Institution	Lecture/Course
A.A. 2021/2022	Department of Chemistry, Sapienza - University of Rome	*Professor* of the course entitled "Identificazione e sintesi di prodotti naturali da piante superiori: dalla ricerca di base alla fase clinica di sperimentazione" (24 hours, 3 CFU, SSD CHIM/06) for the PhD in Chemical Sciences.
(30/06-02/07) 2021	Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	*Trainer* at the Training School of the CM1407 COST Action STRATAGEM (1 hour).
A.A. 2021/2022	Faculty of Mathematical, Physical and Natural Sciences, Department of Biology and Biotechnology "Charles Darwin", Sapienza - University of Rome	*Professor* of Organic Chemistry course (48 hours, 6 CFU, SSD CHIM/06), bachelor degree in Food and Industrial Biotechnology.
A.A. 2020/2021	Faculty of Mathematical, Physical and Natural Sciences, Department of Biology and Biotechnology "Charles Darwin", Sapienza - University of Rome	*Professor* of Organic Chemistry course (48 hours, 6 CFU, SSD CHIM/06), bachelor degree in Industrial Biotechnology.
A.A. 2021/2022 2020/2021	Faculty of Pharmacy and Medicine, Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	*Professor* of Organic Chemistry and Organic Natural Compounds Chemistry course (32 hours, 4 CFU, SSD CHIM/06), bachelor degree in Applied Pharmaceutical Sciences.
A.A. 2018/2019 2017/2018	Faculty of Pharmacy and Medicine, Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	*Trainer* of Organic Chemistry, degree course in Pharmacy, Sapienza University of Rome (SSD CHIM/06).

(7-8/02) 2019 (6-7/02) 2018	Department of Chemistry and Technology of Drugs, Sapienza - University of Rome	*Tutoring activity* in Work-linked training of high school students (8 hours) – Project P0134– "Tecniche analitiche di riconoscimento e dosaggio di farmaci".

Part V - Society memberships, Awards and Honors

Year	Title
2018-2021	Member of the Italian Chemical Society (SCI), Division of Organic Chemistry.
2016	Member of Gruppo Italiano Discussione Risonanze Magnetiche (GIDRM).
2017	Winner of the best poster competition at the COST ACTION CM1407 "CHALLENGING ORGANIC SYNTHESES INSPIRED BY NATURE: FROM NATURAL PRODUCTS CHEMISTRY TO DRUG DISCOVERY", Krakow, Poland

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

VIA – Funding Information [grants as PI-principal investigator]

Year	Title	Program	Grant value
2016	**PI** in the project: "Sintesi di analoghi del Glabrescione B e nuove strategie nel drug delivery per la cura del medulloblastoma".	Sapienza – University Research Project 2016	1.000,00 €
2015	**PI** in the project: "Sintesi di Inibitori della Via Hedgehog per il Trattamento del Medulloblastoma e Studi NMR di Interazione Farmaco – Recettore".	Sapienza – University Research Project 2015	1.400,00 €

VIB – Funding Information [grants as I- investigator, participant]

Year	Title	Program	Grant value
09/2021-08/2023	**I** in the project: "Pharmacological inhibition of colistin resistance in gram-negative cystic fibrosis pathogens".	FFC Project (FFC#12/2021). Extension of previous FFC project (FFC#15/2019).	84.040,00 €
2020	**I** in the project: "Multifaceted use of mass spectrometry in asymmetric synthesis: from selection of organocatalyst, to the screening of immobilized organocatalyst in flow mode".	Sapienza - University Research Project 2020	48.000,00 €
2018-present	**I** in the project: "New multi-targeting approaches in Hedgehog-dependent cancers".	AIRC 2017 (N. 20801)	801.000,00 €
2017	**I** in the project: "Studio multi-metodologico dei prodotti della filiera agroalimentare della canapa industriale".	Sapienza - University Research Project 2017	34.750,00 €

2014	**I** in the project: "Veicolazione Cerebrale di Nuovi Inibitori della Via di Trasduzione del Segnale di Hedgehog".	Sapienza - University Research Project 2014	2.000 €

Part VII – Research Activities

Keywords	Brief Description
Natural products	*Isolation, structural elucidation and synthesis of therapeutically-active natural products and their derivatives.* Dr. Quaglio research interest aims at developing chemical libraries of novel natural products, mostly identified from extracts of medicinal plants, and at designing and synthesizing small bioactive molecules and their derivatives. In particular, she was involved in the construction, also virtually, of a unique high-diversity collection of natural products, enlarged with their semi-synthetic and synthetic derivatives up to around 2000 components. The isolation and the structural elucidation of several natural products were carried out by using 1D and 2D Nuclear Magnetic Resonance Spectroscopy (NMR) and High-Resolution Mass Spectrometry (HRMS) techniques. Among the challenging projects on the identification of bioactive natural products, she was involved in the field of targeted therapy against i) signaling pathways hyper-activated in cancer stem cells (e.g., Hedgehog and Notch), which play a crucial role in the initiation, proliferation, invasion, and metastasis of various cancers (*inter alia* medulloblastoma); ii) enzymes responsible for the onset of antibiotic resistance in Gram-negative bacteria (e.g., *Pseudomonas aeruginosa*). Based on computer-aided methods, several lead compounds have been developed, and in some cases patented, as anticancer agents and antibiotic adjuvants. In this context, her expertise in organic synthesis allowed the optimization of active Hits up to Lead compounds or, at least, Lead candidates by improving potency, stability, physicochemical features, chemical properties, and metabolic/pharmacokinetics parameters. In addition, Dr. Quaglio was involved in Sapienza - University Research Project 2017 on the application of a multidisciplinary analytical protocol, involving targeted and untargeted techniques, to characterize the industrial hemp production chain products (i.e., inflorescences, seeds, hemp seed oil, flour and essential oils). **Main skills: NMR, HPLC-UV, LC-MS, MS.**
Macrocycles	*Synthesis of artificial receptors endowed with suitable chemical and physical properties by classical and organometallic approaches*. In the field of supramolecular chemistry, Dr. Quaglio research interest is dedicated to the synthesis of artificial receptors of the calixarene family (namely resorcarenes): i) she designed resorc[4]arene octamethyl ethers, featuring long aliphatic side chains, able to entrap nitrosonium (NO^+) cation in their cavities with the aim of combining the entrapping properties of resorcarenes with the possible anchorage to a solid support. Accordingly, the cone stereoisomer was employed as selector for liquid chromatography in the separation of highly polar natural products (namely, flavonoids), under reversed-phase (RP) conditions, and of fullerenes C60 and C70, by using apolar solvents as mobile phases; ii) she was involved in the design and the synthesis of resorc[4]arene ω-undecenyl ester as macrocyclic synthon for olefin metathesis reaction, in order to incorporate the macrocycles into polymeric architectures with intriguing mechanical properties. She obtained relevant results in the detection by NMR technique of the formation of a ruthenium-carbene-resorc[4]arene complex during the progress of the above-mentioned reaction; iii) as an extension of the complexation studies, the design of resorc[4]arene derivatives

	have been proposed as an alternative tool to immobilize proteins as biological component of ligand-based biosensor. In this context, she designed, synthetized and characterized new resorc[4]arene-based systems as artificial linkers for enzymes and antibodies immobilization; iv) Many biologically active compounds feature low solubility in aqueous media and, thus, poor bioavailability. The formation of the host-guest complex by using calixarene-based macrocycles with a good solubility profile can improve solubilization of hydrophobic drugs. Accordingly, she explored the ability of resorc[4]arenes to self-assemble in polar solutions, to form supramolecular aggregates, and to promote water-solubility of an isoflavone endowed with anti-cancer activity. **Main skills: NMR, HPLC-UV, LC-MS.**
Bioconjugate techniques	*Design and synthesis of positively charged linkers for bioconjugate-drug development*. The therapeutic oligonucleotides encapsulation into ferritin nanocages is considered as a promising strategy to increase their stability and delivery to target cells. However, the protein inner cavity features many negatively charged residues making the possibility to encapsulate oligonucleotides very unlikely. In this context, Dr. Quaglio developed widely accessible and low-cost procedures for the synthesis of rigid-rod-like amines linked to thiol-reactive reagents for the chemoselective conjugation of engineered cysteine residues located inside the ferritin cavity. **Main skills: NMR, HPLC-UV, LC-MS.**
NMR metabolomics	During the last period of her PhD training, Dr. Quaglio was part of an international laboratory at CERM, the center for magnetic resonance of the University of Florence, carrying out a cooperative project concerning the use of NMR technique in cell metabolomics. In particular, she performed the metabolome characterization of human medulloblastoma and murine glioma cell lines ("oncometabolomics") by using high-field 900-MHz spectrometer. She provided important information about the metabolic changes accompanying cancer progression and response to drug treatment. **Main skills: NMR-spectroscopy data acquisition (TopSpin NMR Bruker software); preprocessing of the metabolomics data set; resonance assignments of the major metabolites in the spectra (AMIX software, public databases i.e. Human Metabolome Database-HMBD, spiking NMR experiment); multivariate and univariate statistical analysis (R program).**

Part VIII – Organization of conferences, workshops and scientific meetings

Dates	Institution/place	Description
30/06-02/07/ 2021	COST, Rome, Italy	STRATAGEM Training School of the COST Action CM1407 - Targeting MDR Tumours: from natural product chemistry to nanocarrier-based formulation
08/06/2018	Società Chimica Italiana (SCI), Rome, Italy	CHIMICAPISCE. Workshop di presentazione del Gruppo Interdivisionale di Diffusione della Cultura Chimica.
07/06/2018	Società Chimica Italiana (SCI), Rome, Italy	Y-RICh 2018 (Young Reasearch Ideas in Chemistry) workshop focalizzato sui progetti europei individuali per giovani ricercatori nel campo delle Scienze Chimiche.
06/12/2016	Department of Chemistry and Technology of Drugs, Sapienza - University of Rome, Rome, Italy	Workshop how Computer Chemistry could be exploited in Current Life Science.

Part IX – Participation to conferences, workshops and scientific meetings

Dates	Institution/place	Description
21-24/09/2021	Sapienza - University of Rome, Rome, Italy	NANOINNOVATION 2021 – Conference & Exhibition.
14-23/09/2021	Congresso Nazionale della Società Chimica Italiana (SCI), Virtual	XXVII CONGRESSO NAZIONALE SCI.
13-20/08/2021	International Virtual Congress	IUPAC CCCE 2021 - 48th World Chemistry Congress & 104th Canadian Chemistry Conference and Exhibition.
05-06/07/2021	International Virtual Mini Symposium	ESOC 2021 - European Symposium on Organic Chemistry.
23/04/2021	Virtual Conference	BIOHYDROGELS 2021_Virtual Conference from basic science to applications of hydrogels in drug delivery and regenerative medicine.
05-07/11/2020	San Francisco (USA), Virtual	2nd Analytical and Bioanalytical Methods Conference (Virtual) - (Analyticon-2020)
02-06/06/2019	Lecce, Italy	The 14th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC2019).
13-14/12/2018	La Laguna Tenerife, Spain	COST ACTION CM1407 - Challenging organic syntheses inspired by nature from natural products chemistry to drug discovery Final Meeting
11-13/06/2018	University Campus Bio-Medico, Rome, Italy	EURO CHEMISTRY CONFERENCE.
01-02/03/2018	COST, Malta	COST ACTION CM1407 - Challenging organic syntheses inspired by nature from natural products chemistry to drug discovery Fifth Meeting.
14-16/11/2017	Padova, Italy	Advances in NMR and MS based Metabolomics.
10-14/09/2017	FEBS Congress, Jerusalem, Israel	"FROM MOLECULES TO CELLS AND BACK" 42nd FEBS Congress.
09-12/07/2017	ISOM, Zurich, Switzerland	ISOM XXII – 22ND International Symposium on Olefin Metathesis and Related Chemistry.
18-21/06/2017	Società Chimica Italiana (SCI), Santa Margherita di Pula (CA), Italy	XIII Congresso Nazionale di Chimica Supramolecolare.
17/03/2017	Sapienza - University of Rome, Rome, Italy	Workshop: "LA CANAPA INDUSTRIALE"
02-03/03/2017	COST, Krakow, Poland	COST Action CM1407 3rd Meeting- Challenging Organic Syntheses Inspired by Nature: from Natural Products Chemistry to Drug Discovery.
16/09/2016	Sapienza - University of Rome, Tolfa (Rome), Italy	Workshop: La canapa industriale: stato attuale e prospettive
15/06/2016	Gruppo Italiano Discussione Risonanze Magnetiche (GIDRM), University of Florence, Florence, Italy	Workshop: Industrial Applications of Proteins: What Role for NMR?
05-06/10/2015	COST, Sapienza - University of Rome, Rome, Italy	COST Action CM1407 1st meeting – Challenging Organic Syntheses Inspired by Nature: From Natural Products Chemistry to Drug Discovery.

08-10/09/2015	Società Chimica Italiana (SCI), Sapienza - University of Rome, Rome, Italy	ChirItaly Conference
12-16/07/2015	ISOM, Graz, Austria	ISOM XXI, International Symposium on Olefin Metathesis and Related Chemistry
23/01/2015	Sapienza - University of Rome, Rome, Italy	BeMM (Biology and Molecular Medicine) PhD Symposium 2015
19-20/01/2015	COST, Barcelona, Spain	Focused Joint-meeting for Early Stage Researchers "Targeting Hedgehog Signaling in Cancer Stem Cells". COST Action CM1106 - Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells
19-20/05/2014	Sapienza - University of Rome, Rome, Italy	Conference: Quo Vadis Synthesis? Can the Chemist Replace Mother Nature in the Creation of Molecules of Life?"
27-28/03/2014	COST, Eötvös Loránd Università Budapest, Ungheria	EU COST CMST Action CM1106: 2nd Working Group Meeting
05/03/2014	ALFATEST, University of Tor Vergata, Rome, Italy	Workshop: Immagini ad alta risoluzione e microanalisi con SEM da BANCO "all-in-one": accuratezza, semplicità, velocità
20/09/2013	ITER, Sapienza - University of Rome, Italy	Workshop: Nanoforum
10-13/09/2013	Sapienza - University of Rome, Rome, Italy	XXII National Meeting on Medicinal Chemistry

Part X – Oral communications

21-24/09/2021	NANOINNOVATION 2021 – Conference & Exhibition. Sapienza - University of Rome, Italy	Title: Cell Metabolomics: a Strategy to Study Crucial Pathways in Cancer Development. **Invited speaker.**
14-23/09/2021	XXVII CONGRESSO NAZIONALE SCI. Congresso Nazionale della Società Chimica Italiana (SCI), Virtual	Title: Resorc[4]arene-based site directed immobilization of antibodies for immunosensors development.
13-20/08/2021	IUPAC CCCE 2021 - 48th World Chemistry Congress & 104th Canadian Chemistry Conference and Exhibition, Virtual.	Title: Development of Humanized ferritin conjugated to piperazine-based compounds as delivery system of siRNA in cancer cells.
05-07/11/2020	2nd Analytical and Bioanalytical Methods Conference (Virtual) - (Analyticon-2020)	Title: Cell Metabolomics: a Strategy to Study Crucial Pathways in Cancer Development.
09-12/07/2017	ISOM XXII, International Symposium on Olefin Metathesis and Related Chemistry. Zurich, Switzerland	Title: Snapshot of Ruthenium–Carbene–Resorc[4]arene Complex in an Olefin Metathesis Reaction.
09-12/01/2015	COST Action CM1106 - Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells. Barcelona, Spain	Title: Gli1/DNA interaction is a druggable target for Hedgehog-dependent tumors.

27-28/03/2014	COST Action CM1106 - Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells. Budapest, Ungheria	Title: Undecenyl resorc[4]arene esters as preorganized synthons for drug delivery and supramolecular recognition.

Part XI – Poster Presentation

02-06/06/2019	The 14th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC2019). Lecce, Italy	Title: From Macrocycles to Molecular Shuttles: Exploring the Supramolecular Assembly of Resorc[4]arenes.
11-13/06/2018	EURO CHEMISTRY CONFERENCE. University Campus Bio-Medico, Rome, Italy	Title: Snapshot of Ruthenium–Carbene–Resorc[4]arene Complex in an Olefin Metathesis Reaction.
01-02/03/2018	COST ACTION CM1407 - Challenging organic syntheses inspired by nature from natural products chemistry to drug discovery Fifth Meeting. Malta	Title: Discovery of potent isoflavone as selective inhibitor of Hedgehog-dependent tumors.
10-14/09/2017	"FROM MOLECULES TO CELLS AND BACK" 42nd FEBS CONGRESS, Jerusalem, Israel	Title: Discovery of potent isoflavone (Glabrescione B) as selective inhibitor of Hedgehog-dependent tumors.
18-21/06/2017	XIII Congresso Nazionale di Chimica Supramolecolare. Società Chimica Italiana (SCI), Santa Margherita di Pula (CA), Italy	Title: Synthesis of a Basket-Resorc[4]arene via Metathesis Reaction and Complexation Studies of Fullerenes C60 and C70.
02-03/03/2017	COST Action CM1407 3rd Meeting - Challenging organic syntheses inspired by nature: from natural products chemistry to drug discovery. Krakow, Poland	Title: Identification of a novel chalcone derivative that inhibits Notch signalling in T-cell acute lymphoblastic leukemia.
05-06/10/2015	COST Action CM1407 - Challenging organic syntheses inspired by nature: from natural products chemistry to drug discovery. Rome, Italy	Title: Synthesis of chalcones as inhibitors of the Notch signaling pathway in the treatment of T-cell acute lymphoblastic leukemia.
12-16/07/2015	ISOM XXI, International Symposium on Olefin Metathesis and Related Chemistry. Graz, Austria	Title: Synthesis of a basket-resorc[4]arene via metathesis reaction and encapsulation studies of fullerenes C60 and C70.
15-19/06/2014	XXXIX International Summer School on Organic Synthesis. A. Corbella. University of Milan, Gargnano (BS), Italy	Title: Synthesis of a basket-resorc[4]arene via metathesis reaction and encapsulation studies of fullerenes C60 and C70.

Part XII – Scientific Qualification

Date	Brief Description
11/2013	Qualified Pharmacist at Sapienza - University of Rome

Part XIII – Patents

Issue Date	Description
Priorities: IT201600132360A · 2016-12-29; IB2017058204W·2017-12-20	Co-author of the family patent: B. Botta, I. Screpanti, L. Tottone, N. Zhadanoskaya, C. Ingallina, F. Giulimondi, D. Quaglio, R. Palermo, M. Mori, F. Ghirga. **NOTCH inhibitors for use in the treatment of T- cell acute lymphoblastic leukemia**. Published as: IT201600132360A1 ·2018-06-29 (**Patent granted** 23-05-2019); WO2018122689A1·2018- 07-05; EP3562803A1·2019-11- 06; US2019337916A1·2019-11-07; US11104657B2·18-08-2021 (**Patent granted**)
Priorities: IT201800002402A · 2018-02-05.	Co-author of the family patent: C. Limatola, G. D'Alessandro, L. Di Marcotullio, P. Infante, B. Botta, M. Mori, F. Ghirga, C. Ingallina, S. Berardozzi, P. Caliceti, S. Salmaso, M. De Martino, F. Gasparrini e D. Quaglio. **Compounds for use in the treatment of brain diseases**. Published as: CN112004534A·2020-11-27; EP3749300A1·2020-12-16; US2021030714A1·2021-02-04
Priorities: IT102019000012888 · 2019-09-25.	Co-author of the family patent: F. Imperi, F. Ascenzioni, M. Mori, F. Ghirga, D. Quaglio, S. Corradi, A. LoSciuto, B. Botta, A. Calcaterra, R. Stefanelli. **Inhibitors of antibiotic resistance mediated by ArnT**. Published as: IT201900012888A1·2021-01-25; WO2021014422A1·2021-01-28

Part XIV – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	39	SCOPUS	2014	2021
Books [scientific]	1	SCOPUS	2016	2021
Posters	9		2014	2021
Conference oral communications	7		2014	2021

Total Impact factor	178.136
Total Citations	471
Average Citations per Product	11.77
Hirsch (H) index	15
Normalized H index*	1.875

*****H index divided by the academic seniority.

Part XV– Selected Publications

List of the 15 publications selected for the evaluation (2014-2021).
For each publication, authors, title, reference data, journal IF (InCites JCR) and number of citations (Scopus) are reported. IF is relative to the year of publication or, if not available, to the year closest to the year of publication. The role of the candidate as corresponding author is highlighted by reporting the symbol * after the name. The role of the candidate as first or co-first author is highlighted by reporting the symbol † after the name.

(†) First name: n. 6 papers
(*) Corresponding author: n. 2 papers
Last name: 1 paper

1	**2021**	Articolo in rivista Buonsenso, Fabio, Ghirga, Francesca, Romeo, Isabella, Siani, Gabriella, Pilato, Serena, **Quaglio***, Deborah, Pierini, Marco, Botta, Bruno, Calcaterra, Andrea. Exploring the Assembly of Resorc[4]arenes for the Construction of Supramolecular Nano-Aggregates. **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**, 22, 11785. ISSN: 1661-6596, doi: 10.3390/ijms222111785 IF (2021)= 5.924 Q1 Organic Chemistry; Citation (Scopus): 0 Filename (pdf): Buonsenso et al., International Journal of Molecular Science_2021
2	**2021**	Articolo in rivista Pediconi, Natalia, Ghirga, Francesca, Del Plato, Cristina, Peruzzi, Giovanna, Athanassopoulos, Constantinos M., Mori, Mattia, Crestoni, Maria Elisa, Corinti, Davide, Ugozzoli, Franco, Massera, Chiara, Arcovito, Alessandro, Botta, Bruno, Boffi, Alberto, **Quaglio***, Deborah, Baiocco, Paola. Design and Synthesis of Piperazine-Based Compounds Conjugated to Humanized Ferritin as Delivery System of siRNA in Cancer Cells. **BIOCONJUGATE CHEMISTRY**, 32, 1105−1116. ISSN: 1043-1802, doi: 10.1021/acs.bioconjchem.1c00137 IF (2020)= 4.774 Q1 Organic Chemistry; Citation (Scopus): 2 Filename (pdf): Pediconi et al., Bioconjugate Chemistry_2021
3	**2021**	Articolo in rivista Ghirga, Francesca, **Quaglio**, Deborah, Mori, Mattia, Cammarone, Silvia, Iazzetti, Antonia, Goggiamani, Antonella, Ingallina, Cinzia, Botta, Bruno, Calcaterra, Andrea. A unique high-diversity natural product collection as a reservoir of new therapeutic leads. **ORGANIC CHEMISTRY FRONTIERS**, 8, 996-1025. ISSN: 2052-4110, doi: 10.1039/D0QO01210F IF (2020)= 5.281; Q1 Organic Chemistry; Citation (Scopus): 8 Filename (pdf): Ghirga et al., Organic Chemistry Frontiers_2021
4	**2021**	Articolo in rivista Spano, Mattia, Di Matteo, Giacomo, Ingallina, Cinzia, Botta, Bruno, **Quaglio**, Deborah, Ghirga, Francesca, Balducci, Silvia, Cammarone, Silvia, Campiglia, Enio, Giusti, Anna Maria, Vinci, Giuliana, Rapa, Mattia, Ciano, Salvatore, Mannina, Luisa, Sobolev, Anatoly P. A Multimethodological Characterization of Cannabis sativa L. Inflorescences from Seven Dioecious Cultivars Grown in Italy: The Effect of Different Harvesting Stages. **MOLECULES**, 26(10), 2912. ISSN: 1420-3049, doi: 10.3390/molecules26102912 IF (2021)= 4.411; Q2 Organic Chemistry; Citation (Scopus): 2 Filename (pdf): Spano et al., Molecules_2021
5	**2020**	Articolo in rivista **Quaglio**†, Deborah, Mangiardi, Laura, Venditti, Giulia, Del Plato, Cristina, Polli, Francesca, Ghirga, Francesca, Favero, Gabriele, Pierini, Marco, Botta, Bruno, Mazzei, Franco. Site-directed antibodies immobilization by resorc[4]arene-based immunosensors. **CHEMISTRY-A EUROPEAN JOURNAL**, 26(38), 8400–8406. ISSN: 0947-6539, doi: 10.1002/chem.202000989

		IF (2020)= 5.236; Q1 Organic Chemistry; Citation (Scopus): 2 Filename (pdf): Quaglio et al., Chemistry-A European Journal_2020
6	**2020**	Articolo in rivista **Quaglio**†, Deborah, Corradi, Silvia, Erazo, Silvia, Vergine, Valeria, Berardozzi, Simone, Sciubba, Fabio, Cappiello, Floriana, Crestoni, Maria Elisa, Ascenzioni, Fiorentina, Imperi, Francesco, Delle Monache, Franco, Mori, Mattia, Loffredo, Maria Rosa, Ghirga, Francesca, Casciaro, Bruno, Botta, Bruno, Mangoni, Maria Luisa. Structural elucidation and antimicrobial characterization of novel diterpenoids from fabiana densa var. ramulosa. **ACS MEDICINAL CHEMISTRY LETTERS**, 11(5), 760-765. ISSN: 1948-5875, doi: 10.1021/acsmedchemlett.9b00605 IF (2020)= 4.345; Q1 Organic Chemistry; Citation (Scopus): 8 Filename (pdf): Quaglio et al., ACS Medicinal Chemistry Letters_2020
7	**2020**	Articolo in rivista **Quaglio**†, Deborah, Mangoni, Maria Luisa, Stefanelli, Roberta, Corradi, Silvia, Casciaro, Bruno, Vergine, Valeria, Lucantoni, Federica, Cavinato, Luca, Cammarone, Silvia, Loffredo, Maria Rosa, Cappiello, Floriana, Calcaterra, Andrea, Erazo, Silvia, Ghirga, Francesca, Mori, Mattia, Imperi, Francesco, Ascenzioni, Fiorentina, Botta, Bruno. Ent-Beyerane Diterpenes as a Key Platform for the Development of ArnT-Mediated Colistin Resistance Inhibitors. **JOURNAL OF ORGANIC CHEMISTRY**, 85(16), 10891-10901. ISSN: 0022-3263, doi: 10.1021/acs.joc.0c01459 IF (2020)= 4.354; Q1 Organic Chemistry; Citation (Scopus): 6 Filename (pdf): Quaglio et al., Journal of Organic Chemistry_2020
8	**2020**	Articolo in rivista Ingallina, Cinzia, Sobolev, Anatoly P, Circi, Simone, Spano, Mattia, Fraschetti, Caterina, Filippi, Antonello, Di Sotto, Antonella, Di Giacomo, Silvia, Mazzoccanti, Giulia, Gasparrini, Francesco, **Quaglio**, Deborah, Campiglia, Enio, Carradori, Simone, Locatelli, Marcello, Vinci, Giuliana, Rapa, Mattia Ciano, Salvatore, Giusti, Anna Maria, Botta, Bruno, Ghirga, Francesca, Capitani, Donatella, Mannina, Luisa. Cannabis sativa L. Inflorescences from Monoecious Cultivars Grown in Central Italy: An Untargeted Chemical Characterization from Early Flowering to Ripening. **MOLECULES**, 25(8), 1908. ISSN: 1420-3049, doi: 10.3390/molecules25081908 IF (2020)= 4.411; Q2 Organic Chemistry; Citation (Scopus): 16 Filename (pdf): Ingallina et al., Molecules _2020
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