

PERSONAL INFORMATION

Dr. Bartolini Desirée

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR

Scientific research in the field of Biochemistry and Nutrition, in particular:

- Laboratory of Clinical Biochemistry
- Research for the development of new drugs
- Laboratory of Nutrition
- Laboratory of Cellular and Molecular Oncology
- Human Cellular Therapy Laboratory
- Cell morphology
- Neurotrophic factors

WORK EXPERIENCE

...May 2021-today

Annual research Fellowship (Project FCPGPANDEMIACOV19CRUCIANI)

University of Perugia, Dept. of Chemistry, Biology and Biotechnology (CBB), University of Perugia
Via Elce di sotto, 06126 Perugia (Italy).

Head of Laboratory: Prof. Cruciani Gabriele

Project title: **"Biomolecular investigation and development of new therapeutic agents for SARS-CoV-2 infection."**

Business or sector cell morphology, applied biology & biochemistry

May 2020-April 2021

Annual research Fellowship (7FCRPG19_FG project)

University of Perugia, Dept. of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences.

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

Head of Laboratory: Prof. Galli Francesco

Project title: **"Fragilità nel soggetto obeso affetto da insulino-resistenza: il ruolo della senescenza staminale a livello del tessuto adiposo" (Bando Fondazione Cassa di Risparmio Perugia "Invecchiamento. Cura e prevenzione della fragilità: aspetti biologici, fisiopatologici e problematiche cliniche")**

Business or sector cell and applied biology & biochemistry

November 2019-June 2020

Contract of Collaboration (Pharmacy POT project)

University of Perugia, Dept. of Pharmaceutical Sciences

Head of project: Prof. Cecchetti Violetta

Business or sector Tutor activities in animal biology

April 2019-April 2020

Annual research Fellowship (V.I.S.T.A. project – PSR 2014-2020)

University of Perugia, Dept. of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences.

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

Head of Laboratory: Prof. Galli Francesco

Project title: **"V.I.S.T. A. - Vetrina Informatica per Sistemi di Trasparenza nell'Agroalimentare (Informatics for food-print data monitoring and accessibility)"**

Business or sector Nutrition and biochemistry

April 2017-March 2019

Two-years FIRC-AIRC Fellowship

University of Perugia, Dept. of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences.

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

▪ Head of Laboratory: Prof. Galli Francesco

▪ Project title: **“Therapeutic targeting of the Glutathione S-transferase interactome in human hepatocarcinoma”**

Business or sector Cancer and Biochemistry

November 2016-March 2017

Research Fellowship

University of Perugia, Dept. of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences.

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

▪ Head of Laboratory: Prof. Galli Francesco

▪ Project title: **“Promotion of consumer's health:nutritional valorization of Italian agrofood traditional products ”**

Business or sector Nutrition

November 2015-October2016

Annual Research Fellowship

University of Perugia, Dept. of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences.

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

▪ Head of Laboratory: Prof. Galli Francesco

▪ Project title: **“Promotion of consumer's health: nutritional valorization of Italian agrofood traditional products ”**

Business or sector Nutrition

January 2013-October 2015

PhD Student fellowship

University of Perugia, Dept. of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

▪ *Head of Laboratory: Dr. Francesco Galli*

Business or sector Cell Biology, Nutrition and Clinical Biochemistry

October 1 2012-
December 31 2012

Annual Fellowship (prot. 26185).

IRCCS "Tecnologie Avanzate e Modelli Assistenziali in Oncologia" Arcispedale S. Maria Nuova (Laboratory of Molecular Biology), V.le Risorgimento, 80 – 42123, Reggio Emilia

▪ *Head of Laboratory: Dr.ssa Albini Adriana*

▪ Project title: “Anti-angiogenesis in the resistance era: delivery, microenvironment modulation of stem cells and angioprevention.”

Business or sector Translational Research in Oncology

August 1 2011-
September 30 2012

Annual Contract of Collaboration

Fondazione MultiMedica Onlus, Science and Technology Pole MultiMedica, Laboratory of Oncology Research, Milan, Italy

- *Head of Laboratory: Dr.ssa Albini Adriana*
- *Project title: "Anti-angiogenesis in the resistance era: delivery, microenvironment modulation of stem cells and angioprevention".*

Business or sector Oncology research

EDUCATION AND TRAINING

January 2020-today

Training activity at the Human Anatomy, Clinical and Forensic Laboratory of the Department of Surgical and Biomedical Sciences coordinated by Prof. Mario Rende

PRINCIPAL SUBJECTS/OCCUPATIONAL SKILLS COVERED: IMMUNOFLUORESCENCE, IMMUNOHISTOCHEMISTRY (IHC), CELL MORPHOLOGY ANALYSIS, ELISA AND STUDY OF NEUROTROPHIC FACTORS.

February 2020

Theoretical and practical school of proteomics, Italian Proteomic Association (ItPA), Ceinge, Naples (Italy)

March 2018-Sept 2018

“Percorso FIT (24 CFU)”, University of Perugia.

January 2016

PhD Graduation

University of Perugia, Italy

- **Thesis title:** “Glutathione S-transferase P at the crossroad between redox signaling and the Nrf-2 mediated stress response”
- **Tutor:** Prof. Francesco Galli;
- **Principal subjects/occupational skills covered:** Enzymatic assays (GST assay), Ellman Assay and enzyme inhibition assays. MTT assay, Colony forming assay, affinity chromatography, neutral red assay, ORO assay, DCFH-DA assay, Real Time-PCR, PCR, RNA and DNA extraction, protein extraction, electrophoresis, western blotting, co-immunoprecipitation, immunofluorescence.

April 2015-May 2015

APE-learning training course on “Health and work safety” for laboratory animal facility

January 2013-October 2015

PhD Student

University of Perugia, Dept. of Internal Medicine, Section of Applied Biochemistry and Nutrition Sciences.

Istituti biologici di via del Giochetto, 06126 Perugia (Italy).

- Skills acquired:
- **Molecular Biology techniques:** Extraction of DNA and RNA from tissue, and cell pellets from paraffin-embedded samples, purification and quantification. Separation of nucleic acids on gel agarose, PCR (Polymerase Chain Reaction), RT-PCR (Reverse Transcriptase-Polymerase Chain Reaction), Real-time RT-PCR. Extraction of proteins from tissue and cell pellets purification and quantification, SDS-PAGE, Western blotting, preparation of solutions.
- **Techniques of cell biology:** Basic techniques, including the preparation of culture media, seeding and expansion of cell lines, freezing and thawing.
- **Techniques of clinical biochemistry:** basic techniques of clinical biochemistry.
- **Equipment:** Use of centrifuges, autoclaves, spectrophotometer, fluorometer, thermal cyclers, HT7900 Fast Real-Time PCR System, conventional electrophoresis equipment, for Western Blotting, hoods and equipment for cell biology.
- My research activity, conducted under the supervision of Prof. Galli Francesco is documented by 7 international publications.

September 2012-January 2013

Student in Clinical Biochemistry School

University of Milan, Italy

- Skills acquired: Clinical Biochemistry, Cell Biology and Biochemistry of Nutrition

July 2011

State Examination for Professional Qualification in Biology (Section A)

University of Perugia (Italy).

- Skills acquired: Biochemistry, Cell Biology, Biochemistry of Nutrition, Physiology etc.

February 2011

Master Degree in Pharmaceutical Biotechnology

Final mark **110/ 110**
summa cum laude

University of Perugia, Italy

- **Experimental thesis title:** "PhSeZnCl: effects on redox signaling and MAPK/ERK- dependent cell survival response in Mouse Embryonic Fibroblasts KO for GSTpi"
- **Supervisor:** Prof. Francesco Galli and Prof. Santi Claudio;
- **Principal subjects/occupational skills covered:** Organic synthesis, use of HPLC and GAS-mass (GC/MS), enzymatic assays (GST assay), Ellman Assay and enzyme inhibition assays. MTT assay, DCFH-DA assay, Real Time-PCR, PCR, RNA and DNA extraction, protein extraction, western blotting.

January 2010- February 2011

Internship for thesis project

Department of Internal Medicine– section applied biochemistry and nutritional sciences, University of Perugia, Italy

- **Supervisor:** Prof. Francesco Galli;
- **Principal subjects/occupational skills covered:** Organic synthesis, use of HPLC and GAS-mass (GC/MS), enzymatic assays (GST assay), Ellman Assay and enzyme inhibition assays. MTT assay, DCFH-DA assay, Real Time-PCR, PCR, RNA and DNA extraction, protein extraction, western blotting.

February 2008

Bachelor Degree in Biotechnology

Final mark **104/110**

University of Perugia, Italy

- **Thesis activity:** "Inhibition of TGF-beta signaling as a new antineoplastic strategy "
- **Supervisor:** Dr.ssa Belladonna Maria Laura

May 2007- July 2007

Internship for thesis project

Department of Experimental Medicine and Biochemical Sciences-section Pharmacology, University of Perugia, Italy

- **Supervisor:** Prof. Belladonna Maria Laura;
- **Principal subjects/occupational skills covered:** PCR, RNA and DNA extraction, protein extraction, western blotting

June 2004

High School Diploma

Final mark **93/100**

Scientific High School "R. Donatelli", Terni, Italy

- **PNI section (experimental section informatics and physics)**

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Good	Good	Discrete	Discrete	Good
Spanish	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient

Communication skills

- , High level motivation, perseverance, sense of initiative and disposed in solving problems, good interpersonal skills and ability to work in a team.

Organisational / managerial skills	• Good ability of management and organization of experiments for scientific research projects.
Job-related skills	Laboratory techniques: Primary and immortalized cell cultures (in suspension and in adhesion), cell adhesion assay, cell proliferation assay (MTT, Tunel assay; ATP assays, etc.), study of apoptosis, autophagy, cell cycle by flow cytometry, measurement of intracellular and extracellular ROS (DCFH-DA test, Amplex Red assays), chemotaxis and chemo-invasion assays, <i>in vitro</i> angiogenesis assays, zimography, protein extraction, western blot, dot-blot, DNA/RNA extraction, PCR, RT-PCR, enzymatic assays (spectrofluorimetric assays), thiol analysis with HPLC or flow cytometry, IHC assay, immunofluorescence (IF), organic synthesis. Basic skills in virology techniques such as plaque assay, CPE assay, detection of viral nucleic acid (probes or amplification), virus neutralization (VN) • Enzyme linked immunosorbent assay (ELISA) • Indirect fluorescent antibody (IFA) • Agar-gel immunodiffusion (AGID). Basic skills in the use of HPLC and GAS-mass (GC/MS).
Computer skills	Informatics' knowledge: Windows platforms; Windows Office suite (Word, Excel, Power Point), Internet Explorer and Outlook Express, GraphPad Prism, Adobe Photoshop, ChemDraw, Origin Lab, ImageJ, Gel-Pro Analyzer, EndNote. Bioinformatics Knowledge: use of common databases (NCBI, EBI, SciFinder, Scholar, Huger Navigator)
Other skills	• Teaching activity: didactics support for Biochemical Methodologies Applied and Fundamentals of dietology courses for Human Nutrition Science and Pharmacy (University of Perugia). - Didactics support for Animal Biology courses for Pharmacy and C.T.F. (University of Perugia). - Didactics support for Human Anatomy courses for Medicine and Pharmacy (University of Perugia).
Driving licence	• B
Scientific Societies member	Society for Free Radical Research --Europe (SFRR-E) Italian Proteomics Association (ItPA)
Editorial Board member	Amino Acids (Springer)

Publications

- 1) Solinas M, Massi P, Cantelmo AR, Cattaneo MG, Cammarota R, **Bartolini D**, Cinquina V, Valenti M, Vicentini LM, Noonan DM, Albini A, Parolaro D. Cannabidiol inhibits angiogenesis by multiple mechanisms. *Br J Pharmacol*. 2012 Nov;167(6):1218-31. doi: 10.1111/j.1476-5381.2012.02050.x. PubMed PMID: 22624859; PubMed Central PMCID: PMC3504989. IF=4.409
- 2) Ruggiero L., Sogno I., Focaccetti C., **Bartolini D.**, Magnani E., Principi E., Noonan D.M., Albini A. Diet derived compounds in chemoprevention: Inflammatory angiogenesis and the tumor microenvironment as targets. Accepted for publication on. *Current Angiogenesis* (2012 April 30; 1(3): 206-214) (New in 2012)
- 3) Puccio G, Brambilla P, Conti M, **Bartolini D**, Noonan D, Albini A. Surface-activated chemical ionization-electrospray mass spectrometry in the analysis of urinary thiodiglycolic acid. *Rapid Commun Mass Spectrom*. 2013 Feb 15;27(3):476-80. doi: 10.1002/rcm.6471. PubMed PMID: 23280980. IF=2.846
- 4) Piroddi M, **Bartolini D**, Cifollilli S, Galli F. Nondialyzable uremic toxins. *Blood Purif*. 2013;35 Suppl 2:30-41. doi: 10.1159/000350846. Epub 2013 May 3. PubMed PMID: 23676834. IF=2.104
- 5) Murdolo G, **Bartolini D**, Tortoioli C, Piroddi M, Iuliano L, Galli F. Lipokines and oxysterols: Novel adipose-derived lipid hormones linking adipose dysfunction and insulin resistance. *Free Radic Biol Med*. 2013 Aug 16;65C:811-820.
- 6) Galli F, Piroddi M, **Bartolini D**, Cifollilli S, Buoncristiani E, Ricci G, Buoncristiani U. Blood thiol status and erythrocyte glutathione-S-transferase in chronic kidney disease patients on treatment with frequent (daily) hemodialysis. *Free Radic Res*. 2013 Nov 5. [Epub ahead of print] PubMed PMID: 24192047.
- 7) Luchetti F, Canonico B, **Bartolini D**, Arcangeletti M, Cifollilli S, Murdolo G, Piroddi M, Papa S, Reiter RJ, Galli F. Melatonin regulates mesenchymal stem cell differentiation: a review. *J Pineal Res*. 2014 Mar 20. IF=7.304
- 8) **Bartolini D**, Piroddi M, Tidei C, Giovagnoli S, Pietrella D, Manevich Y, Tew KD, Giustarini D, Rossi R, Townsend DM, Santi C, Galli F. Reaction kinetics and targeting to cellular glutathione S-transferase of the glutathione peroxidase mimetic PhSeZnCl and its d,l-poly(lactide) microparticle formulation. *Free Radic Biol Med*. 2014 Oct 18;78C:56-65. doi: 10.1016/j.freeradbiomed.2014.10.008.
- 9) Focaccetti C, Bruno A, Magnani E, **Bartolini D**, Principi E, Dallaglio K, Bucci EO, Finzi G, Sessa F, Noonan DM, Albini A. Effects of 5-Fluorouracil on Morphology, Cell Cycle, Proliferation, Apoptosis, Autophagy and ROS Production in Endothelial Cells and Cardiomyocytes. *PLoS One*. 2015 Feb 11;10(2):e0115686. doi:10.1371/journal.pone.0115686. eCollection 2015.
- 10) **Bartolini D**, Comodi J, Piroddi M, Incipini L, Sancineto L, Santi C, Galli F. Glutathione S-transferase pi expression regulates the Nrf2-dependent response to hormetic diselenides. *Free Radic Biol Med*. 2015 Jul 4. pii: S0891-5849(15)00307-X. doi: 10.1016/j.freeradbiomed.2015.06.039.
- 11) Cifollilli S, Wallert M, **Bartolini D**, Krauth V, Werz O, Piroddi M, Sebastiani B, Torquato P, Lorkowski S, Birringer M, Galli F. Human serum determination and in vitro anti-inflammatory activity of the vitamin E metabolite α -(13'-hydroxy)-6-hydroxychroman. *Free Radic Biol Med*. 2015 Oct 8.
- 12) **Bartolini D**, Galli F. The functional interactome of GSTP: A regulatory biomolecular network at the interface with the Nrf2 adaption response to oxidative stress. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2016 Apr 15;1019:29-44. doi: 10.1016/j.jchromb.2016.02.002. Epub 2016 Feb 4. Review.
- 13) Torquato P, Ripa O, Giusepponi D, Galarini R, **Bartolini D**, Wallert M, Pellegrino R, Cruciani G, Lorkowski S, Birringer M, Mazzini F, Galli F. Analytical strategies to assess the functional metabolome of vitamin E. *J Pharm Biomed Anal*. 2016 May 30;124:399-412. doi: 10.1016/j.jpba.2016.01.056. Epub 2016 Feb 3. Review.
- 14) Bassani B, **Bartolini D**, Pagani A, Principi E, Zollo M, Albini A, Noonan DM, Bruno A. Fenretinide (4-HPR) targets caspase-9, ERK 1/2 and the Wnt3a/b-catenin pathway in medulloblastoma cells and medulloblastoma cell spheroids. *PLoS One*. 2016 Jul 1;11(7):e0154111.
- 15) Murdolo G, Piroddi M, Tortoioli C, **Bartolini D**, Schmelz M, Luchetti F, Canonico B, Papa S, Zerbini C, Iuliano L, Galli F. Free radical-derived oxysterols: novel adipokines modulating adipogenic differentiation of adipose precursor cells. *J Clin Endocrinol Metab*. 2016 Oct 6:jc20162918.

- 16) Russo A, **Bartolini D**, Torquato P, Giusepponi D, Barola C, Galarini R, Birringer M, Lorkowski S, Galli F. CYP4F2 repression and a modified alpha-tocopherol (vitamin E) metabolism are two independent consequences of ethanol toxicity in human hepatocytes. *Toxicol In Vitro*. 2017 Apr;40: 124-133. doi: 10.1016/j.tiv.2016.12.014. Epub 2017 Jan 3. IF: 3.338
- 17) Giusepponi D., Torquato P., **Bartolini D.**, Piroddi M., Birringer M., Lorkowski S., Libetta C., Cruciani G., Moretti S., Saluti G., Galli F., Galarini R. Determination of tocopherols and their metabolites by liquid-chromatography coupled with tandem mass spectrometry in human plasma and serum. *Talanta*. 2017 Aug 1;170:552-561. doi: 10.1016/j.talanta.2017.04.030. Epub 2017 Apr 12. IF: 4.035
- 18) **Bartolini D.** Torquato P, Barola C, Russo A, Rychlicki C, Giusepponi D, Bellezza G, Sidoni A, Galarini R, Svegliati-Baroni G, Galli F. Nonalcoholic fatty liver disease impairs the cytochrome P-450-dependent metabolism of α -tocopherol (vitamin E). *J Nutr Biochem*. 2017 Jun 7; 47:120-131. doi: 10.1016/j.jnutbio.2017.06.003. IF: 4.518.
- 19) Murdolo G, **Bartolini D**, Tortoioli C, Piroddi M, Torquato P, Galli F. Selenium and Cancer Stem Cells. *Adv Cancer Res*. 2017; 136:235-257. Epub 2017 Oct 12. PubMed PMID: 29054420.
- 20) **Bartolini D**, Sancineto L, Fabro de Bem A, Tew KD, Santi C, Radi R, Toquato P, Galli F. Selenocompounds in Cancer Therapy: An Overview. *Adv Cancer Res*. 2017; 136:259-302. PubMed PMID:29054421.
- 21) Lepri S, Valeri A, Buratta S, Ceccarelli M, **Bartolini D**, Ruzziconi R, Goracci L. Synthesis and phospholipidosis effect of a series of cationic amphiphilic compounds: a case study to evaluate in silico and in vitro assays. *Med Chem Res*. 2017 Oct. 25. DOI 10.1007/s00044-017-2093-5. IF:1.277
- 22) **Bartolini D.**, Dallaglio K., Torquato P., Piroddi M., Galli F. Nrf2/p62 autophagy pathway and its response to oxidative stress in hepatocellular carcinoma. *Translational Research*. In Press, Accepted Manuscript. Available online 29 November 2017. <https://doi.org/10.1016/j.trsl.2017.11.007>. IF:4.652
- 23) Ambrogini P, Albertini MC, Betti M, Galati C, Lattanzi D, Savelli D, Di Palma M, Saccomanno S, **Bartolini D**, Torquato P, Ruffolo G, Olivieri F, Galli F, Palma E, Minelli A, Cuppini R. Neurobiological Correlates of Alpha-Tocopherol Antiepileptogenic Effects and MicroRNA Expression Modulation in a Rat Model of Kainate-Induced Seizures. *Mol Neurobiol*. 2018 Feb 22. doi:10.1007/s12035-018-0946-7. IF:6.190
- 24) Russo A*, **Bartolini D***, Mensà E, Torquato P, Albertini MC, Olivieri F, Testa R, Rossi S, Piroddi M, Cruciani G, De Feo P, Galli F. Physical Activity Modulates the Overexpression of the Inflammatory miR-146a-5p in Obese Patients. *IUBMB Life*. 2018 Sep 13. doi: 10.1002/iub.1926. *equally contribution
- 25) **Bartolini D.**, Torquato P., Piroddi M. and Galli F. Targeting Glutathione S-transferase P and its Interactome with Selenium Compounds in Cancer Therapy. *Biochim Biophys Acta Gen Subj*. 2018 Oct 2. pii: S0304-4165(18)30311-8. doi:10.1016/j.bbagen.2018.09.023.
- 26) Torquato P, **Bartolini D**, Giusepponi D, Piroddi M, Sebastiani B, Saluti G, Galarini R, Galli F. Increased plasma levels of the lipoperoxyl radical-derived vitamin E metabolite α -tocopheryl quinone are an early indicator of lipotoxicity in fatty liver subjects. *Free Radic Biol Med*. 2018 Nov 30. pii: S0891-5849(18)31747-7.
- 27) Scirè A, Cianfruglia L, Minelli C, **Bartolini D**, Torquato P, Principato G, Galli F, Armeni T. Glutathione compartmentalization and its role in glutathionylation and other regulatory processes of cellular pathways. *Biofactors*. 2018 Dec 18. doi: 10.1002/biof.1476.
- 28) Ambrogini P, Torquato P, **Bartolini D**, Albertini MC, Lattanzi D, Palma MD, Marinelli R, Betti M, Minelli A, Cuppini R, Galli F. Excitotoxicity, neuroinflammation and oxidant stress as molecular bases of epileptogenesis and epilepsy-derived neurodegeneration: The role of vitamin E. *Biochim Biophys Acta Mol Basis Dis*. 2019 Jan 28. pii: S0925-4439(19)30032-8. doi: 10.1016/j.bbadis.2019.01.026.
- 29) Torquato P, Giusepponi D, Alisi A, Galarini R, **Bartolini D**, Piroddi M, Goracci L, Di Veroli A, Cruciani G, Crudele A, Nobili V, Galli F. Nutritional and lipidomics biomarkers of docosahexaenoic acid-based multivitamin therapy in pediatric NASH. *Sci Rep*. 2019 Feb 14;9(1):2045.

- 30) **Bartolini D.**, Bührmann M., Barreca M.L., Manfroni G.; Cecchetti V.; I Rauh D. and Galli F. Co-crystal structure determination and cellular evaluation of 1,4-dihydropyrazolo[4,3-c] [1,2] benzothiazine 5,5-dioxide p38 α MAPK inhibitors. BBRC. Biochem Biophys Res Commun. 2019 Feb 26.
- 31) **Bartolini D.**, Wang Y, Zhang J, Giustarini D, Rossi R, Wang GY, Torquato P, Townsend DM, Tew KD, Galli F. A seleno-hormetine protects bone marrow hematopoietic cells against ionizing radiation-induced toxicities. PLoS One. 2019 Apr 29;14(4): e0205626. doi: 10.1371/journal.pone.0205626.
- 32) Giusepponi D, Galarini R, Barola C, Torquato P, **Bartolini D.**, Moretti S, Saluti G, Gioiello A, Libetta C, Galli F. LC-MS/MS assay for the simultaneous determination of tocopherols, polyunsaturated fatty acids and their metabolites in human plasma and serum. Free Radic Biol Med. 2019 Apr 19. pii: S0891-5849(18)32425-0. doi: 10.1016/j.freeradbiomed.2019.04.017.
- 33) Svegliati-Baroni G, Pierantonelli I, Torquato P, Marinelli R, Ferreri C, Chatgililoglu C, **Bartolini D.**, Galli F. Lipidomic biomarkers and mechanisms of lipotoxicity in non-alcoholic fatty liver disease. Free Radic Biol Med. 2019 May 29. pii: S0891-5849(19)30326-0.
- 34) Knani L*, **Bartolini D ***, Kechiche S, Tortoioli C, Murdolo G, Moretti M, Messaoudi I, Reiter RJ, Galli F. Melatonin prevents cadmium-induced bone damage: first evidence on an improved osteogenic/adipogenic differentiation balance of mesenchymal stem cells as underlying mechanism. J Pineal Res. 2019 Jul 24: e12597. doi: 10.1111/jpi.12597. * equally contribution.
- 35) **Bartolini D.**, Tew KD, Marinelli R, Galli F, Wang GY. Nrf2-modulation by seleno-hormetic agents and its potential for radiation protection. Biofactors. 2019 Oct 16.
- 36) **Bartolini D.**, Giustarini D, Pietrella D, Rossi R, Galli F. Glutathione S-transferase P influences the Nrf2-dependent response of cellular thiols to seleno-compounds. Cell Biol Toxicol. 2020 Feb 18. doi: 10.1007/s10565-020-09517-5.
- 37) **Bartolini D***, De Franco F*, Torquato P, Marinelli R, Cerra B, Ronchetti R, Schön A, Fallarino F, De Luca A, Bellezza G, Ferri I, Sidoni A, Walton WG, Pellock SJ, Redinbo MR, Mani S, Pellicciari R, Gioiello A, Galli F. Garcinoic Acid Is a Natural and Selective Agonist of Pregnane X Receptor. J Med Chem. 2020 Mar 11. doi: 10.1021/acs.jmedchem.0c00012. * equally contribution.
- 38) Galli F, Reglero G, **Bartolini D.**, Visioli F. Better prepare for the next one. Lifestyle lessons from the COVID-19 pandemic. PharmaNutrition. 2020 May 6:100193. doi: 10.1016/j.phanu.2020.100193.
- 39) Marinelli R, Torquato P, **Bartolini D.**, Mas-Bargues C, Bellezza G, Gioiello A, Borrás C, De Luca A, Fallarino F, Sebastiani B, Mani S, Sidoni A, Vina J, Leri M, Bucciantini M, Nardiello P, Casamenti F, Galli F. Garcinoic acid prevents β -amyloid (A β) deposition in the mouse brain. J Biol Chem. 2020 July 2:jbc.RA120.013303.
- 40) Acito M*, **Bartolini D***, Ceccarini MR, Russo C, Vannini S, Dominici L, Codini M, Villarini M, Galli F, Beccari M, Moretti M. Imbalance in the antioxidant defence system and pro-genotoxic status induced by high glucose concentrations: in vitro testing in human liver cells, Toxicology in Vitro, 2020, Sep 14:105001, ISSN 0887-2333, <https://doi.org/10.1016/j.tiv.2020.105001>. * equally contribution.
- 41) Giustarini D., Galvagni F., Dalle-Donne I., Milzani A., Lucattelli M., De Cunto G., **Bartolini D.**, Galli F., Santucci A., and Rossi R.. Anethole Dithiolethione Increases Glutathione in Kidney by Inhibiting γ -Glutamyltranspeptidase: Biochemical Interpretation and Pharmacological Consequences. Oxidative Medicine and Cellular Longevity, Volume Sept 28 2020, Article ID 3562972,
- 42) **Bartolini D.**, Marinelli R, Giusepponi D, Galarini R, Barola C, Stabile AM, Sebastiani B, Paoletti F, Betti M, Rende M, Galli F. Alpha-Tocopherol Metabolites (the Vitamin E Metabolome) and Their Interindividual Variability during Supplementation. Antioxidants (Basel). 2021 Jan 25;10(2):173. doi: 10.3390/antiox10020173.
- 43) Giustarini D, Santucci A, **Bartolini D.**, Galli F, Rossi R. The age-dependent decline of the extracellular thiol-disulfide balance and its role in SARS-CoV-2 infection. Redox Biol. 2021 Feb 17; 41:101902. doi: 10.1016/j.redox.2021.101902.
- 44) Gidari A., Sabbatini S., Bastianelli S., Pierucci S., Busti C., **Bartolini D.**, Stabile A.M., Monari C., Galli F., Rende M., Cruciani C. and Francisci D. SARS-CoV-2 Survival on Surfaces and the Effect of

UV-C Light. Viruses 2021, 13, 408. <https://doi.org/10.3390/v13030408>

From Scopus:

H-index:17

Patents

Application Number MI2013A000536 for Patent entitled: "Synthetic Analogues of Xanthohumol"-
Year 2013

Book Chapters

1) Francesco Galli^{1a}, Massimo Conese², Luigi Maiuri^{2,3}, Roberto Gambari⁴, **Desirée Bartolini**¹, Marta Piroddi¹, Silvia Cifollilli¹, Giulio Cabrini^{5,a,b} Book: Oxidative Stress in Applied Basic Research and Clinical Practice; Studies on Respiratory Disorders (Humana Press; Springer), Chapter 1: Introduction to Oxidative Stress and Antioxidant Therapy in Respiratory Disorder, Pages 1-26 (2013).

2) **Bartolini Desirée**, Cifollilli Silvia, Piroddi Marta, Murdolo Giuseppe, Tortoli Cristina, Galli Francesco. Chapter: Biochemistry and nutrition of selenium: from inorganic forms to endogenous proteins; Page: 268-327 (60). Book: Organoselenium Chemistry: Between Synthesis and Biochemistry, Bentham eBook.

3) Pierangelo Torquato, Danilo Giusepponi, Roberta Galarini, **Desirée Bartolini**, Marta Piroddi, and Francesco Galli. Chapter 15: Analysis of Vitamin E Metabolites. Book: Vitamin E: Chemistry and Nutritional Benefits. Published by the Royal Society of Chemistry (RSC). Editor: Etsuo Niki. Print ISBN:978-1-78801-240-9; ePub eISBN:978-1-78801-733-6;

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- 3) Focaccetti C., Noonan D.M., **Bartolini D.**, Anzà C., Albini A. Mechanisms of Fluoropyrimidines-induced cardiac toxicity: an example of cardio-oncology. 43th National Congress ANMCO, Florence, Italy, 30 May - 02 June 2012 (POSTER).
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- 5) Cantelmo A. R.; Solinas M.; Massi P.; Cattaneo M. G.; Cammarota, R.; **Bartolini D.**; Cinquina V.; Valenti M.; Vicentini L.; Noonan D.; Albini A.; Parolaro D. CANNABIDIOL AS A POTENT ANTI-ANGIOGENIC DRUG. 54th Annual Meeting of the Italian Cancer Society, 1-4 October 2012, Istituto Ortopedico Rizzoli, Bologna. (POSTER Z14 pag.129 abstract book)
- 6) Albini A.^{1,2}, Cantelmo A.R.¹, Focaccetti C.², **Bartolini D.**¹, Bruno A.¹, Dallaglio K.², Noonan D.M.³, THE TUMOR MICROENVIRONMENT AS TARGET FOR CANCER THERAPY AND CHEMOPREVENTION: MATRIX METALLO-PROTEASES AND BEYOND. XXXII Riunione Società Italiana per lo Studio del Connettivo, University of Bologna, October 20-21, 2012. (Oral Presentation October 21, 2012).
- 7) CANTELMO* A.R., Solinas* M., Massi* P., Cattaneo* M. G., Cammarota* R., **Bartolini D.**, Cinquina V., Valenti M., Vicentini L., Noonan D., Albini A., Parolaro D. CANNABIDIOL AS A POTENT ANTI-ANGIOGENIC DRUG, FEBS Workshop on Molecular and Cellular mechanisms in Angiogenesis Capri 14-17 October 2012 (POSTER)
- 8) Albini A.¹, Cantelmo A.R.², Pagani A.², **Bartolini D.**², Noonan D.³. Cancer prevention by targeting angiogenesis and the tumor microenvironment. CSH Asia / ICMS (The International Cancer Microenvironment Society) Joint Conference on Tumor Microenvironment, Suzhou Dushu Lake Conference Center, November 13 - 17, 2012.
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- 11) Murdolo G.^{1,2}, **Bartolini D.**¹, Piroddi M.¹, Luchetti F.³, Tortoioli C.¹, Canonico B.³, Iuliano L.⁴ and Galli F.². Lipid peroxidation impairs Wnt-dependent differentiation of human adipose precursor cells. 57th National Meeting of the Italian Society of Biochemistry and Molecular Biology, Ferrara, 18th-19th-20th September 2013 (POSTER).
- 12) **Bartolini D.**¹, Piroddi M.¹, Tidei C.², Giovagnoli S.², Manevich Y.³, Tew K.D.³, Santi C.² and Galli F.¹ Reaction kinetics and cell effects of a new glutathione peroxidase mimetic drug: PhSeZnCl. 57th National Meeting of the Italian Society of Biochemistry and Molecular Biology, Ferrara, 18th-19th-20th September 2013 (POSTER).
- 13) A. Pagani, **D. Bartolini**, A. Bruno, D.M. Noonan, A. Albini. Fenretinide (4-HPR) targets parental and cancer initiating medulloblastoma cells. 55th Annual Meeting of the Italian Cancer Society, Università degli Studi "Magna Graecia" di Catanzaro, 23 - 26 September 2013 (POSTER N16 and Oral Presentation).
- 14) **Bartolini D.**, Piroddi M., Tidei C., Cifollilli S., Giustarini D., Rossi R., Santi C., Galli F. PhSeZnCl: a new GPx mimetic drug with anticancer activity in GSTP1 overexpressing K562 erythroleukemia cells. 55th SIC ANNUAL MEETING of the Italian Cancer Society, Catanzaro, 23-26 september 2013.
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- 16) **D. Bartolini**¹, M. Piroddi¹, J. Comodi¹, C. Tidei¹, S. Giovagnoli¹, D. Pietrella¹, Y. Manevich², K.D. Tew², D. Giustarini³, R. Rossi³, D.M. Townsend⁴, C. Santi¹ and F. Galli¹. Reaction kinetics and targeting to cellular GST of the glutathione peroxidase mimetic PhSeZnCl and its D,L-polylactide microparticle formulation. 3th Workshop of the multidisciplinary group SeS Redox & cataysis – (wSeS-3), Perugia 15th-17th September 2014 (Pag. 20 abstract book; oral presentation).

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- 18) **BARTOLINI D.**, COMMODI J., PIRODDI M., PIERI V., INCIPINI L., SANCINETO L., SANTI C. AND GALLI F., First evidence of a glutathione S-transferase P-dependent feedback mechanism of the Nrf2 activation response (abstract id:10357), Oxygen Club of California World Congress 2015. Valencia, Spain.
- 19) (Key note lecture) F. Galli, S. Lorkowski, M. Wallert, G. Cruciani, M. Birringer, G. Svegliati Baroni, **D. Bartolini**, M. Piroddi. Metabolic fate of vitamin E at the crossroad with fatty acid metabolism: a nutraceutical perspective. RDPA 2015, Recent Developments in Pharmaceutical Analysis. 28 June – 1 July 2015, Perugia, Italy.
- 20) Murolo G., Piroddi M., Tortoioli C., **Bartolini D.**, Schmelz M., Iuliano L., Galli F. 7-keto-cholesterol: a free radical-derived oxysterol of human adipose tissue with anti-adipogenic activity. SFRR-E/SNFS Conference, 2-4 Sept., 2015. Stuttgart, Germany. (published in: Free Radical Biology and Medicine, Volume 86, Supplement 1, September 2015, Pages S41).
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- 22) **Bartolini D.**, do Nascimento V., Galli F., L. Braga A., Pietrella D., Santi C. and Sancineto L.. Se-based compounds as drug candidates: in the search for Se Therapeutics. HALCHEM7, Cestokowa (Poland), 3-6 Sept. 2015.
- 23) **D. Bartolini**, M. Piroddi, L. Incipini, L. Sancineto, V. Pieri, C. Santi, F. Galli. Selenium-derived compounds as pharmacological tools to target the redox signaling and detoxification function of GSTP. 3rd Congress of the Serbian Society for Mitochondrial and Free Radical Physiology (SSMFRP), Belgrade (Serbia), September 25-26, 2015.
- 24) P. Torquato, V. Faccani, S. Lorkowski, M. Wallert, G. Cruciani, M. Birringer, R. Galarini, **D. Bartolini**, M. Piroddi, F. Galli. Wheat germ omics and the functional "endometabolome" of vitamin E. 4th Edition of the International Conference on FoodOmics: Food to Life, 8-9 October 2015, Cesena, Italy.
- 25) **Bartolini D**¹, Barola C¹, Torquato P¹, Ripa O¹, Pierantonelli I², Rychlicki C², Svegliati-Baroni G,² Galarini R² and Galli F¹ **ANALYTICAL AND MOLECULAR INSIGHTS IN THE CYTOCHROME P450 METABOLISM OF VITAMIN E AND LIPOTOXICITY MECHANISMS OF NON-ALCOHOLIC FATTY LIVER.** SFRR-E/SNFS Conference, 8-12 June, 2016. Budapest, Hungary.
- 26) Piroddi M, ²Chiaradia E, ¹ **Bartolini D.**, ¹ Moretti M, ¹ Russo A and ¹Galli F. **REDOX PROTEOMICS OF PLASMA PROTEINS IN CHRONIC KIDNEY DISEASE: ASSOCIATION WITH LEUCOCYTES DNA-DAMAGE AND PRO-APOPTOTIC ACTIVITY.** SFRR-E/SNFS Conference, 8-12 June, 2016. Budapest, Hungary.
- 27) Russo A^{1,2}, Barola C¹, Torquato P¹, Galli F¹ and **Bartolini D**¹. **THE TOXIC EFFECT OF ETHANOL ON CYTOCHROME P450 F2 (CYP4F2) EXPRESSION IN HUMAN HEPATOCARCINOMA CELLS IS MITIGATED BY α -TOCOPHEROL.** SFRR-E/SNFS Conference, 8-12 June, 2016. Budapest, Hungary.
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- 30) Piroddi M., Chiaradia E., **Bartolini D.**, Moretti M., Russo A., Torquato P., Galli F. **Redox-proteomics of uremic plasma: protein carbonylation and lymphocytes cytotoxicity.** XI ItPA National Congress, Perugia, May 16th-19th, 2016 (P-IV-04, pag. 71).
- 31) Fiorito S., Epifano F., Taddeo V.A., Genovese S., Santi C., **Bartolini D.**, Galli F. **Selenium-prenyl containing compounds as Drug Candidates.** Young Chemists Symposium, MYCS2016, Rimini, October 25-27th, 2016
- 32) Torquato P., **Bartolini D.**, Piroddi M., Russo A., Giusepponi D., Cruciani G., Galarini R. and Galli F. **Vitamin E metabolism and function.** 16th Fat Soluble Vitamins Congress. March 21-23, 2017, Paris, France (Abstract n° E2, oral presentation, abstract book page 19).
- 33) **Bartolini D.**, Buhmann M., Barreca, M.L., Manfroni G., Cecchetti V., Rauh D. and Galli F. **Functional and structural characterization of a novel class of MAP-kinase inhibitors.** OCC World Congress 2017 and Annual SFRR-E Conference METABOLIC STRESS AND REDOX REGULATION, Radisson Blue Hotel, Berlin, June 21-23, 2017. Free Radical Biology and Medicine 108 (2017), P-139, S-65.
- 34) **Bartolini D.**, Giustarini D., Torquato P., Piroddi M., Claudio S., Rossi R., Tew K. and Galli F. **GSTP expression influences the metabolism and redox of cellular glutathione.** OCC World Congress 2017 and Annual SFRR-E Conference METABOLIC STRESS AND REDOX REGULATION, Radisson Blue Hotel, Berlin, June 21-23, 2017. Free Radical Biology and Medicine 108 (2017), P-140, S-65.

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- 36) Giusepponi D., Torquato P., **Bartolini D.**, Piroddi M., Moretti S., Saluti G., Birringer M., Lorkowski S., Galli F., Galarini R. **A quantitative LC-MS/MS method for the measurement of tocopherols, polyunsaturated fatty acids and their metabolites in human plasma and serum.** OCC World Congress 2017 and Annual SFRR-E Conference METABOLIC STRESS AND REDOX REGULATION, Radisson Blue Hotel, Berlin, June 21-23, 2017. Free Radical Biology and Medicine 108 (2017), P-250, S105.
- 37) P Torquato, **D Bartolini**, D Giusepponi, M Piroddi, R Galarini, F Galli. **Increased levels of alpha-tocopherylquinone (α-TQ) demonstrate a higher vitamin E oxidation rate in non-alcoholic fatty liver disease (NAFLD) patients.** 19th SFRR Biennial Meeting 4-7 June 2018, Lisbon, Portugal. Free Radical Biology and Medicine (2018), 120, S122.
- 38) P Torquato, D Giusepponi, AAlisi, R Galarini, **D Bartolini**, M Piroddi et al., **Arachidonic acid to docosahexaenoic acid ratio (AA/DHA): a strong clinical outcome predictor in DHA-based nutritional therapy of pediatric NASH.** 19th SFRR Biennial Meeting 4-7 June 2018, Lisbon, Portugal. Free Radical Biology and Medicine (2018) 120, S122.
- 39) **Bartolini D.**, Giustarini D, Pietrella D, Marinelli R, Torquato P, Rossi R, Galli F. **Glutathione S-transferase P influences the Nrf2-dependent control of cellular glutathione metabolism.** 19th SFRR Biennial Meeting 4-7 June 2018, Lisbon, Portugal. (Oral presentation).
- 40) **Bartolini D.**, Giustarini D., Pietrella D., Rossi R., Galli F. **THE NRF2/GSTP INTERACTOME AND ITS ROLE IN STRESS-MEDIATED REGULATION OF CELLULAR THIOL METABOLISM AND SIGNALING.** 4th International Congress of the Serbian Society for Mitochondrial and Free Radical Physiology, Challenges in Redox Biology. 28-30 Sept. 2018, University of Belgrade Rectorate Palace (Studentski trg 1), Belgrade.
- 41) Marinelli R., **Bartolini D.**, Ambrogini P., Betti M., Minelli A., Cuppini R. and Galli F. **Vitamin E molecules to treat excitotoxicity and neuroinflammation in chronic neurodegenerative diseases.** 1st International Conference on Neuroprotection by drugs, nutraceuticals and physical activity, 6- 7 June 2019, Rimini, Italy.
- 42) Marinelli R., Torquato P., **Bartolini D.**, Mas-Bargues C., Belezza G., Gioiello A., Borrás C., De Luca A., Fallarino F., Mani S., Sidoni A., Vina J., Lerí M., Bucciantini M., Casamenti F., Galli F. **Garcinoic acid is a brain PPAR-γ agonist that stimulates the ApoE-dependent metabolism of Aβ in mouse embryonic astrocytes.** (poster P11, flash presentation). Winter School on Biotechnology, 6th Edition, 20-23 January 2020, Teaching Center of Biotechnology, Via del Giochetto, Perugia.
- 43) **Bartolini D.**, Grignano M.A., Focaia R., Stabile A.M., Torquato P., Di Cristina M., Piro F., Rende M., Libetta C., Galli F. **High molecular weight uremic retention solutes stimulate GSTP protein expression and oxidative damage of peripheral blood leukocytes.** SFRR-E 2021, 15-18 June 2021, Belgrade (SERBIA). Poster presented virtually.

Conference

"Bioforum 2011", February 2011, Venice

"Life-Med 2011", October 2011, Milan

"Procedure per le biobanche di ricerca", October 2011, Humanitas Cancer Center (Rozzano, Milan).

"SIP YOUNG SCIENTISTS", 24th-25th October 2011, Alma Mater Studiorum University of Bologna, Bologna.

"Corso Biotecnologie e Medicina" 16th November 2011, IRCCS MultiMedica, Sesto San Giovanni, Milan.

Corso "Rischio Biologico", Novembre 2011, IRCCS MultiMedica Scientific and Technological Pole, Milan.

Seminars: "The tumor microenvironment as target for cancer therapy and prevention". April 20, 2012, IFOM-IEO Campus, Conference Room (Building 9), Via Adamello, 16 - Milan

2nd International Conference "Translational Research in Oncology: a New Approach to Personalized Medicine", May 8, 2012, IRCCS IRST, Meldola – May 9-10-11, 2012, Hotel Globus City, Forlì.

WorkShop Diagnosi precoce del carcinoma prostatico: "phi, oltre il PSA", May 31, 2012, Auditorium, IRCCS MultiMedica, Sesto San Giovanni, Milan.

54th Annual Meeting of the Italian Cancer Society; MISSION [IM]POSSIBLE understanding cancer-host dialogues for personalized cancer medicine, October 1-4, 2012, Istituto Ortopedico Rizzoli, Bologna.

Seminario Ricerca-RE, October 24, 2012, Aula Cubica di Rocca Saporiti, ASMN di Reggio Emilia.

V edizione, Conferenza Internazionale Women&Technologies®: e-Nutrition e Premio "Le Tecnovisionarie®" 2012. November 6, 2012, Camera di Commercio di Milano, sala conferenze, Via Meravigli 9/B, Milan.

Convegno "Fitoterapia, Ayurveda, Medicina Antroposofica e Oncologia: indicazioni, controindicazioni, esperienze di integrazione", November 23, 2012, Istituto Nazionale dei Tumori (INT), Milan.

Corso "Biotecnologie e Medicina", December 11, 2012, Aula Cubica – Palazzo Rocca Saporiti, Reggio Emilia.

57th National Meeting of the Italian Society of Biochemistry and Molecular Biology, 18th-19th-20th September 2013, Ferrara (Italy).

Workshop on OMEGA-3, Fatty acids in health and disease, Rome (Italy), March 13th-14th, 2014.

III International Conference on CELLULAR ENVIRONMENTAL STRESSORS IN BIOLOGY AND MEDICINE: FOCUS ON REDOX REACTION, Ferrara, Italy, June 25-27, 2014.

3th Workshop of the multidisciplinary group SeS Redox & cataysis – (wSeS-3), Perugia, Italy, September 15-17, 2014

Winter School on Biotechnology, School of Medicine's Learning Centre, Perugia, Italy, January 19-13, 2015.

4th Workshop of the multidisciplinary group SeS Redox & cataysis – (wSeS-4), Perugia, Italy, April 20-21, 2015

Oxygen Club of California World Congress, „Oxydants and antioxidants in biology“, Valencia, 24th-26th June 2015, Congress Palace of Valencia.

The SFRR-E Meeting 2015, September 2-4, 2015, Stuttgart, Germany.

XI Annual Conference ItPA, May 16th-19th, Perugia, Italy.

SFRR-E Meeting Budapest, 8-11 June 2016 Danubius Hotel Helia Budapest 1133 Budapest, Kárpát Street 62-64. (Hungary)

OCC World Congress 2017 and Annual SFRR-E Conference METABOLIC STRESS AND REDOX REGULATION, Radisson Blue Hotel, Berlin, June 21-23, 2017.

19th SFRR Biennial Meeting 4-7 June 2018, Lisbon, Portugal.

Conference "Il Microbioma", 31 May 2019, Aula Magna "G. Bossi", Ancona, Italy.

Winter School on Biotechnology, 6th Edition, 20-23 January 2020, Teaching Center of Biotechnology, Via del Giochetto, Perugia.

Winter School on Biotechnology, 7th Edition – Virtual Edition. "Biotechnologies in the time of COVID-19", 18-21 January 2021.

SFRR 2021 - 20th Biennial Meeting of SFRR International, Online Congress, 15-18 March 2021.

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Perugia, May 13 , 2021