




PERSONAL INFORMATION	Anna Maria Timperio	
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	Sex	F
	Nationality	Italy
CURRENT POSITION SSD	<ul style="list-style-type: none"> <li>▪ Associate Professor</li> <li>▪ SSD BIO/11</li> </ul>	
RESEARCH TOPICS / EXPERIENCES	<ul style="list-style-type: none"> <li>▪ Proteomics</li> <li>▪ Metabolomics</li> <li>▪ Mass Spectrometry</li> <li>▪ 2D-gel Electrophoresis</li> <li>▪ Lipidomics</li> <li>▪ Blood metabolomics and proteomics</li> <li>▪ Urine Metabolomics</li> <li>▪ Nucleotide metabolomics</li> </ul>	
SCIENTIFIC / TECHNICAL QUALIFICATION <i>(source: Scopus)</i>	▪ <a href="#">H-index:</a>	▪ 28
	▪ <a href="#">No. publications:</a>	▪ 109
	▪ <a href="#">No. citations:</a>	▪ 2734
	▪ <a href="#">Bio-pharma &amp; health:</a>	▪ X

## EDUCATION AND TRAINING

01/01/1998 01/01/2001	Postdoctoral Fellow in proteomic and metabolomic analysis by using 2D
10/07/1999 10/07/2000	Training on mass spectrometry University of Saarbrucken (Germany) dep. Analytical Chemistry Prof C. G Huber
01/11/1994 01/11/1997	PhD in Biochemistry at University "La Tuscia" Viterbo, Italy on Proteomics of light-harvesting proteins in different plant species researches by using Mass Spectrometry.
01/11/1987 07/11/1991	Post graduate school on Biochemistry and Molecular Biology, University of Camerino, Italy on: Anticoagulant activity with dose-related response of glycoconjugates from bovine sublingual gland.
18/12/1985	Degree on Biology Science University of L'Aquila. Italy

## WORK EXPERIENCE

01/03/2017 today	Associate Professor SSD BIO/11 (Molecular Biology) University of "Tuscia" Viterbo Italy WORK EXPERIENCE : <ol style="list-style-type: none"> <li>1. Proteomics and metabolomics study of red blood cell disorders and normal and pathological erythropoiesis, with particular attention to highly disabling hereditary diseases such as <math>\beta</math>-thalassemia or sickle cell anemia.</li> <li>2. Research related to the study of bio- markers in autistic children and in Rett syndrome.</li> <li>3. Research related to the study of bio-markers during pregnancy and the study extended to the search for microplastics in placentas.</li> </ol>
01/11/2002	Researcher SSD BIO / 11 (Molecular Biology),

03/03/2017

28/02/2017	<p>Faculty of SS.MM.FF.NN of the University of Tuscia of Viterbo</p> <p><b>WORK EXPERIENCE:</b></p> <ol style="list-style-type: none"> <li>1. The use of MALDI-TOF / TOF for the study of nucleotides.</li> <li>2. The insertion of expression vectors containing the full-length cDNA sequence of human factor VIII (FLrFVIII) or domain B deleted (BDDrFVIII) into mammalian cell lines resulting in the production of recombinant factor VIII (rFVIII) for therapeutic use.</li> <li>3. Role of fatty acids, particularly docosohexaenoic acid (DHA), to induce growth inhibition and apoptosis in the human pancreatic cancer cell line PaCa-44 through a series of hypothesized mechanisms simulating apoptosis using proteomic approaches , metabolomics and interactomics.</li> <li>4. Study of cryptoendolytic communities considered the only form of life in the ice-free areas of the Antarctic desert, include unique organisms known on Earth among the most tolerant in conditions of extreme life that still ensure the functioning of ecosystems, regulating the cycles of nutrients and biogeochemicals in conditions considered incompatible with active life.</li> </ol>
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## MAIN ROLES AND RESPONSIBILITIES

From 2002 today	<ul style="list-style-type: none"> <li>▪ Scientific responsible of the “Mass Spectrometry Laboratory” University of Tuscia Viterbo Italy</li> </ul>
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## SERVICE TO NATIONAL AND INTERNATIONAL COMMUNITY

From 2019 today	<ul style="list-style-type: none"> <li>▪ Responsible for the University of Tuscia of the Agreement with “Procura della Repubblica” e “Tribunale” di Viterbo</li> <li>▪ Analyzes on drug samples (or suspected) to verify the effective presence of THC or CBD. The spectrum of investigation includes also natural drugs as cocaine and artificial drugs (heroin) and synthetics (MDMA).</li> </ul>
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## TEACHING EXPERIENCE

From 01/10/2018 today	<ul style="list-style-type: none"> <li>▪ SCIENZE OMICHE APPLICATE (DIBAF)- BISB/LM - BIOTECNOLOGIE INDUSTRIALI PER LA SALUTE E IL BENESSERE (LM-8) University of Tuscia Viterbo Italy</li> </ul>
From 01/10/2016 today	<ul style="list-style-type: none"> <li>▪ PRINCIPI DI SCIENZE OMICHE (DIBAF)- BIO/LT - BIOTECNOLOGIE (L-2) University of Tuscia Viterbo Italy</li> </ul>
From 01/10/2015 today	<ul style="list-style-type: none"> <li>▪ PROTEOMICA E METABOLOMICA (DEB) BCM09 - BIOLOGIA CELLULARE E MOLECOLARE (LM-6) University of Tuscia Viterbo Italy</li> </ul>
From 01/10/2012 To 01/10/2015	<ul style="list-style-type: none"> <li>▪ GENOMICA E PROTEOMICA (DEB) BCM09 - BIOLOGIA CELLULARE E MOLECOLARE (LM-6) University of Tuscia Viterbo Italy</li> </ul>
From 01/10/2002 To 01/10/2012	<ul style="list-style-type: none"> <li>▪ STUDIO INTEGRATO DI GENOMICA E PROTEOMICA (DEB) BCM09 - BIOLOGIA CELLULARE E MOLECOLARE (LM-6) University of Tuscia Viterbo Italy</li> </ul>

## MAIN RESEARCH EXPERIENCE

From 2010 To 2012	NUME-MIPAF. Scientific coordinator of the project "Mediterranean Nutrigenomics: from molecular nutrition to the enhancement of typical products of the Mediterranean diet -NUME". Budget: 150.000 €. 24 mesi
From 2006 to 2010	GENZOOT- MIPAF scientific collaborator "Enhancement of the Italian livestock heritage through advanced genomics, transcriptomics and proteomics tools applied to the selection for the quality of the products and animal welfare. Financing body: Budget: 480.000 €.
From 2018 to 2020	Responsible for the University of Tuscia of the Agreement with Campus Biomedico di Roma on research on molecular biomarkers in urine samples taken from autistic subjects in collaboration with the team of Prof. Persico Antonio budget: 30,000 €.

## HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

16/09/2019	<ul style="list-style-type: none"> <li>Award "Valore Uomo" for "the meticulous and constant study, starting from the search for the origins of life, contributes to improving the health and well-being of the individual" conferred by the association "Valore Uomo".</li> </ul>
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## ADDITIONAL INFORMATION

Publications From the last 5 years:

<https://orcid.org/0000-0001-8457-042X>View this author's ORCID profile

- Fanelli, G., Lelli, V., Rinalducci, S., Timperio, A.M. (2024). Amino Acid Metabolism in Leukocytes Showing In Vitro IgG Memory from SARS-CoV2-Infected Patients. *Diseases*, 12(3), 43.
- Giovannini, S., Li, Y., Pecorari, R., Timperio AM, ... Melino, G., Bernassola, (2024). F. Thioredoxin-interacting protein (TXNIP) is a substrate of the NEDD4-like E3 ubiquitin-protein ligase WWP1 in cellular redox state regulation of acute myeloid leukemia cells. *Molecular Oncology*
- Federica, G., Giuseppina, F., Veronica, L., ... Giuseppe, S., Maria, T.A. An untargeted metabolomic approach to investigate antiviral defence mechanisms in memory leukocytes secreting anti-SARS-CoV-2 IgG in vitro *Scientific Reports*, 2023, 13(1), 629
- Matte, A., Wilson, A.B., Gevi, F., ... Brugnara, C., Timperio AM De Franceschi, L.(2003) Mitapivat reprograms the RBC metabolome and improves anemia in a mouse model of hereditary spherocytosis *JCI Insight*, 2023, 8(20), e172656
- Ragusa, A., Lelli, V., Fanelli, G., ... Rinalducci, S., Timperio, A.M. (2022) Plastic and Placenta: Identification of Polyethylene Glycol (PEG) Compounds in the Human Placenta by HPLC-MS/MS System *International Journal of Molecular Sciences*, 2022, 23(21), 12743
- Timperio, A.M., Gevi, F., Cucinotta, F., ... Scattoni, M.L., Persico, A.M. (2022). Urinary Untargeted Metabolic Profile Differentiates Children with Autism from Their Unaffected Siblings *Metabolites*, 2022, 12(9), 797
- Fanelli, G., Gevi, F., Zarletti, G., ... Scapigliati, G., Timperio, A.M.(2022) An Altered Metabolism in Leukocytes Showing in vitro igG Memory From SARS-CoV-2-Infected Patients. *Frontiers in Molecular Biosciences*, 2022, 9, 894207
- Gevi, F., Leo, P., Cassaro, A., ... Timperio, A.M., Onofri, S. (2022) Metabolomic Profile of the Fungus *Cryomyces antarcticus* Under Simulated Martian and Space Conditions as Support for Life-Detection Missions on Mars *Frontiers in Microbiology*, 2022, 13, 749396
- Proietti, Silvia, Bertini, Laura, Falconieri, Gaia Salvatore, Baccelli, Ivan, Maria, Caruso, Carla (2021). A metabolic profiling analysis revealed a primary reprogramming in *Arabidopsis gly14* loss-of-function mutant. *PLANTS*, vol. 10, 7, doi: 10.3390/plants10112464.
- Onofri, Silvano, Nadia Balucani, Timperio, Anna Maria (2021). A metabolic profiling analysis revealed a primary metabolism reprogramming in *arabidopsis gly14* loss-of-function mutant. *ASTROBIOLOGY*, ISSN: 1557-8070, doi: 10.3390/plants10112464
- Lelli, Veronica, Molinari, Romina, Merendino, Nicolo', Timperio, Anna Maria (2021). Detection and Comparison of Bioactive Compounds in Different Extracts of Two Hazelnut Skin Varieties, Tonda Gentile Romana and Tonda Di Giffoni, Using a Metabolomics Approach. *METABOLITES*, vol. 11, ISSN: 2218-1989, doi: 10.3390/metabo11050296.
- Fanelli, Giuseppina, Coleine, Claudia, Gevi, Federica, Onofri, Silvano, Selbmann, Laura, Timperio, Anna Maria (2021). Metabolomics of Dry Versus Reanimated Antarctic Lichen-Dominated Endolithic Communities. *LIFE*, vol. 11, p. 1-13, ISSN: 0024-3019, doi: 10.3390/life11020096.
- Cirone, Mara, Gilardini Montani, Maria Saveria, Benedetti, Rossella, Piconese, Silvia, Pulcinelli, Fabio Maria, Timperio, Anna Maria, Romeo, Maria Anele, D'Orazi, Gabriella, Masuelli, Laura, Mattei, Maurizio, Bei, Roberto (2021). PGE2 released by pancreatic cancer cells undergoing ER stress transfers the stress to DCs impairing their immune function. *MOLECULAR CANCER THERAPEUTICS*, ISSN: 1535-7163, doi: 10.1158/1535-7163.MCT-20-0699.
- Amato, Rosario, Rossino, Maria Grazia, Cammalleri, Maurizio, Timperio, Anna Maria, Fanelli, Giuseppina, Dal Monte, Massimo, Pucci, Laura, Casini,

- Proietti S, Falconieri, GS, Bertini L, Baccelli I, Paccosi E, Belardo A, TIMPERIO A, Caruso C (2019). GLYI4 Plays A Role in Methylglyoxal Detoxification and Jasmonate-Mediated Stress Responses in Arabidopsis thaliana. BIOMOLECULES, vol. 9, p. 1-18, ISSN: 2218-273X, doi: 10.3390/biom9100635
- Bruno M. Bizzarri, Judit E. Šponer, Jiri Šponer, Giuseppe Cassone, Michail Kapralov, Gennady N. Timoshenko, [d] Eugene Krasavin, [d] Giuseppina Fanelli, TIMPERIO A, Ernesto Di Mauro, and Raffaele Saladino (2019). Meteorite-Assisted Phosphorylation of Adenosine Under Proton Irradiation Conditions. CHEMSYSTEMSCHEM, ISSN: 2570-4206, doi: doi.org/10.1002/syst.201900039