

Curriculum Vitae

Personal information

First name/Surname	Bruno Mattia Bizzarri
Address	Via Andrea Mantegna 18/22 (VT) Italy
Telephone	3287382490
E-mail	bm.bizzarri@unitus.it
Nationality	Italian
Date of birth	10/03/1988
Gender	Male

Occupational field

Work experience

Dates	October 2021
Title of qualification awarded	Professor of Green chemistry (PhD program)
Name and type of organisation providing education and training	University of Tuscia
Dates	October 2021
Title of qualification awarded	Adjunct Professor in Laboratory of chemical monitoring of environment (Docente a contratto in Laboratorio di monitoraggio chimico ambientale -DEB-Scienze biologiche ambientali polo CV) SSD Chim/06
Name and type of organisation providing education and training	University of Tuscia
Dates	March 2021 - present
Title of qualification awarded	Delegate for university orientation
Name and type of organisation providing education and training	University of Tuscia , Department of Ecology and Biology
Dates	October 2020
Title of qualification awarded	Adjunct Professor in Laboratory of chemical monitoring of environment (Docente a contratto in Laboratorio di monitoraggio chimico ambientale -DEB-Scienze biologiche ambientali polo CV) SSD Chim/06

Name and type of organisation providing education and training	University of Tuscia
Dates	October 2020
Title of qualification awarded	Professor in Organic Chemistry (Docente in chimica organica -DEB-Scienze biologiche ambientali polo CV) SSD Chim/06
Name and type of organisation providing education and training	University of Tuscia
Dates	March 2020- present
Title of qualification awarded	Professor in Organic Chemistry (Docente in chimica organica -DEB-Scienze ambientali polo CV) SSD Chim/06
Name and type of organisation providing education and training	University of Tuscia
Dates	January 2020 - present
Title of qualification awarded	Delegate for placement and business
Name and type of organisation providing education and training	University of Tuscia , Department of Ecology and Biology
Dates	November 2019- present
Title of qualification awarded	Researcher (Ricercatore a tempo determinato fascia A RTDa) SSD Chim/06
Name and type of organisation providing education and training	University of Tuscia
Dates	October 2018- present
Title of qualification awarded	Adjunct Professor in Inorganic Chemistry (docente a contratto in chimica inorganica) SSD Chim/03
Name and type of organisation providing education and training	University of Tuscia
Dates	October 2017- present
Title of qualification awarded	Tutor/Coach for Organic Chemistry (contratto da esercitatore ITA) SSD Chim/06
Name and type of organisation providing education and training	University of Tuscia
Date	January 2018- present

Occupation	Temporary Research Fellow (Assegnista di ricerca - ITA)
Main activities and responsibilities	Organic chemistry catalysis, analytical chemistry, enzymatic synthesis, drug design, peptide synthesis, prebiotic synthesis.
Name and address of employer	University of Tuscia, Via Camillo de Lellis (VT)
Date	January 2017 - December 2017
Occupation	Post-Doc fellowship
Main activities and responsibilities	Organic chemistry, analytical chemistry, enzymatic synthesis, drug design, peptide synthesis, prebiotic synthesis.
Name and address of employer	University of Tuscia, Via Camillo de Lellis (VT)
Date	January 2014 - December 2016
Occupation	Ph.D student
Main activities and responsibilities	Organic chemistry, analytical chemistry, enzymatic synthesis, drug design, peptide synthesis, prebiotic synthesis.
Name and address of employer	University of Tuscia, Via Camillo de Lellis (VT)
Dates	March 2013 -December 2013
Occupation	Scholarship
Main activities and responsibilities	Design and synthesis of new compounds against HIV virus
Name and address of employer	University of Siena - Department of Biotechnology, Chemistry and Pharmacy
Type of business or sector	Medicinal Chemistry
Dates	January 2012 - February 2013
Occupation	Internship in Medicinal Chemistry Lab
Main activities and responsibilities	Design and synthesis of new compounds against HIV virus
Name and address of employer	Università degli studi di Siena - Dipartimento Biotecnologie, chimica e farmacia
Type of business or sector	Medicinal Chemistry
Education and training	
Dates	June 2017
Title of qualification awarded	PhD (Green chemistry)
Name and type of organisation providing education and training	University of Tuscia
Dates	2014- 2017
Title of qualification awarded	Teaching assistant (inorganic chemistry and organic chemistry)
Name and type of organisation providing education and training	University of Tuscia
Dates	July 2013

<p>Title of qualification awarded</p> <p>Name and type of organisation providing education and training</p> <p>Level in national or international classification</p>	<p>Pharmacist board exam</p> <p>University of Siena</p> <p>ISCED 5b</p>						
<p>Dates</p> <p>Title of qualification awarded</p> <p>Name and type of organisation providing education and training</p> <p>Level in national or international classification</p>	<p>February 2013</p> <p>Master in Medicinal Chemistry</p> <p>University of Siena</p> <p>ISCED 5b</p>						
<p>Language</p> <p>Mother language</p> <p>Other language</p> <p>Personal skills and competences</p> <p>Social skills and competences</p>	<p>Italian</p> <p>English</p> <table border="1" data-bbox="612 853 1584 974"> <thead> <tr> <th>Understanding</th> <th>Speaking</th> <th>Writing</th> </tr> </thead> <tbody> <tr> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </tbody> </table> <p>Personal skills and competences</p> <p>During my working experiences I had the opportunity to collaborate with different and multi-ethnic research groups. These experiences make me able to work both in large team and alone. I coordinated the activities of students involved in different thesis projects (design and synthesis of new DABO compounds with anti-HIV activity, preparation and purification of new peptidomimetics against Parkinson's disease, prebiotic synthesis of biomolecules and analytic identification by MS techniques using an ex-novo library, extraction and purification of natural substances, development of new catalyst and bio-catalyst for the synthesis of active compounds, bio-nanotechnologies topics), I'm responsible of several analytical instrument (GC/LC-MS/MS, NMR, FT-IR,) at CGA (Centro Grandi apparecchiature di Ateneo , University of Tuscia, VT) and their maintenance. During last years I was teaching assistant and tutor for organic, inorganic chemistry and chemistry of natural substances courses. Responsibility, attention, determination, dialectic, self-motivation and problem-solving skills are some of my distinctive aspects.</p>	Understanding	Speaking	Writing	Excellent	Excellent	Excellent
Understanding	Speaking	Writing					
Excellent	Excellent	Excellent					
<p>Organisational skills and competences</p>	<p>Good experience in project management and team co-ordination. I was involved in different research project:</p> <ul style="list-style-type: none"> - Design and preparation of new catalysts Ruthenium based for the synthesis of Anti-Viral Compounds. - Hypervalent Iodine application for selective eco-friendly oxidations of aromatic alcohols. - Rhenium-based nanocatalysts development for the synthesis of chalcone derivatives. - Organo-catalytic approach and Hypervalent Iodine application for selective eco-friendly oxidations of aromatic alcohols. - Iodoxy-benzoic acid for the synthesis of new coumarin derivatives as anti-viral agents. - Design, synthesis and ADME optimization of new active compounds (DABO family) against reverse transcriptase. - Design, synthesis and analysis of new peptido-mimetics by development of green enzymatic approach against Parkinson's Disease. - Library creation and characterization of complex mixture from unconventional synthesis. - Prebiotic synthesis in terrestrial and space conditions. (different topics) - Design and synthesis of new coumarin derivatives potentially active on melanoma cancer. - Development of new biomimetic systems for the synthesis of quinone-derivatives. - Extraction, characterization and quantification of antioxidant and anti-aging derivatives from natural sources. - Design and synthesis of new Artemisinin derivatives. - Natural sources and their application in cosmoceutic and pharmaceutical fields. 						

<p>Network / International collaborations</p>	<ul style="list-style-type: none"> - Krasavin Eugen, Joint Institute for Nuclear Research · Laboratory of Radiation Biology, Dubna. - Juan Manuel Garcia-Ruiz ,CSIC-University of Granada · Instituto Andaluz de Ciencias de la Tierra - Judit E. Sponer, Institute of the Biophysics of the Czech Academy of Sciences. - Tomas Georgelin, Pierre and Marie Curie University - Paris 6 UPMC · Laboratoire de réactivité de surface . - Kevin K. Ariën, Institute of Tropical Medicine, Antwerp, Belgium. - Lili Arabuli, University of Georgia , Tbilisi.
<p>Societies and councils</p>	<p>2018- Member of SIA (Italian Astrobiology Society) 2021- Partner of GENTOXCHEM (University Spin-Off)</p>
<p>Research projects</p>	<p>2014. Research Convention with Terme dei Papi spa society (strada Bagni 12, 01100 Viterbo) for a project entitled: "Caratterizzazione qualitativa e quantitativa della componente organica dei fanghi prodotti nello stabilimento di Viterbo, compresa l'analisi delle loro attività benefiche per l'organismo". Topic: Characterization of natural substances and their catalytic and bio-catalytic transformation. Duration of project: 12 months.</p> <p>2014-2017. Research Convention with ABOCA spa society (San sepolcro, Arezzo) entitled: "Studio di estratti vegetali mediante tecniche analitiche avanzate. Duration of project 5 years.</p> <p>2014-2016. Contract of research with Agenzia Spaziale Italiana ASI N. 2014-026-R.0 entitled: "Esobiologia e ambienti estremi-dalla chimica delle molecole alla biologia degli estremofili ECMB"</p> <p>2016-2017 Research Convention PRONAT with Consorzio della Collezione dei Composti Chimici e Centro di Screening CNCCS entitled "Identificazione di agenti bioattivi da prodotti naturali di origine animale e vegetale". Duration: 12 months.</p> <p>2016-2017 Contract of research with Valmet society (Calenzano, Firenze) entitled: "Plating: modifica delle proprietà dei depositi metallici per il settore galvanico"- Duration: 12 months.</p> <p>2017-present Research Convention with IDI Farmaceutici, Pomezia.</p> <p>2018-2019 FILAS Regione Lazio project MIGLIORA</p> <p>2018- present Research Convention PRONAT II with Consorzio della Collezione dei Composti Chimici e Centro di Screening CNCCS entitled "Identificazione di agenti bioattivi da prodotti naturali di origine animale e vegetale". Duration: 12 months.</p> <p>2019-present ASI-OPPS</p> <p>2019- present PRIN 2017</p> <p>2019- present Research Convention with EDISON</p> <p>2020-present Research Convention with Welcare (Scientific responsible)</p> <p>2020-present Lioo project</p> <p>2021-Research Contract with Welcare (Scientific responsible)</p> <p>2021-Progetto gruppi di ricerca n°POR FESR Lazio 2014-2020. Progetto T0002E0001. "EVER" (PI of organic chemistry unit).</p>
<p>Computer Skills and competences</p>	<p>Computer and softwares: Windows, Macintosh and Linux environment (e.g. Microsoft Office package, Open office package, ChemDraw, Chem 3D, XDrawchem, gchemical, MarvinSketch, NIST MS, Varian workstation).</p> <ul style="list-style-type: none"> -On-line database search (Beilstein Commander, SciFinder Scholar, Scopus) -Scientific writing: excellent skills in writing scientific papers. -Website creation : https://astrobio2020.wixsite.com/asiworkshop

Meetings and conferences

	<p>2012 IV EWDSy - Fourth European Workshop in Drug Synthesis, Siena.</p> <p>2013 IX EWDD – European workshop in Drug Design, Siena.</p> <p>2014 V EWDSy - Fifth European Workshop in Drug Synthesis, Siena.</p> <p>2015 X EWDD – European workshop in Drug Design, Siena.</p> <p>2016 V EWDSy - Sixth European Workshop in Drug Synthesis, Siena.</p> <p>2016 - ASI conference, "Formamide in prebiotic chemistry" Rome (Invited Speaker)</p> <p>2016 - Prometheus meeting, "Formamide: the first evidence of a spontaneous catalytic compartmentalization process in prebiotic chemistry" Granada.</p> <p>(Invited Speaker)</p> <p>2018 - Conference on Life on Earth and beyond, "Proton irradiation: a key to the challenge of N-glycosidic bond formation in a prebiotic context" Bertinoro. (Invited Speaker)</p> <p>2018 - Prometheus meeting, "Silica Metal Oxide Vesicles Catalyze Comprehensive Prebiotic Chemistry" Huelva. (Invited Speaker)</p> <p>2018 - SIAW conference "Chemical Gardens and Mineral Vesicles catalyze comprehensive prebiotic chemistry". Naples (Invited Speaker)</p> <p>2018 - CGA PhD Summer School. "An Overview on Gas chromatography/Mass- Spectrometry". Viterbo (Invited Speaker)</p> <p>2019 – Giornata nazionale della Bioeconomia, Viterbo. (Invited Speaker)</p> <p>2019 – Giornata nazionale della sostenibilità ambientale, Viterbo. (Invited Speaker)</p> <p>2020 – Testimonial day DEB (Organizer) https://www.youtube.com/watch?v=hHYeKbvsjRk&t=1227s</p> <p>27-29-10-2020 - 1st Italian Space Agency workshop on Astrobiology. (Organizer and Speaker)</p> <p>https://astrobio2020.wixsite.com/asiworkshop/local-scientific-organizing-commite "Solar wind polymerization/oxygenation of hydroxynaphthalenes on Meteorites as a novel probe for the Origin of Insoluble Organic Matter"</p> <p>2020 - Gli sbocchi occupazionali nel mondo della ricerca scientifica e dell'industria farmaceutica. I incontro (Organizer and Speaker)</p> <p>2020 - Gli sbocchi occupazionali nel mondo della ricerca scientifica e dell'industria farmaceutica. II incontro (Organizer and Speaker)</p> <p>2020 - Gli sbocchi occupazionali nel mondo della ricerca scientifica e dell'industria farmaceutica. III incontro (Organizer and Speaker)</p> <p>2020 - Gli sbocchi occupazionali nel mondo della ricerca scientifica e dell'industria farmaceutica. IV incontro (Organizer and Speaker)</p> <p>2020 - L' origine della vita: nuove frontiere in astrobiologia (Organizer)</p> <p>28-10-2020 1st Italian Space Agency workshop on Astrobiology. "Solar wind polymerization/oxygenation of hydroxynaphthalenes on Meteorites as a novel probe for the Origin of Insoluble Organic Matter" (Invited Speaker)</p> <p>16-04-2021 - Blue jobs: opportunità professionali nella salvaguardia della biodiversità, l'uso sostenibile delle risorse e la transizione ecologica in ambiente marino. (Organizer)</p> <p>23-04-2021 Green jobs: tutela della biodiversità, uso sostenibile delle risorse naturali e transizione ecologica come opportunità professionali (PARTE 1) (Organizer)</p> <p>28-04-2021 Esperienze professionali nel campo ambientale (Organizer)</p> <p>03-05-2021</p> <p>05-05-2021 Green jobs: tutela della biodiversità, uso sostenibile delle risorse naturali e transizione ecologica come opportunità professionali (PARTE 2) (Organizer)</p> <p>19-05-2021 La figura del biologo e del biotecnologo: percorsi di formazione e opportunità lavorative (Organizer)</p> <p>14/23-09-2021 XXVII Congresso Nazionale della Società Chimica Italiana" (Speaker)</p>
<p>Meetings and conferences as invited speaker</p>	<p>2016 - ASI conference, "Formamide in prebiotic chemistry" Rome</p> <p>2016 - Prometheus meeting, "Formamide: the first evidence of a spontaneous catalytic compartmentalization process in prebiotic chemistry" Granada.</p> <p>2018 -Conference on Life on Earth and beyond, "Proton irradiation: a key to the challenge of N-glycosidic bond formation in a prebiotic context" Bertinoro.</p> <p>2018 - Prometheus meeting, "Silica Metal Oxide Vesicles Catalyze Comprehensive Prebiotic Chemistry" Huelva.</p> <p>2018- SIAW conference "Chemical Gardens and Mineral Vesicles catalyze comprehensive prebiotic chemistry". Naples</p> <p>2018- CGA PhD Summer School. "An Overview on Gas chromatography/Mass- Spectrometry". Viterbo</p> <p>2019 – Giornata nazionale della sostenibilità ambientale "Biological, chemical and environmental sustainability at the Department of Ecology and Biology" Viterbo.</p>
<p>Driving licence</p>	<p>A1-2-3, B</p>

Publications

- Zippilli, C., Bizzarri, B.M., Gabellone, S., Botta, L., Saladino, R. "Oxidative Coupling of Coumarins by Blue-LED-Driven in situ Activation of Horseradish Peroxidase in a Two-Liquid-Phase System" *ChemCatChem*, **2021**, 13(19), pp. 4151–4158.
- Bruno Mattia Bizzarri, Angelica Fanelli, Lorenzo Botta, Claudio Zippilli, Silvia Cesarini and Raffaele Saladino "Dendrimeric structures in the synthesis of fine chemicals" *Materials*, **2021**, 14(18), 5318.
- Lorenzo Botta, Silvia Cesarini, Claudio Zippilli, Silvia Filippi, Bruno Mattia Bizzarri, Maria Camilla Baratto, Rebecca Pogni, Raffaele Saladino. "Stereoselective Access to Antimelanoma Agents by Hybridization and Dimerization of Dihydroartemisinin and Artesunic acid" *ChemMedChem*, **2021**, 16(14), pp. 2270–2277.
- Bizzarri B.M., Fanelli A., Kapralov M., Krasavin E., Saladino R. "Meteorite-catalyzed intermolecular trans-glycosylation produces nucleosides under proton beam irradiation". *RSC Advances*, **2021**, 11(31), pp. 19258–19264
- Di Mauro, E., Bizzarri, B.M., Saladino, R. "CHAPTER 6: The Role of Photochemistry in the Prebiotic Model of Formamide" *Comprehensive Series in Photochemical and Photobiological Sciences*, **2021**, January, 20, pp. 107 – 123.
- Zippilli, C.; Botta, L.; Bizzarri, BM; Nencioni, L; De Angelis, M; Protto, V; Giorgi, G. Baratto, M.C., Pogni, R., Saladino, R. "Laccase-catalyzed 1,4-dioxane-mediated synthesis of belladine n-oxides with anti-influenza A virus activity" *International Journal of Molecular Sciences*, **2021**, 22(3), pp. 1–14, 1337.
- Bizzarri, Bruno Mattia; Saladino, Raffaele; Delfino, Ines; Garcia-Ruiz, Juan Manuel; Di Mauro, Ernesto. "Prebiotic Organic Chemistry of Formamide and the Origin of Life in Planetary Conditions: What We Know and What Is the Future." *International Journal of Molecular Sciences*, **2021**, 22(2), pp. 1–12, 917.
- Bizzarri, Bruno Mattia; Manini, Paola; Lino, Valeria; D'Ischia, Marco; Kapralov, Michail; Krasavin, Eugene; Mrazikova, Klaudia; Sponer, Jiri; Sponer, Judit E.; Di Mauro, Ernesto; Saladino, Raffaele. "High-Energy Proton-Beam-Induced Polymerization/Oxygenation of Hydroxynaphthalenes on Meteorites and Nitrogen Transfer from Urea: Modeling Insoluble Organic Matter?" *Chemistry - A European Journal*, **2020**, 26(65), pp. 14919–14928.
- Botta, L; Filippi, S; Zippilli, C; Cesarini, S; Bizzarri, BM; Cirigliano, A; Rinaldi, T; Paiardini, A; Fiorucci, D; Saladino, R; Negri, R; Benedetti, P. "Artemisinin Derivatives with Antimelanoma Activity Show Inhibitory Effect against Human DNA Topoisomerase 1". *ACS Medicinal chemistry letters*, **2020**, 11, 1035
- Bizzarri, BM; Fanelli, A; Botta, L; Sadun, C; Gontrani, L; Ferella, F; Crucianelli, M; Saladino, R. "Dendrimer crown-ether tethered multi-wall carbon nanotubes support methyltrioxorhenium in the selective oxidation of olefins to epoxides". *RSC Advances*, **2020**, 10, 17185.
- Zippilli, C; Botta, L; Bizzarri, BM; Baratto, MC; Pogni, R; Saladino, R. "*Biomimetic synthesis of galantamine via laccase/TEMPO mediated oxidative coupling*" *RSC Advances*, **2020**, 10, 10897.
- Capecchi, E; Piccinino, D; Bizzarri, BM; Botta, L; Crucianelli, M; Saladino, R. "*Oxidative Bio-Desulfurization by Nanostructured Peroxidase Mediator System*" *Catalysts*, **2020**, 10, 310.
- Botta, L; Filippi, S; Bizzarri, BM; Zippilli, C; Meschini, R; Pogni, R; Baratto, MC; Villanova, L; Saladino, R. "*Synthesis and Evaluation of Artemisinin-Based Hybrid and Dimer Derivatives as Antimelanoma Agents*". *ACS Omega* **2020**, 5, 243.
- Bizzarri, BM; Fanelli, A; Piccinino, D; De Angelis, M; Dolfa, C; Palamara, AT; Nencioni, L; Zippilli, C; Crucianelli, M; Saladino, R. "*Synthesis of Stilbene and Chalcone Inhibitors of Influenza A Virus by SBA-15 Supported Hoveyda-Grubbs Metathesis*". *Catalysts*, **2019**, 9, 984.
- Crucianelli, M; Bizzarri, BM; Saladino, R. "*SBA-15 Anchored Metal Containing Catalysts in the Oxidative Desulfurization Process*". *Catalysts*, **2019**, 9, 983.
- E. Capecchi, D. Piccinino, B. M. Bizzarri, D. Avitabile, C. Pelosi, C. Colantonio, G. Calabrò, R. Saladino. "Enzyme-Lignin Nanocapsules Are Sustainable Catalysts and Vehicles for the Preparation of Unique Polyvalent Bioinks". *Biomacromolecules*, **2019**, 20, 5, 1975-1988. DOI: 10.1021/acs.biomac.9b00198.

- B. M. Bizzarri, L. Botta, D. Aversa, N. B. Mercuri, G. Poli, A. Barbieri, N. Berretta, R. Saladino. "L-DOPA-quinone mediated recovery from GIRK channel firing inhibition in dopaminergic neurons". *ACS Medicinal Chemistry Letters* **2019**, 10, 4, 431-436. DOI: 10.1021/acsmchemlett.8b00477.
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- R. Meschini, D. D'Eliseo, S. Filippi, L. Bertini, B. M. Bizzarri,* L. Botta, R. Saladino, F. Velotti.* "TYROSINASE-TREATED HYDROXYTYROSOL-ENRICHED OLIVE VEGETATION WASTE WITH INCREASED ANTIOXIDANT ACTIVITY PROMOTES AUTOPHAGY AND INHIBITS THE INFLAMMATORY RESPONSE IN HUMAN THP-1 MONOCYTES". *J. Agric. Food Chem.* 2018, 66, 46, 12274-12284. DOI: 10.1021/acs.jafc.8b03630.
- L. Botta, R. Saladino, B. M. Bizzarri, B. Cobucci-Ponzano, R. Iacono, R. Avino, S. Caliro, A. Carandente, F. Lorenzini, A. Tortora, E. Di Mauro, M. Moracci, M. "Formamide-based prebiotic chemistry in the Phlegrean Fields". *Advances in Space Research* 62 (2018) 2372–2379. DOI: 10.1016/j.asr.2017.07.017
- D. Piccinino, E. Capecchi, L. Botta, B.M. Bizzarri, P. Bollella, R. Antiochia, R. Saladino. "Layer-by-layer preparation of microcapsules and nanocapsules of mixed polyphenols with high antioxidant and UV-shielding properties". *Biomacromolecules*, **2018**, 19 (9), pp 3883–3893 DOI: 10.1021/acs.biomac.8b01006.
- B. M. Bizzarri, I. Abdalghani, L. Botta, A. R. Taddei, S. Nisi, M. Ferrante, M. Passacantando, M. Crucianelli and R. Saladino. "Iodoxybenzoic Acid Supported on Multi Walled Carbon Nanotubes as Biomimetic Environmental Friendly Oxidative Systems for the Oxidation of Alcohols to Aldehydes". *Nanomaterials* **2018**, 8, 516; doi:10.3390/nano8070516
- B.M. Bizzarri, L. Botta, M. I. Perez-Valaverde, R. Saladino, E. Di Maruro and J.M. Garcia-Ruiz. "Silica Metal Oxide Vesicles Catalyze Comprehensive Prebiotic Chemistry". *Chemistry a European Journal*, **2018**, 24, 1-8. DOI: 10.1002/chem.201706162.
- B. M. Bizzarri, L. Botta, E. Capecchi, I. Celestino, P. Checconi, A. T. Palamara, L. Nencioni, and R. Saladino. "Regioselective IBX mediated synthesis of coumarin derivatives with antioxidant and anti-influenza activities". *Journal of Natural Product* **2017**, 80(12), 3247-3254s. DOI: 10.1021/acs.jnatprod.7b00665
- R. Saladino, B.M. Bizzarri, L. Botta, J. Šponer, J.E. Šponer, T. Georgelin, M. Jaber, B. Rigaud, M. Kapralov, G.N. Timoshenko, A. Rozanov, E. Krasavin, A.M. Timperio, E. Di Mauro. "Proton irradiation: A key to the challenge of N-glycosidic bond formation in a prebiotic context". *Scientific Reports*, **2017**, 7(1), 14709. DOI: 10.1038/s41598-017-15392-8.
- L. Botta, B.M. Bizzarri, D. Piccinino, T. Fornaro, J.R. Brucato, R. Saladino. "Prebiotic synthesis of carboxylic acids, amino acids and nucleic acid bases from formamide under photochemical conditions", *European Physical Journal Plus*, **2017**, 132 (7), 317. DOI: 10.1140/epjp/i2017-11631-5.
- L. Botta, B.M. Bizzarri, M. Crucianelli, R. Saladino. "Advances in biotechnological synthetic applications of carbon nanostructured systems." *Journal of Materials Chemistry*, **2017** 5(32), pp. 6490-6510.
- B. M. Bizzarri, A. Martini, F. Serafini, D. Aversa, D. Piccinino, L. Botta, N. Berretta, E. Guatteo, R. Saladino. "Tyrosinase mediated oxidative functionalization in the synthesis of DOPA-derived peptidomimetics with anti-Parkinson activity". *RSC Advance Volume*, **2017**, 7 (33), pp 20502-20509.
- R. Saladino, G. Botta, B. M. Bizzarri, E. Di Mauro, and J.M. Garcia Ruiz. "A Global Scale Scenario for Prebiotic Chemistry: Silica-Based Self-Assembled Mineral Structures and Formamide. *Biochemistry*, **2016**, 55 (19), pp 2806–2811 DOI: 10.1021/acs.biochem.6b00255.

	<p>-C. Tintori, A. Brai, M.C. Dasso Lang, D. Deodato, A.M. Greco, B.M. Bizzarri, L. Cascone, A. Casian, C. Zamperini, E. Dreassi, E. Crespan, G. Maga, G. Vanham, E.R. Ceresola, F. Canducci, K. Ariën, and M. Botta. "Development and in vitro evaluation of a microbicide gel formulation for a novel non-nucleoside reverse transcriptase inhibitor belonging to the N-dihydro-alkyloxy-benzyl-oxopyrimidines (N-DABOs)family". <i>Journal of Medicinal Chemistry</i>, 2016, 59 (6), pp 2747–2759.</p> <p>-Bizzarri, B.M., Pieri, C., Botta, G., Arabuli, L., Mosesso, P., Cinelli, S., Schinoppi, A., Saladino, R.. "Synthesis and antioxidant activity of DOPA peptidomimetics by a novel IBX mediated aromatic oxidative functionalization". <i>RSC Advances</i> Volume 5, Issue 74, 2015, Pages 60354-60364.</p> <p>-Bizzarri, B.M., Rotelli L., Botta, G., Saladino R. "Current advances in DOPA and DOPA-peptidomimetics: chemistry, applications and biological activity". <i>Current Medicinal Chemistry</i> 2015;22(36):4138-65.</p> <p>-Botta, G., Bizzarri, B.M.,Garozzo, A., Timpanaro, R., Bisignano, B., Amatore, D., Palamara, A.T., Nencioni, L., Saladino, R. "Carbon nanotubes supported tyrosinase in the synthesis of lipophilic hydroxytyrosol and dihydrocaffeoyl catechols with antiviral activity against DNA and RNA viruses". <i>Bioorganic & Medicinal Chemistry</i> 23 (2015) 5345–5351.</p>
<p>References</p>	<p>Prof. Raffaele Saladino, Università della Tuscia, Dipartimento di Agrobiologia ed Agrochimica, Via S. Camillo de Lellis s.n.c., 01100 Viterbo, Italy Tel. 39+0761-357284 Fax: 39+0761-357242 e-mail: saladino@unitus.it http://saladinoraffaele.weebly.com</p> <p>Prof. Ernesto Di Mauro, Dipartimento di biologia e biotecnologie "CHARLES DARWIN". Università La Sapienza, Roma- Mail: ernesto.dimauro@uniroma1.it</p>