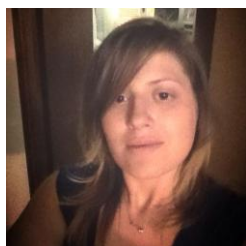


PERSONAL INFORMATION

Bartolini Desirée



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RESEARCH WORK

**ERC FIELDS:**

- LS1\_2 General biochemistry and metabolism
- LS1\_8 Biochemistry of signal transduction
- LS2\_4 Metabolomics
- LS3\_1 Morphology and functional imaging of cells
- LS3\_4 Apoptosis
- LS3\_7 Cell signaling and cellular interactions
- LS4\_4 Ageing
- LS4\_5 Metabolism, biological basis of metabolism related disorders
- LS5\_11 Neurological disorders (e.g. Alzheimer's disease, Huntington's disease, Parkinson's disease)
- LS7\_3 Pharmacology, pharmacogenomics, drug discovery and design, drug therapy

PUBLICATION RECORD

**Scopus ID: 55704993300**  
 (<https://www.scopus.com/authid/detail.uri?authorId=55704993300>)  
 From Scopus (2012-2026):  
**Cumulative record of original publications, review papers and book chapters = 92 products.**  
**Total citations = 3,369**  
**H index=32**

PROFESSIONAL APPOINTMENT

February 2022 – present, head of research unit (laboratory of human anatomy), Dept of Pharmaceutical Sciences, University of Perugia, Italy.

WORK EXPERIENCE

*February 2025-present*

**Associate Professor in Human Anatomy (SSD BIOS-12/A)**

University of Perugia, Dept. of Pharmaceutical Sciences

*February 2022-February 2025*

**Assistant Professor and Research fellow (RTD-B), SSD BIOS-12/A**

University of Perugia, Dept. of Pharmaceutical Sciences

*May 2021-February 2022*

**Annual research Fellowship**

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

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–October 2016

### 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

- December 2022-today* **National Habilitation (validity span 2023-2034):**  
- Full professor in Human Anatomy (sector 05/H1; BIO/16).
- October 2022-today* **National Habilitation (validity span 2022-2032):**  
- Associate professor in Human Anatomy (sector 05/H1; BIO/16).
- June 2021-today* **National Habilitation (validity span 2021-2030):**  
- Associate professor in General Biochemistry (sector 05/E1; BIO/10).
- 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 Italy.**
- 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.

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**

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**

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, *in vitro* angiogenesis assays, zimography, protein extraction, western blot, dot-blot, DNA/RNA extraction, PCR, RT-PCR, enzymatic assays (spettrofluorimetric 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, BioRender, ChemDraw, Origin Lab, ImageJ, Gel-Pro Analyzer, EndNote, BioRender.  
**Bioinformatics Knowledge:** use of common databases (NCBI, EBI, SciFinder, Scholar, Huger Navigator)

**Other skills** **Teaching activity:**  
 Didactics activity as Assistant Professor in Human Anatomy courses for Pharmacy, C.T.F., Quasal and Biology Sciences at Dept of Pharmaceutical Sciences, University of Perugia.  
 Didactics support for Human Anatomy courses for Medicine and Pharmacy (University of Perugia).  
 ▪ 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).

**Driving licence** ▪ **B**

**Scientific Societies member** 2011-2013- Italian Cancer Society (SIC).  
 2013- present- Society for Free Radical Research –Europe (SFRR-E).  
 2014-2018 Multidisciplinary international group “Se-S redox&catalysis” .  
 2019- 2022- Italian Proteomics Association (ItPA).  
 2021- present- " Societa' Italiana Anatomia e Istologia" (SIAI).

- Editorial Board member**
- Amino Acids (Springer) from 2018 to 2019
  - Review Editor in Frontiers in Nutrition - Nutrition and Metabolism from 2022 to today
  - Guest Editor Special Issue of International Journal of Molecular Sciences (ISSN 1422-0067) "Obesity and Insulin Resistance: The Dark Sides of Adipose Organ Dysfunction in the Cardiometabolic Continuum"  
([https://www.mdpi.com/journal/ijms/special\\_issues/insulin\\_resistance#editors](https://www.mdpi.com/journal/ijms/special_issues/insulin_resistance#editors))
  - BioFactors, from 2022 to today (<https://iubmb.onlinelibrary.wiley.com/hub/journal/18728081/editorial-board.html>)
- Reviewer activity:**
- several journals in the area of cell biology, anatomy, biochemistry, laboratory medicine, nephrology, endocrinology and metabolism, nutrition and food science.
- Awards:**
- 1) Two-Years FIRC-AIRC 2016. Project title: "Therapeutic targeting of the Glutathione S-transferase interactome in human hepatocarcinoma".
  - 2) "Travel Award SFRR-E 2018 for 19th SFRR Biennial Meeting 4-7 June 2018, Lisbon, Portugal.
  - 3) "Travel Award SFRR-E 2020" for SFRR-E 2021 Congress, 15-18 June 2021.
  - 4) Young Investigator Award 2022 sponsored by SFRR Europe in recognition of extraordinary Scientific Achievements in the field of "Free radical Research", given the 26<sup>th</sup> day of August 2022, in Ghent, Belgium.
  - 5) "Premio Giovani Ricercatori 2023", XXXIX Congresso della SII, Isola di Vulcano, June 14.17, 2023, Italy.
- Research Activity**
- Areas of pertinence:** Biochemistry of lipids, cell biology and signal transduction, pharmacology/toxicology, human metabolism, aging and cell morphology.
- Research topics:**
- Vitamins and micronutrients (status, metabolism, biological roles and therapeutic applications),
  - metabolomics (targeted and untargeted methods and techniques, vitamin metabolism, lipidomics)
  - oxidant/redox stress and inflammation (biomarkers and pathogenic role in chronic diseases),
  - glutathione S-transferase, glutathione and sulphur-containing amino acids (interactions, metabolism, redox sensing/signaling and detoxification function)
  - hepatology (fatty liver and NASH, nutritional approach, biomarkers, in vitro and in vivo models, transplantation);
  - aging (neurodegenerative disease such Alzheimer's disease and Mild Cognitive Impairment (MCI)
  - kidney disease (pathobiology and comorbidity, dialysis therapy biomaterials and techniques, transplantation)
  - selenium (biochemistry, cell biology, nutrition and pharmacological applications, such as chemotherapy and chemoprevention of drug-resistant cancers; positive hormesis)
  - stem cells (adipose and cancer)
  - melatonin (cytoprotection and immuno-inflammatory effects)
  - post-translational modification of proteins (proteomics, relevance to biology, medicine and food chemistry).

## 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**, Ciffolilli 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**, Ciffolilli 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, Ciffolilli 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 horsetick diselenides. *Free Radic Biol Med*. 2015 Jul 4. pii: S0891-5849(15)00307-X. doi: 10.1016/j.freeradbiomed.2015.06.039.
- 11) Ciffolilli 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  $\alpha$ -(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  $\alpha$ -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  $\alpha$ -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.**, Bühmann 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 $\alpha$  MAPK inhibitors. *BBRC. Biochem Biophys Res Commun.* 2019 Feb 26.
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## Patents

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

**Book Chapters**

- 1) Francesco Galli<sup>1a</sup>, Massimo Conese<sup>2</sup>, Luigi Maiuri<sup>2,3</sup>, Roberto Gambari<sup>4</sup>, **Desirée Bartolini**<sup>1</sup>, Marta Piroddi<sup>1</sup>, Silvia Ciffolilli<sup>1</sup>, Giulio Cabrini<sup>5,a,b</sup> 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**, Ciffolilli Silvia, Piroddi Marta, Murdolo Giuseppe, Tortoioli 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;
- 4) Pierangelo Torquato, Rita Marinelli, **Desirée Bartolini**, Francesco Galli. Chapter 23, Vitamin E: Nutritional aspects. Book title: Molecular Nutrition: Vitamins. Elsevier, 1 January 2019, Pages 447-485. Editor(s): Vinood B. Patel. DOI: 10.1016/B978-0-12-811907-5.00019-1.
- 5) Pierangelo Torquato, Rita Marinelli, **Desirée Bartolini**, Danilo Giusepponi, Gabriele Cruciani, Lydia Siragusa, Roberta Galarini, Bartolomeo Sebastiani, Antimo Gioiello, Francesco Galli Chapter 24 - **Vitamin E: metabolism and molecular aspects**. Book title: Molecular Nutrition: Vitamins, Academic Press, 2020, Pages 487-518, Editor(s): Vinood B. Patel.
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## Abstracts

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- 71) Varfaj I., **Bartolini D.**, Pallottelli L., Migni A., Sgarretta D., Macchiarulo A., Romani A., Sardella R., Clementi C., Galli F. Advancing sustainable biofunctional textiles: Exploring the anti-inflammatory, antioxidant, and UV-protection properties in onion (*Allium cepa* L.) skin extract. Free Radical Biology and Medicine, 2024. (Poster presentation).
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- 76) Ruggirello M., Clementi M.E., Stabile A.M., Pistilli A., **Bartolini D.**, Di Liddo R., Valeriani F., Ria F., Rende M., Spica V.R., Di Sante G., Michetti F. The impact of S100B silencing on Multiple Sclerosis model: the role of glial cells. (Poster presentation). Italian Journal of Anatomy and Embryology 128(1) Supplement: 88, 2024 Supplement Firenze University Press, ISSN 1122-6714 (print) | ISSN 2038-5129 (online). 77° Congresso Nazionale SIAI, Genova, 2024
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160, 2024 Supplement Firenze University Press [www.fupress.com/ijae](http://www.fupress.com/ijae), ISSN 1122-6714 (print) | ISSN 2038-5129 (online). 77° Congresso Nazionale SIAI, Genova, 2024.

78) Varfaj I., Migni A., Stabile A.M., Pedrinolla A., Pistilli A., Tognoloni A., Di Sante G., Venturelli M., Galli F., Rende M., **Bartolini D.** Choko-age project: in vitro bioactivity evaluation of a new Vi-tamin E-funzionalized chocolate product. (Oral Presentation). Italian Journal of Anatomy and Embryology 128(1) Supplement: 165, 2024 Supplement Firenze University Press [www.fupress.com/ijae](http://www.fupress.com/ijae), ISSN 1122-6714 (print) | ISSN 2038-5129 (online). 77° Congresso Nazionale SIAI, Genova, 2024

79) Migni A., Varfaj I., Russo R, **Bartolini D.** and Galli F.. Exploring lipidomic alterations and oxidative stress in Cushing's syndrome: Implications for disease pathogenesis and therapy. Free Radical Biology and Medicine, volume 233, S101, 2025.

80) Migni A., **Bartolini D.**, Russo R. and Galli F. .Melatonin counteracts cadmium and free fatty acid-induced lipotoxicity in human hepatocytes: Lipidomics characterization and molecular insights. Free Radical Biology and Medicine, volume 233, S88, 2025.

81) Russo R. and **Bartolini D.** Precision nutrition: Lipid profile and seasonal variations of mackerel oil as a source of omega-3. Free Radical Biology and Medicine, volume 233 S87-S88, 2025.

82) Ina Varfaj, **Desirée Bartolini**, Anna Migni, Isabelle Franco Moscardini, Alessia Tognoloni, Maria Rachele Ceccarini, Roberta Russo, Stefano Garetto, Jacopo Lucci, Francesco Galli. Natural Vitamin D formulations prevent oxidative stress in human hepatocytes exposed to free fatty acid-induced lipotoxicity. Free Radical Biology and Medicine, volume 233 S89, 2025.

83) Falcone V., Zadra C., Cerra B., Temperini A., Varfaj I., Sardella R., Gioiello A., Galli F., **Bartolini D.**, Schoubben A. Garcinoic acid: from Garcinia kola seeds extraction to an innovative delivery system for nose-to-brain delivery. Drug Delivery to the Lungs conference proceedings, Volume 36, 2025, <https://doi.org/10.60565/CARR-RF93>.

## 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

2<sup>nd</sup> International Conference "Traslational 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.

54<sup>th</sup> 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.

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

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

III International Conference on CELLULAR ENVIRONMENTAL STRESSORS IN BIOLOGY AND MEDICINE:

FOCUS ON REDOX REACTION, Ferrara, Italy, June 25-27, 2014.

3<sup>th</sup> 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.

4<sup>th</sup> 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, 24<sup>th</sup>-26<sup>th</sup> June 2015, Congress Palace of Valencia.

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

XI Annual Conference ItPA, May 16<sup>th</sup>-19<sup>th</sup>, 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.

19<sup>th</sup> SFRR-I Biennial Meeting 4-7 June 2018, Lisbon, Portugal.

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

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

Winter School on Biotechnology, 7<sup>th</sup> Edition – Virtual Edition. “Biotechnologies in the time of COVID-19”, 18-21 January 2021.

SFRR-I 2021 - 20<sup>th</sup> Biennial Meeting of SFRR International, Online Congress, 15-18 March 2021.

SFRR-E 2021 Online Congress, 15-18 June 2021.

16<sup>th</sup> Congress of the European Association of Clinical Anatomy (EACA) held ONLINE jointly with the XII Meeting of the International Symposium of Clinical and Applied Anatomy (ISCAA), from 14<sup>th</sup> to 16<sup>th</sup> of September 2021.

74<sup>th</sup> SIAI National Congress, Bologna, 25-25 September 2021.

SFRR-E and POG Redox Biology Congress 2022, 23-26 August 2022, Ghent, Belgium.

75<sup>th</sup> SIAI National Congress, Padova, September 2022.

Annual meeting of the Society for Free Radical Research – Europe (SFRR-E), June 6–9, 2023, Hotel Savoyen, Vienna, Austria.

XXXIX Congresso della SII, June 14.17, 2023, Isola di Vulcano, Italy.

76° Congresso Nazionale SIAI, September 11-13, 2023, Modena, Italy.

Annual meeting 2024 of the Society for Free Radical Research – Europe „From molecules to tissues: redox biology in action“, ISTANBUL, TÜRKIYE, from June 5 - 7, 2024

77° Congresso Nazionale SIAI, September 10-12, 2024, Genova, Italy.

HNE Club meeting, October 10-12, 2024, Genova, Italy.

Monotematic meeting The impact of micro- and macro-environments on immunity and inflammation: paving the way for novel immunotherapies, SIF, Perugia (Italy), June 16-17, 2025.

78° Congresso Nazionale SIAI, September 17-20, 2025, Ravenna, Italy.

*Dioxin 2026 Symposium pre-event Workshop: “PFAS: a multi-generational challenge”  
Molecular Horizon Congress Center, Bettona (PG) May 6th, 2026*

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Perugia, June 10, 2026

