

CURRICULUM VITAE

PERSONAL INFORMATION

First name - surname

MARCO SALER

Address

Location of the Lab

EXPERIMENTAL SURGERY LABORATORY

Lab address

VIA FERRATA 9, 27100, PAVIA

Telephone

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marco.saler@unipv.it

Nazionalità

Italian

Date of birth

22 / 04 / 1988

WORK EXPERIENCES

- Date February 2026 - present
- Organisation name University of Pavia
Prof. Dr. Giovanni Nicoletti
- Sector Department of Clinical-Surgical, Paediatric and Diagnostic Sciences – Section of Surgery and Anaesthesiology – Plastic Surgery Unit
- Employment Type Full-time Research Technologist
- Key Roles and Responsibilities Research Project: "Innovative cell culture models - Development of an ex-vivo human skin culture model with extended viability"
Research Project: "Investigation of Thermal Water Properties and Their Effects on Cell Cultures"

- Date October 2025 - present
- Organisation name University of Pavia – 3R Center
Prof.ssa Lisa Visai - Prof. Dr. Giovanni Nicoletti
- Sector Interuniversity Center for the Promotion of the 3Rs Principles in Teaching and Research
- Employment Type Full-time member of the following working groups
 - "Technology Transfer"
 - "Networking"
 - "New Generation"
- Key Roles and Responsibilities Planning for the implementation of the 3R Center program:
 - "Technology Transfer": Analysis of New Approach Methodologies (NAMs) developed by members and collaborating institutions of the 3R Center for potential inter-laboratory application.
 - "Networking": Development of synergistic actions with national and international scientific societies and international 3R promotion centers for event organization.
 - "New Generation": Promotion of the 3R Center's goals to students, PhD candidates, and early-career researchers.

- Date October 2025 – January 2026
- Organisation name University of Pavia
Prof. Dr. Giovanni Nicoletti
- Sector Department of Clinical-Surgical, Paediatric and Diagnostic Sciences – Section of Surgery and Anaesthesiology – Plastic Surgery Unit
- Employment Type Full-time Project-Based Consultant
- Key Roles and Responsibilities Research Project: "Innovative cell culture models - Development of an ex-vivo human skin culture model with extended viability"

- Date October 2022 – September 2026

• Organisation name	University of Pavia – University Career Service
• Sector	Proff. Marco Biggiogera, Maria Grazia Bottone, Maurizio Zuccotti, Valeria Merico, Federica Riva
• Employment Type	Department of Biology and Biotechnology
• Key Roles and Responsibilities	Teaching Assistant for Histology and Medical Biotechnology – Bachelor's Degree in Biotechnology
• Date	Observing and describing human and animal histological slides
• Organisation name	July 2021 – September 2022
• Sector	University of Pavia
• Employment Type	Prof. Dr. Giovanni Nicoletti
• Key Roles and Responsibilities	Department of Clinical-Surgical, Paediatric and Diagnostic Sciences – Section of Surgery and Anaesthesiology – Plastic Surgery Unit
• Date	Full-time Research Fellowship
• Organisation name	Research Project: "Development of an ex-vivo human skin culture model with extended viability"
• Sector	March 2017 - present
• Employment Type	University of Pavia
• Key Roles and Responsibilities	Proff. Dott.ssa Angela Faga e Dr. Giovanni Nicoletti
• Date	Interdepartmental Center for Applied Technologies in Regenerative Medicine and Inductive Surgery (T.A.Me.R.I.C.I.)
• Organisation name	Co-opted Member of the Executive Committee
• Sector	Planning and implementing the Center's activities:
• Employment Type	- Development of collaborations in research projects
• Key Roles and Responsibilities	
• Date	October 2016 – September 2026
• Organisation name	University of Pavia – University Career Service
• Sector	Proff. Dr. Andrea Casasco e Dott.ssa Federica Riva
• Employment Type	Department of Public Health, Experimental and Forensic Medicine – General Histology and Embryology Unit
• Key Roles and Responsibilities	Teaching Assistant for Histology – Single-Cycle Master's Degree in Medicine and Surgery
• Date	Observing and describing human and animal histological slides
• Organisation name	April 2015 - present
• Sector	University of Pavia
• Employment Type	Proff. Dott.ssa Angela Faga e Dr. Giovanni Nicoletti
• Key Roles and Responsibilities	Department of Clinical-Surgical, Paediatric and Diagnostic Sciences – Section of Surgery and Anaesthesiology – Plastic Surgery Unit
• Date	Full-time student support activities
• Organisation name	Co-supervising Bachelor's and Master's degree theses in biomedical sciences
• Sector	
• Employment Type	
• Key Roles and Responsibilities	
• Date	July 2015 – June 2021
• Organisation name	University of Pavia
• Sector	Proff. Dott.ssa Angela Faga e Dr. Giovanni Nicoletti
• Employment Type	Department of Clinical-Surgical, Paediatric and Diagnostic Sciences – Section of Surgery and Anaesthesiology – Plastic Surgery Unit
• Key Roles and Responsibilities	Research Fellowship
• Date	Research Project: "Stimulation of human fibroblast and keratinocyte proliferation via the administration of micro-organically derived protein molecules in in-vitro and ex-vivo cultures"
• Organisation name	Research Project: "The role of spring waters microbiota in skin regeneration" (FoRST project)
• Sector	
• Employment Type	
• Key Roles and Responsibilities	
• Date	October 2016

• Organisation name	University of Trento
• Sector	Proff. Oliver Jousson and Nicola Segata Department of Cellular, Computational and Integrative Biology - Centre for Integrative Biology (CiBIO)
• Employment Type	Full-time hands-on training
• Key Roles and Responsibilities	Hands-on microbiological training on environmental samples: – DNA extraction techniques for complex environmental samples and sequencing library preparation for bacterial genomes and metagenomes on the Illumina platform; – Development of bacterial cultures and microbiological and biochemical research techniques.
• Date	March 2014 – June 2015
• Organisation name	University of Pavia
• Sector	Prof.ssa Dott.ssa Angela Faga - Dott.ssa Federica Riva Interdepartmental Center for Applied Technologies in Regenerative Medicine and Inductive Surgery (T.A.Me.R.I.C.I.) Department of Clinical-Surgical, Paediatric and Diagnostic Sciences – Section of Surgery and Anaesthesiology – Plastic Surgery Unit
• Employment Type	Full-time hands-on training
• Key Roles and Responsibilities	Hands-on training on: – Development of ex-vivo and in-vitro tissue cultures; – Application of immunohistochemical and histochemical techniques; – Application of microscopy techniques (brightfield, darkfield, and electron microscopy).
• Date	July 2005 – August 2006
• Organisation name	Prof. Dr. Mario Clerico
• Sector	ASL 12 – Biella Hospital
• Employment Type	Full-time Volunteer at the Oncology Center
• Key Roles and Responsibilities	Hands-on training: – Providing secretarial and administrative support; – Analyzing and reorganizing digital databases for oncology patients.

EDUCATION

• Date	October 2022 – September 2025
• Name and type organisation providing education and training	University of Pavia PhD in Biomedical Science – Medicine course
• Principal subjects / occupational skills covered	Research Project: "Innovative cell culture models - Development of an ex-vivo human skin culture model with extended viability"
• Qualification	PhD in Biomedical Science Experimental Thesis: <i>"Development of an experimental wound model on ex-vivo human skin culture with extended viability"</i> Supervisor: Dott. Proff. Francesco Benazzo e Gian Luigi Marseglia
• Date	September 2011 - February 2014
• Name and type organisation providing education and training	University of Pavia Faculty of Medicine and Surgery - Interfaculty Master's Degree in Medical and Pharmaceutical Biotechnology - Corso Interfacoltà di Laurea Magistrale in Biotecnologie Mediche e Farmaceutiche
• Principal subjects / occupational skills covered	Human and Pathological Biochemistry, Histology, Anatomy and Physiology, Pharmacology, Immunology and General Pathology, Biopharmaceutics, Oncology and Pathological Anatomy, Plastic Surgery
• Qualification	M.Sc. in Medical and Pharmaceutical Biotechnology

• Date • Name and type organisation providing education and training • Principal subjects / occupational skills covered • Qualification	Experimental Thesis: <i>"Potential use for regenerative medicine of adipose-derived stem cells and mature adipocyte-dedifferentiated cells: in-vitro comparison of their differentiation capacity"</i> Supervisor: Dott. Prof. Francesco Benazzo September 2007 - July 2011 University of Pavia Faculty of Mathematical, Physical and Natural Sciences - Bachelor's Degree in Biological Sciences Inorganic and Organic Chemistry, Physics, Cytology and Histology, Comparative Anatomy, General and Human Physiology, Biochemistry, Bioinformatics, Genetics, Pharmacology and Toxicological Analysis, Cytopathology, Molecular Biology, Microbiology, Virology, Biometrics B.Sc. in Biological Sciences Experimental Thesis: <i>"Characterization of the breast carcinoma microenvironment in terms of Hypoxia-Inducible Factor-1α expression and vitamin A presence"</i> Supervisor: Prof. ssa Buceta Sande de Freitas Maria Isabel September 2002 – June 2007 Istituto Tecnico Industriale Statale "Q. Sella" Liceo Tecnico indirizzo Salute sperimentale orientamento: gestione dei servizi della persona Inorganic and Organic Chemistry, Physics, Anatomy and Physiology, Biochemistry, Pharmacology, Hygiene and Health Education Technical High School Diploma
PERSONAL SKILLS	Through hands-on experience in multiple research laboratories and direct collaboration with faculty and researchers, I integrated my academic background with advanced technical skills in state-of-the-art instrumentation.
NATIVE SPEAKER	ITALIAN
OTHER LANGUAGES	ENGLISH
• Reading • Writing • Speaking	B2 – UPPER-INTERMEDIATE B2 – UPPER-INTERMEDIATE B1 – INTERMEDIATE
INTERPERSONAL, SOCIAL AND ORGANIZATIONAL COMPETENCIES	– Strong ability to work both independently and collaboratively within a team. – High adaptability to dynamic, fast-paced, and multicultural environments. – Proven ability to manage varied workloads, maintain high accuracy, and consistently meet tight deadlines.
TEACHING ACTIVITIES, SEMINARS & CONFERENCES	Co-supervisor: - of a Master degree in Medicine and Surgery (Golgi course). Title: <i>"Development of an experimental wound model in extended-viability ex-vivo human skin culture"</i> – Department of Clinical, Surgical and Pediatric Sciences; Plastic Surgery Unit (Head Prof. Giovanni Nicoletti); University of Pavia (February 2026); - of a Bachelor of Science in Biotechnology. Title: <i>"Extension of viability in ex-vivo human skin cultures using Platelet-Rich Plasma (PRP)"</i> – Department of Clinical, Surgical and Pediatric Sciences; Plastic Surgery Unit (Head Prof. Giovanni Nicoletti); University of Pavia (February 2026); - of a Master degree in Medical and Pharmaceutical Biotechnology. Title: <i>"Study of the regenerative effects of bacterial lysates derived from Comano thermal water on ex-vivo human skin cultures"</i> – Department of Clinical, Surgical and Pediatric Sciences; Plastic Surgery Unit (Head Prof. Giovanni Nicoletti); University of Pavia (February 2020); - of a Master degree in Medical and Pharmaceutical Biotechnology. Title: <i>"Enhanced the</i>

viability of ex-vivo human skin cultures using Platelet-Rich Plasma (PRP)” - Department of Molecular Medicine (Head Prof. Angela Faga); University of Pavia (February 2018);

- of a Master degree in Medicine and Surgery (Harvey Course). Title: *“In vitro and ex-vivo regenerative effects of a spring water on human skin fibroblasts”* – Department of Clinical, Surgical and Pediatric Sciences; Plastic Surgery Unit (Head Prof. Angela Faga); University of Pavia (luglio 2016).

Seminars & Conferences

- Title: *“The Tissue Bank: 2D and 3D Cell Cultures with Sample Analysis Techniques”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Giovanni Nicoletti – University of Pavia (2023)
- Title: *“Laboratory and Safety: The Tissue Bank and Study Techniques on Ex-Vivo Biopsy Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Giovanni Nicoletti – University of Pavia (2022)
- Title: *“Laboratory and Study Techniques on Ex-Vivo Biopsy Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Giovanni Nicoletti – University of Pavia (2021)
- Title: *“Laboratory and Viability Enhancement of Ex-Vivo Biological Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Giovanni Nicoletti – University of Pavia (2020)
- Title: *“Laboratory: Safety and Analytical Techniques for Biological Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Giovanni Nicoletti – University of Pavia (2019)
- Title: *“Laboratory and Techniques for the Study of Biological Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Angela Faga – University of Pavia (2018)
- Title: *“Laboratory and Techniques for the Study of Biological Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Angela Faga – University of Pavia (2017)
- Title: *“Laboratory and Techniques for the Study of Biological Samples”* – Course on Biotechnology Applications in Plastic Surgery – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Prof. Angela Faga – University of Pavia (2016)
- Title: *“Adipose-Derived Stem Cells and Dedifferentiated Adipocytes: Potential Clinical Applications”* – Course in Biochemistry and Cell Biology, Module: Experimental and Applied Histology – Master’s Degree (M.Sc.) in Medical and Pharmaceutical Biotechnology – Dr. Federica Riva – University of Pavia (2016)
- Title: *“Organism Genesis: From the Stem Cell Concept to the Defined Entity”* – ITIS Q. Sella High School – Biella (2016)
- Title: *“Tissue Engineering Techniques and Applications”* – “Q. Sella” Technical High School (ITIS) – Biella, Italy (2014)

TECHNICAL SKILLS

Expertise	Level
National Center for Biotechnology Information	In-depth knowledge
E.C.D.L. core: Modulo 1-7 – Livello Base (2006)	In-depth knowledge
ICDL IT-Security e Cyber Security	In-depth knowledge
I.C.D.L.: Modulo 1-7 – Livello Specialised (2018)	In-depth knowledge

ADDITIONAL SKILLS & COMPETENCIES

- 2019 – Present: served as Polling Station President (Electoral Board Chairperson) during national, local, and referendum elections.
- 2006 – 2018: served as Deputy Chairperson / Vice President and Electoral Teller at polling stations during elections and referendums.

**AGGIORNAMENTO
PROFESSIONALE
(CORSI, WORKSHOP,
CONVEGNI E CONGRESSI)**

- X° Conference CHT: "Research and Nanomedicine" (University of Pavia, 17 June 2026)
- Training course: "5D in-vitro models: a step closer to humans" (Padova, IVTech srl, 28-29 May 2026)
- XXIX° Advanced Training Course: "Microbiota" (Collegio Ghislieri, Pavia, 13-15 May 2026)
- Conference: "Next Gener3Ration Research" (University of Genova, 3R Center, 13-15 September 2025)
- XXIII° Advanced Training Course: "Aging" (Collegio Ghislieri, Pavia, 14-16 May 2025)
- XXII° Advanced Training Course: "Artificial Intelligence in Biologia e Medicina" (Collegio Ghislieri, Pavia, 8-10 May 2024)
- Annual meeting: "The role of 3Rs in the age of One Health" (University of Milano – Bicocca, 13-15 September 2023)
- Training course: "Flow Cytometry" (University of Pavia, Centro Grandi Strumenti, May-June 2023)
- XXI° Advanced Training Course: "Single Cell Genomics: dalla singola cellula alle prospettive cliniche" (Collegio Ghislieri, Pavia, 3-5 May 2023)
- 95° Congress SIBS (12-15 April 2023, Trieste)
- Training course: "3D in-vitro models: a step closer to humans" (IVTech srl, 18 November 2022, Pisa)
- Workshop: "Approcci innovativi in ambito cosmetico, in ottemperanza con la regolamentazione Europea" (University of Genova, Centro 3R, 22-23 June 2022)
- XX° Advanced Training Course: "CAR-T cells" (Collegio Ghislieri, Pavia, 4-6 May 2022)
- XIX° Advanced Training Course: "Editing del genoma e Medicina genomica" (Collegio Ghislieri, Pavia, 21-23 April 2021)
- Webinar: "Biotech and Advanced Therapies at a Glance" (ASCCA, ISPE Italy, PDA Italy, 24-26 November 2020)
- XVIII° Advanced Training Course: "Immunoterapia" (Collegio Ghislieri, Pavia, 22-24 May 2019)
- V° Conference: "Microbiota: tra ricerca di base e applicazioni cliniche" (Comano Terme, 6 October 2018)
- IV° Conference: "Microbiota: le nuove frontiere della Medicina" (Comano Terme, 21 October 2017)
- Training course: "Medicina Rigenerativa, Terapie Avanzate e Cell Factory" (University of Pavia, EuroClone S.p.A., GISM, 12-13 September 2017)
- I° Conference (CHT): "Wound Healing and Monitoring". (University of Pavia, 16-17 June 2017)
- Workshop of Centre for Health Technologies (CHT): "Ricerca e Nanomedicina" (University of Studi di Pavia, 6 June 2017)
- XVI° Advanced Training Course: "Autofagia: fisiologia e malattie correlate" (Collegio Ghislieri, Pavia, 26-28 April 2017)
- Workshop of Centre for Health Technologies (CHT): "Research and Nanomedicine" (University of Pavia, 20 June 2016)
- XV° Advanced Training Course: "Infiammazione, Cancro e Malattie Degenerative" (Collegio Ghislieri, Pavia 17-20 May 2016)
- Workshop of Centre for Health Technologies (CHT): "Current research topics at CHT" (University of Pavia, 19 April 2016)
- Italian Cell Culture Association (AICC) Conference: "Sopravvivenza e morte cellulare: nuove acquisizioni e ricadute applicative" (Istituto Superiore di Sanità, Roma, 18 April 2016)
- Workshop of PhD School in Chemical and Pharmaceutical Sciences: "Tissue repair: from biochemical mechanism to formulation approaches" (CHT – University of Pavia, 10 March 2016)
- 18° Giornata di Studio sulle Cellule Staminali (UniStem), "La cellula e l'individuo nell'era della genomica" (Milano, 22 January 2016)
- GISM annual meeting (Brescia, 8-9 October 2015)
- II° Conference: "Microbiota: salute, terme e alimentazione" (Comano Terme, 2 October 2015)

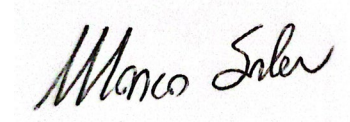
	2015)
	- XIV° Advanced Training Course: “ <i>Cellule Rare e Circolanti</i> ” (Collegio Ghislieri, Pavia 12-15 May 2015)
SCIENTIFIC ACTIVITIES	Current Research Projects - “Enhancement of Tissue Viability in Skin Biopsies Using Static and Dynamic Culture Models” (Co-Investigator) (2021 – present) - “Investigation of Thermal Water Properties and Their Effects on Cell Cultures” (Co-Investigator) (2020 – present) - “The role of spring water microbiota in tissue regeneration” (Co-Investigator) - Project Co-Funded by the Foundation for Thermal Scientific Research (FoRST) – (2017 – 2020) Peer Review Activities for: - International Journal Molecular Science - Materials
SCIENTIFIC MEMBERSHIPS	Member of the Italian Society for Experimental Biology (SIBS)
ADDITIONAL INFORMATION	- Driving License: Italian Driving License (Category B) – Owner of a private vehicle. - Holder of a valid international passport
SCIENTIFIC PUBLICATIONS	- Lucà F, Fioravanti L, Scevola S, Arpino A, Saler M, Nicoletti G. “An Update on the Role of Sirtuins in the Prevention of the Aging Process: A Narrative Review”. <u>Journal of Gerontology and Geriatrics</u>, doi: 10.3390/jgg74010006, 2026 - Scevola S, Saler M, Faga A, Nicoletti G. “The dorsum of the hand: Focus on topographic anatomy”. <u>Aesthetic Medicine</u>, doi: 10.57662/am.v11i3.17214, 2025 - Kuka A, Mileto I, Saler M, Petazzoni G, Corbella M, Baldanti F, Faga A, Nicoletti G. “Native bacterial communities of two italian salso-bromo-jodic and sulphurous natural mineral waters”. <u>Microorganisms</u>, doi: 10.3390/microorganisms13051038, 2025 - Saler M, Ferraro O, Faga A, Sansotta D, Villani S, Nicoletti G. “Enhancement of human native skin fibroblast proliferation in natural salso-bromo-iodic mineral water added to in-vitro culture”. <u>Advances in Clinical and Experimental Medicine</u>, doi:10.17219/acem/192227, 2024 - Nicoletti G, Saler M, Moro U, Faga A. “Dysembryogenetic pathogenesis of Basal Cell Carcinoma: the evidence to date (Review)”. <u>International Journal of Molecular Sciences</u>, doi:10.3390/ijms25158452, 2024 - Nicoletti G, Saler M, Tresoldi MM, Villani L., Tottoli EM, Jousson O, Faga A. <i>Effects of Comano Spring Water-derived Bacterial lysates on skin regeneration: an ex-vivo study</i>. <u>In Vivo</u>, 37:2498-2509, doi:10.21873/invivo.13357, 2023 - Nicoletti G, Saler M, Villani L, Rumolo A, Tresoldi MM, Faga A. “Platelet Rich Plasma enhancement of skin regeneration in an ex-vivo human experimental model”. <u>Frontiers in Bioengineering and Biotechnology</u>, doi:10.3389/fbioe.2019.00002, 2019 - Nicoletti G, Saler M, Tresoldi MM, Scevola S, Faga A. “Unrecognized Cell Torpidity as a Risk Factor in Elective Plastic Surgery”. <u>Plastic and Reconstructive Surgery Global Open</u>, 6:e1727, doi: 10.1097/GOX.0000000000001727, 2018 - Saler M, Calìogna L, Riva F, Gastaldi G. “hASC and DFAT, multipotent stem cells for tissue engineering: comparison of their potential differentiation in-vitro”. <u>International Journal of Molecular Sciences</u>, doi:10.3390/ijms18122699, 2017 - Nicoletti G, Saler M, Pellegatta T, Tresoldi MM, Bonfanti V, Malovini A, Faga A, Riva F. “Ex-vivo regenerative effects of a spring water”. <u>Biomedical Reports</u>, 7:508-514, 2017 - Pellegatta T, Saler M, Bonfanti V, Faga A. “Microbiota and Tissue Regeneration: novel scenarios in Regenerative Medicine and Surgery (Review)”. <u>Biomedical Reports</u>, 5(5):519-524, 2016 - Nicoletti G, Saler M, Pellegatta T, Faga A, Riva F. “Effects of a spring water on human skin fibroblasts in-vitro cultures: preliminary results”. <u>Acta Vulnologica</u>, 14:(4):196-201, 2016

The undersigned, aware that—pursuant to Art. 76 of Presidential Decree (D.P.R.) no. 445/2000—false statements, falsification of documents, and the use of forged documents are punishable under the Italian Criminal Code and special laws, hereby declares that the information provided is true and accurate.

The undersigned declares having received the personal data processing information notice published at the following link:
<https://privacy.unipv.it>.

The undersigned authorizes the processing of their personal data pursuant to Legislative Decree no. 196 of June 30, 2003 ("Personal Data Protection Code").

Pavia, 16 September 2026

A handwritten signature in black ink, reading "Marco Saler". The signature is written in a cursive style with a large, stylized 'M' and 'S'.