

## Europass Curriculum Vitae

### Personal information

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 Nationality Italian  
 Date of birth

### Work experience

**Since 2018:** Technical officer at DIMES, working at the Centre of Excellence for Biomedical Research (CEBR), now the Interdepartmental Centre of Excellence for Biomedical Research.

- Provides research support as an expert in analytical chromatography and spectrometry.
- Advanced skills in GC and LC coupled with Mass Spectrometry for qualitative/quantitative determination of synthetic and natural molecules.
- Responsible for hazardous waste management.
- Safety roles: fire emergency officer (high level), first aid, and BLSD.
- Member of the Department Council and Executive Board (2021, 2024).
- Technical Coordinator of the DIMES department (from 01/06/2025).
- Supports student and PhD tutoring.

**09/07/2018 - 08/12/2018:** Freelance professional work (contract no. 1783 of 04/04/2018) at DISTAV/CEBR.

- Developed a method for extraction and characterization of pharmacologically active compounds from edible saprotrophic macrofungi cultivated on unconventional substrates.

**15/12/2017 - 14/05/2018:** Freelance coordinated and continuous work (Rep. 5702/2017) at CEBR.

- Research support as analytical expert in Gas Chromatography and Mass Spectrometry.
- Determined PAHs extracted from skin PADS for worker exposure monitoring.

**03/12/2012 - 02/12/2017:** Research Fellow (grant no. 355 D.R. N. 832 of 14.09.2012, renewed 4 years), DIMES/DIPTERIS at CEBR.

- Project: Analysis of Porifera ECM extracts; protein characterization (collagen); in vitro cytotoxic molecules.
- Studied Chondrosia Reniformis collagen for recombinant collagen production.

**02/11/2011 - 01/11/2012:** Research Fellow (grant no. 275 D.R. N. 407 of 20.05.2011), DIMES/DIPTERIS at CEBR.

- Project: Proteomic analysis of Porifera ECM proteins and associated enzymatic molecules.
- Structural and enzymatic study of sponge collagen.

**02/11/2010 - 01/11/2011:** Research Fellow (grant no. 258 D.D.A. N. 551 of 22.06.2009, 1-year renewal), DIMES at CEBR.

- Project: Role of Abscissic Acid (ABA) in metabolic syndrome, type 2 diabetes, and atherosclerosis; development of anti-ABA drugs.
- HPLC/MS analysis and structural modification of ABA.

**01/2007 - 10/2009:** Coordinated and Continuous Collaboration Contract.

- Researcher at DIMES/CEBR, University of Genoa.
- Worked on activation, functionalization, and conjugation of carbon nanotubes with PNA-like molecules.
- Qualitative/quantitative ABA analysis in human cell extracts

**04/2003 - 05/2006:** Coordinated and Continuous Collaboration Contract

- Researcher at DIMES/CEBR, University of Genoa

- FIRB project: synthesis, purification, and HPLC-MS characterization of pharmacologically active molecules for encapsulation in erythrocytes.
  - Contributed to sequencing silicatein from *Petrosia Ficiformis* using advanced ionization techniques (API, ESPI, MALDI).
  - Studied inhibitory peptide-mimetics of Bcl XL and c-myc.
  - Protein separation and analysis from complex mixtures
- 2002 - 2003:** Coordinated and Continuous Collaboration Contract.
- At DIMES/CBA, University of Genoa.
  - Structural characterization of molecules using LC-MS.
- 2000 - 2002:** Intern Student (Thesis).
- DIMES/CBA, University of Genoa.
  - Learned synthesis and characterization (MS and LC/MS) of peptides and PNA, used in biological systems for therapeutic purposes.

## Education

All higher education completed at the University of Genoa.

- **2006:** PhD in Molecular, Experimental, and Clinical Biology, specialization in Biochemistry.
  - Thesis: "Characterization by mass spectrometry of proteins forming the axial filament of *Petrosia Ficiformis* spicules: confirmation of amino acid sequence deduced from cDNA."
- **2002:** Master's degree in Pharmaceutical Chemistry and Technology (CTF), score: 101/110.
  - Thesis: "Solid-phase synthesis strategies for PNA-peptide chimeras with disulfide bonds for intracellular release of active PNAs."

## Personal skills and competences

Mother tongue(s)

Italian

English language

- Reading: Good
- Writing: Good
- Speaking: Basic

## Technical skills and competences

### Technical-scientific (chemical-biological):

- Laboratory instrumentation management
- Scientific experiment planning and execution
- Occupational safety and waste handling

### Laboratory:

- Biochemistry and molecular/cellular biology
- Analytical chemistry
- Enzymology
- Spectrophotometric studies (UV/Vis/fluorescence)
- Mass spectrometry and chromatography of intracellular metabolites
- Protein purification and analysis (soluble and membrane proteins)
- Membrane protein reconstitution and function in liposomes
- Nucleotide transport studies in cell and artificial systems
- Signal transduction studies (phosphorylation, ADP-ribosylation, calcium assays)
- Erythrocyte engineering for drug delivery/bioreactors
- Classical cell culture
- Molecular cloning techniques (nucleic acid extraction, electrophoresis, PCR/RT-PCR, plasmid cloning, bacterial/eukaryotic transformation/transfection)
- Solid-phase synthesis
- GC-MS, HPLC-MS (ESI-MS, Ion Trap-MS), MALDI-TOF, nanoHPLC-HR/MS

	<p><b>Scientific Research:</b></p> <ul style="list-style-type: none"><li>• Continuously active in research since 2000 at DIMES/MS Lab, University of Genoa</li><li>• Worked with Prof. Gianluca Damonte and Prof. Enrico Millo</li><li>• Collaborated across DIMES, DIFAR, DISTAV, DIMI departments</li><li>• Participated in biomedical and biotechnological research projects (PRIN, FIRB, AIRC, CARIGE, SAN PAOLO)</li><li>• Focus on qualitative and quantitative characterization of metabolites (ABA, ADPR, proteins, hormones, etc.)</li></ul> <p><b>Scientific Output:</b></p> <ul style="list-style-type: none"><li>• Over 90 publications in international journals</li><li>• 5 patents</li></ul>
Relational Skills:	<ul style="list-style-type: none"><li>• Tutor for thesis students in CTF, Pharmacy, Biology, and PhD in Biochemistry</li><li>• Practical/theoretical biochemistry tutor for Medicine students</li><li>• Collaboration with faculty and researchers from DIMES, DIFAR, DIMI</li></ul>
Organizational Skills (Roles):	<ul style="list-style-type: none"><li>• Fire emergency manager (D.R. n° 20223 of 27.05.2020)</li><li>• First aid and BLSD officer (UNIGE)</li><li>• Toxic waste management contact person</li><li>• Member of DIMES Department Council (since 2021)</li><li>• Member of DIMES Executive Board (since 2024)</li><li>• Technical Coordinator of the DIMES department (from 01/06/2025).</li></ul>
Teaching Roles:	<ul style="list-style-type: none"><li>• Adjunct professor (Law 240/2010, Art. 23) at DISTAV, University of Genoa</li><li>• Course: Biological Chemistry and Laboratory (code 65531), BSc in Biology (from academic year 2015-2016 to present)</li></ul>

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Date, 13/08/2025

Signature

Dott.ssa Annalisa Salis