

## PERSONAL INFORMATION

## Bartolini Desirée

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Sex Female | Date of birth 31/08/1985 | Nationality Italian

## RESEARCH WORK

## ERC FIELDS:

LS1\_2 General biochemistry and metabolism

LS1\_8 Biochemistry of signal transduction

LS3\_7 Cell signalling and cellular interactions

LS4\_4 Ageing

LS4\_5 Metabolism, biological basis of metabolism related disorders

LS7\_3 Pharmacology, pharmacogenomics, drug discovery and design, drug therapy

## PUBLICATION RECORD

Scopus (2012-2022) - Cumulative record of original publications, review papers and book chapters = 61 products.

**Scopus ID: 55704993300**

(<https://www.scopus.com/authid/detail.uri?authorId=55704993300>)

Total citations = 1595

H index=21

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

## WORK EXPERIENCE

February 2022-present

**Assistant Professor and Research fellow (RTD-B), SSD BIO/16**

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 (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

- October 2022-today **National Habilitation (validity span 2022-2032):**  
- Associate professor in Human Anatomin (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.**
- 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, *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, 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 activity as Assistant Professor in Human Anatomy courses for Pharmacy, C.T.F. 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** 2013- present- Society for Free Radical Research --Europe (SFRR-E)  
 2019- present- Italian Proteomics Association (ItPA)  
 2021- present- " Societa' Italiana Anatomia e Istologia" (SIAI)  
 2011-2013- Italian Cancer Society (SIC)  
 2014-2018 Multidisciplinary international group "Se-S redox&catalysis" (coordinator Prof. Claudio Santi, University of Perugia, Italy).

## 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))

## Reviewer activity:

several journals in the area of biochemistry, laboratory medicine, nephrology, endocrinology and metabolism, nutrition and food science.

## Research Activity

**Areas of pertinence:** Biochemistry of lipids, cell biology and signal transduction, pharmacology/toxicology, human metabolism, nephrology 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)
- 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.**, 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 $\alpha$  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.
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## Abstracts

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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 ( $\alpha$ -TQ) demonstrate a higher vitamin E oxidation rate in non-alcoholic fatty liver disease (NAFLD) patients.** 19<sup>th</sup> SFRR Biennial Meeting 4-7 June 2018, Lisbon, Portugal. Free Radical Biology and Medicine (2018), 120, S122.
- 38) P Torquato, D Giusepponi, A Alisi, 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.** 19<sup>th</sup> 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.** 19<sup>th</sup> 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.** 4<sup>th</sup> 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.** 1<sup>st</sup> 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., Leri M., Bucciantini M., Casamenti F., Galli F. **Garcinoic acid is a brain PPAR-gamma and PXR agonist that stimulates the ApoE-dependent metabolism of A $\beta$  in mouse embryonic astrocytes.** Winter School on Biotechnology, 6<sup>th</sup> Edition, 20-23 January 2020, Teaching Center of Biotechnology, Via del Giochetto, Perugia. (poster P11, flash presentation)
- 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.
- 44) **Bartolini D.**, Stabile A.M., Gurrato F., Lioci G., Pistilli A., Migni A., Svegliati-Baroni G., Galli F. and Rende M. **First molecular and physical characterization of Glutathione S-transferase P interaction with Nrf2 transcription factor in the drug-resistance model of mouse hepatocarcinoma.** 16<sup>th</sup> EACA Congress and XII ISCAA Congress, 14-16 September 2021 (poster presentation).
- 45) **Bartolini D.**, Stabile A.M., Gurrato F., Lioci G., Pistilli A., Migni A., Svegliati-Baroni G., Galli F. and Rende M. **Glutathione S-transferase P interacts with Nrf2 transcription factor in the drug-resistance model of mouse hepatocarcinoma: a first molecular and physical characterization.** 74<sup>th</sup> SIAI National Congress, 25-25 September 2021 (Oral Presentation).
- 46) Tali Shandiz S., **Bartolini D.**, De Franco F., Passeri D., Marinelli R., Cruciani G., Pellicciari R., Galli F. and Gioiello A. **Design, Synthesis and Biological Activity of Garcinoic Acid Bioisosters as Pregnane X Receptor Modulators.** SCI National Congress, 14-23 September 2021. Poster presented virtually.
- 47) Fonte C., Pedrinolla A, Stabile A., **Bartolini D.**, Wang E., Vina J., Jackson M., Masoud I., Schena F., Galli, F, Venturelli M. **Combining vitamin E-functionalized CHOColate with physical exercise to reduce the risk Of protein-energy malnutrition in pre-dementia AGEd people – The Choko-AGE study.** 22<sup>o</sup> Convegno Nazionale AIP "Dopo la pandemia: la sfida per una medicina a misura della terza età" 23-25 May 2022 (Poster presentation).
- 48) **Bartolini D** \*, Zatini L., Marcantonini G., Stabile AM., Frammartino T., Guerrini A., Garetto S., Lucci J., Rende M., Galli F.. **Cytoprotection effect of natural vitamin D in human liver cell lipotoxicity: a transcriptomics approach.** Special Issue: Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 30 (Poster).

- 49) **Bartolini D.**,\* Arato I., Mancuso F., Giustarini D., Bellucci C., Vacca C., Aglietti, MC., Stabile, AM, Rossi R., Cruciani G., Rende M., Calafiore R., Luca G., Galli F.; **Melatonin modulates Nrf2/NfκB activity to prevent Cadmium-induced H<sub>2</sub>O<sub>2</sub> production and reductive stress in porcine pre-pubertal Sertoli cells.** Special Issue: Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 30 (Poster).
- 50) **Bartolini D.**,\* Galeazzi G., Stabile AM., Gurrato F., Lioci G., Pistilli A., Di Sante G., Migni A., Rende M., Svegliati-Baroni G., Galli F. **Interaction between Glutathione S-Transferase P and Nrf2 transcription factor in mouse hepatocarcinoma: a molecular and physical characterization.** Special Issue: Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 30 (Poster).
- 51) **Bartolini D.**, Giustarini D., Marcantonini G, Rossi R., Stabile AM., Rende M., Gioiello A., Zatini L., Mencacci A., Cruciani G., Galli F. **Abnormalities of the cellular redox associated with the cytopathic and proinflammatory effects of SARS-COV2 infection.** SFRR-E Oral Presentation Session 3 – Redox biology of neurodegenerative and infectious diseases. Special Issue: Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 20.
- 52) **Bartolini D.**,\* Migni A., Marcantonini G., Zatini L., Gioiello A., Stabile A.M., Rende M., Galli F. **Anticancer effect of the vitamin E metabolite garcinoic acid in mouse models of HER2/neu positive breast cancer.** VESS3 Oral Presentations Sessions. Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 26.
- 53) Hemmings K.\* Prokopidis K., Migni A., Antognelli C., **Bartolini D.**, Borrás C., Cruciani G., Di Sante G., Marcantonini G., Mas Bagues C., Modena R., Pedrinolla A., Piroddi M., Pistilli A., Rende M., Shena F., Sebastiani., Stabile AM, Talesa VN., Tortorella S., Venturelli M., Vina J., Wang E., Zatini L., Galli F., Isanejad M., Jackson M, McArdle A. **The role of hypercortisolism, inflammation and modified redox on the functional loss of muscle with age: protective effects of vitamin E and cocoa polyphenols.** VESS3 Oral Presentations Sessions. Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Pages 26-27.
- 54) Marcantonini G.\*, **Bartolini D.**, Zatini L., Marinelli R., Stabile A.M., Frammartino T., Guerrini A., Garetto S., Jacopo Lucci J., Rende M., Galli F. **Nutrigenomics of wheat germ oil-vitamin e in human liver cells exposed to oleic acid-induced lipotoxicity.** VESS3 Oral Presentations Sessions. Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 27.
- 55) Migni A.\*, Galli F., Antognelli C., **Bartolini D.**, Borrás C., Cruciani G., Di Sante G., Hemmings K., Jackson M., McArdle A., Marcantonini G., Mas-Bargues C., Isanejad M., Pedrinolla A., Modena R., Piroddi M., Pistilli A., Rende M., Shena F., Sebastiani., Stabile A.M., Talesa VN., Tortorella S., Venturelli M., Vina J., Wang E., Zatini L. **The Choko-age project: development and analytical characterization of a new chocolate product functionalized with vitamin E to combine with physical exercise in preventing malnutrition in pre-dementia elderly subjects.** VESS3 Oral Presentations Sessions. Redox Biology Congress 2022, Ghent, Belgium. Free Radical Biology and Medicine, Volume 189S1, 20 August 2022. Page 27.
- 56) **Bartolini D.**, Zatini L., Marcantonini G., Migni A., Stabile AM, Frammartino T, Guerrini A, Garetto S., Lucci J, Pistilli A., Di Sante G., Galli F. and Rende M. **Vitamin D cytoprotection in human liver cell lipotoxicity and its transcriptomic fingerprint: a comparison of natural and synthetic formulations.** 75th SIAI National Congress, Padova, September 2022. (IJAЕ, Vol .126, n .1 (Supplement): 61, 2022 <http://www.fupress.com/ijae> ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY; Oral presentation).
- 57) Di Sante G., Camponeschi C, De Carluccio M, Amadio S, Clementi ME, Sampaolese B, Volonté C, Stabile AM, **Bartolini D.**, Pistilli A, Tredicine M, Ria F., Rende M, Michetti F. **The S100B protein as a therapeutic target for multiple sclerosis processes.** 75th SIAI National Congress, Padova, September 2022. (IJAЕ, Vol .126, n 1 (Supplement): 160, 2022 <http://www.fupress.com/ijae> ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY; Oral presentation).
- 58) Stabile AM, Pistilli A, Ria F, Tredicine M, Lucchini M, Moliterni C, Bianco A, Mirabella M, **Bartolini D.**, Rende M, Di Sante G. **CD44 isoforms distribute differentially in CNS areas during EAE and is regulated by TLR2 in CD4+ cells during acute episodes of Multiple Sclerosis.** 75th SIAI National Congress, Padova, September 2022. (IJAЕ, Vol .126, n 1 (Supplement): 180, 2022 <http://www.fupress.com/ijae> ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY; Oral presentation).
- 59) Pistilli A., Ria F., Tredicine M., Poerio N., Lucchini M, Camponeschi C, o Mirabella M, Stabile AM, **Bartolini D.**, Fraziano M., Rende M, Di Sante G. **Liposome-based nanoparticles modulate Macrophage and regulatory T cell and effector phenotypes in Multiple Sclerosis patients.** 75th SIAI National Congress, Padova, September 2022. (IJAЕ, Vol .126, n 1 (Supplement): 234, 2022 <http://www.fupress.com/ijae> ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY; Poster presentation).
- 60) Pedrinolla A, Venturelli M, Schena F., Pistilli A., Galli F., **Bartolini D.**, Rende M, Di Sante G. and Stabile AM. **The Choko-AGE study: Combining vitamin E-functionalized CHOCocolate with physical exercise to reduce the risk Of protein energy malnutrition in predementia AGEd people.** 75th SIAI National Congress, Padova, September 2022. (IJAЕ, Vol .126, n 1 (Supplement): 282, 2022 <http://www.fupress.com/ijae> ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY; Poster presentation).
- 61) Pedrinolla A.,Stabile AM, Schena F.,Pistilli A., **Bartolini D.**, Modena R., Baschirotto C., Rende M, Di Sante G., Galli F., Venturelli M. (the Choko-AgE consortium). **Vitamin E-functionalized chocolate combined with physical exercise to prevent malnutrition in pre-dementia elderly subjects: The Choko-AgE Project.** IIM 2022, Assisi 20-23 Ottobre 2022 (Poster presentation).



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## 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 "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.

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-E 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.

Perugia, November 4, 2022

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