europass

curriculum vitae

Personal information

Surname(s) / First name(s)	**Visai Livia**
Telephone(s)	0039 0382 987725
Fax(es)	0039 0382 423108
E-mail(s)	livia.visai@unipv.it and livia.visai@icsmaugeri.it
Nationality(-ies)	Italian
Gender	Female
Bibliometric data:	**Scopus HI: 52** **Web of science HI: 50** **Google Scholar HI: 62**

Occupational field

-Associate Professor in Biochemistry at the Department of Molecular Medicine, Faculty of Medicine, University of Pavia, Italy.

-Associate Professor within the national health service of Scientific Clinical Institutes (ICS) Maugeri, IRCCS, Italy

Work experience

Dates	**March 2021**
Occupation or position held	**Referent of the Lombardy aerospace cluster (https://www.aerospacelombardia.it/en/)**
Main activities and responsibilities	Scientific advisor
Name and address of employer	c/o Confindustria Varese – Piazza Monte Grappa 5 – 21100 Varese – Italia
Type of business or sector	Aerospace

Dates	**June 2020**
Occupation or position held	**Co-founder of the Start Up Bac3Gel, Portugal (https://bac3gel.com/home/)**
Main activities and responsibilities	Scientific advisor
Name and address of employer	Bac3gel LTD, Av. Jacques Delors Edifício Inovação II, nº 411, Laboratório 2, 2740-122 - Oeiras
Type of business or sector	Spin off of the Polytechnic of Milano, Milano Italy

Dates	**July 2019 and now 2023**
Occupation or position held	**Vice director of Health professions of rehabilitation of UNIPV, Class 2**
Main activities and responsibilities	Vice director
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy

Type of business or sector	Coordination and activities related Health professions of rehabilitation, Class 2
Dates	**November 2018 up 2024**
Occupation or position held	**Referent and coordinator of UNIPV of the "3R Inter-University Center" (https://www.centro3r.it/)**
Main activities and responsibilities	Scientific and didactic contacts
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Activities related to the 3R center
Dates	**July 2018 up to 2025**
Occupation or position held	**Nominee as a member of the joint commission of Medicine Faculty**
Main activities and responsibilities	Activities related to joint commission of Medicine Faculty
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Activities related to joint commission of Medicine Faculty
Dates	**March 2018 up to 2025**
Occupation or position held	**ISTEC-CNR Associate position**
Main activities and responsibilities	Research activities
Name and address of employer	Istec CNR **(www.istec.cnr.it/),** Via Granarolo, 64 - 48018 Faenza (RA), Italy
Type of business or sector	Activity related to research
Dates	**January 2018 up to 2024**
Occupation or position held	**Advisor at Scuola Avanzata di Alta Formazione Dottorale (SAFD) (http://phd.unipv.it/safd-scuola-di-alta-formazione-dottorale/)**
Main activities and responsibilities	All the scientific and organizing activities of SAFD
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Activity related to the Ph.D. courses in Science for life
Dates	**September 2023**
Occupation or position held	**Member of the Scientific Committee of the Italian Society for Biomaterials (SIB) , http://www.biomateriali.org/ (since 2006)**
Main activities and responsibilities	All the scientific and organizing activities of SIB
Name and address of employer	Politecnico di Milano, Milano, Italy
Type of business or sector	Scientific Research and Teaching Activity in Medical Science
Dates	**April 2017 up to 2026**
Occupation or position held	**Vice-Coordinator of the Ph. D programme in Translational Medicine (http://molecularmedicine.unipv.it/phd-programme/)**
Main activities and responsibilities	Ph. D programme
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Scientific Research and Teaching Activity in Medical Science
Dates	**June 2016- 20219**
Occupation or position held	**Member of the Scientific Committee of the Foundation of the European Centre for Nanomedicine (CEN), http://nanomedicen.eu/**
Main activities and responsibilities	All the activities that compete as a member of the scientific committee of the CEN.
Name and address of employer	Centro Europeo di Nanomedicina, Piazza Leonardo da Vinci 32, 20133 Milano, Italy
Type of business or sector	Member of the Scientific Committee of CEN

Dates	**June 2016**
Occupation or position held	**Type A Researcher at INSTM (http://www.instm.it/)**
Main activities	Research activities and grant applications
Name and address of employer	INSTM, Via G. Giusti, 9, 50121 Firenze (ITALY)
Type of Business or sector	Scientific Research

Dates	**July 2015**
Occupation or position held	**Associate professor at Istituti Clinici Maugeri, IRCCS https://www.icsmaugeri.it/per-i-ricercatori/laboratori-ricerca/laboratorio-di-nanotecnologie**
Main activities and responsibilities	Nanotechnology Laboratory
Name and address of employer	ICS Maugeri, Società Benefit SpA, IRCCS, Via S.Boezio, 28, 27100 Pavia, Italy
Type of business or sector	Scientific Research and Teaching Activity in Medical Science

Dates	**June 2015**
Occupation or position held	**Referent of the academic strategic project of Centre for Health Technologies (CHT), http://cht.unipv.it/index.php/it/ (2015-2017)**
Main activities and responsibilities	Head of the Nanomedicine pillar
Name and address of employer	Via Ferrata 1, University of Pavia, 27100 Pavia, Italy
Type of business or sector	Scientific Research and Teaching Activity in Medical Science

Dates	**June 2015**
Occupation or position held	**Associate Professor in Biochemistry at the Department of Molecular Medicine of Medicine Faculty http://molecularmedicine.unipv.it/reseach-groups/biochemistry/l-visai/**
Main activities and responsibilities	Scientific Research Activities in the application of Nanotechnology on International Space Station (ISS) with Samantha Cristoforetti (2015), on tissue Engineering/ regenerative medicine and on the reduction of bacterial infections. Teaching Activity at the Faculty of Medicine
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	**Scientific Research and Teaching Activity in Medical Science**

Dates	**June 2009 up to September 2015**
Occupation or position held	**Vice-Director of the Interdepartmental Center for Tissue Engineering (CIT)**
Main activities and responsibilities	Scientific Research Activities in Tissue Engineering
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Scientific Research in Medical Science

Dates	**September 2011 up to Dicember 2014**
Occupation or position held	**Head of the Nanotechnology Laboratory at Fondazione Salvatore Maugeri, IRCCS**
Main activities and responsibilities	Scientific Research Activities in Nanotechnology and Nanomedicine
Name and address of employer	Fondazione Salvatore Maugeri, IRCCS, 27100 Pavia , Italy
Type of business or sector	Scientific Research in Medical Science

Dates	**September 2011 and September 2012**
Occupation or position held	**Visiting Professor in USA**
Main activities and responsibilities	Projects discussion
Name and address of employer	Prof Mauro Ferrari, The Methodist Hospital Research Institute (MHRI), Houston, Texas, USA and Prof. Magnus Hook, "Center for Extracellular Matrix Biology" at the Institute of Biosciences and Technology of the Texas A&M University System Health Science Center, Houston, Texas, USA.

Type of business or sector	Scientific Research in Medical Science
Dates	**July 2009**
Occupation or position held	**Visiting Professor in USA**
Main activities and responsibilities	Project discussion in a bilateral project USA/ITALY
Name and address of employer	Prof. Magnus Hook, "Center for Extracellular Matrix Biology" at the Institute of Bioscences and Technology of the Texas A&M University System Health Science Center, Houston, Texas, USA
Type of business or sector	Scientific Research in Medical Science
Dates	**2006 - 2016**
Occupation or position held	Member of **the Doctorate** "**Biologia e Biotecnologia Molecolare**" of **Perugia University,Italy**
Main activities and responsibilities	Ph.D programme in Biochemistry
Name and address of employer	University of Perugia, Perugia, Italy
Type of business or sector	Scientific Research and teaching activity in Medical Science
Dates	**2005 - 2015**
Occupation or position held	**Assistant Professor in Biochemistry**
Main activities and responsibilities	Scientific Research Activities and Teaching Activity at the Faculty of Medicine: Degree in Health Care Professions
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Scientific Research in Medical Science
Dates	**June - August 2001**
Occupation or position held	**Research Assistant in Biochemistry in USA**
Main activities and responsibilities	Research collaboration with Prof. Magnus Hook
Name and address of employer	Prof. Magnus Hook, "Center for Extracellular Matrix Biology" at the Institute of Bioscences and Technology of the Texas A&M University System Health Science Center, Houston, Texas, USA
Type of business or sector	Scientific research in Medical Science
Dates	**1997 – 2005**
Occupation or position held	**Confirmed Researcher in Biochemistry**
Main activities and responsibilities	Scientific Research Activities and Teaching Activity at the Faculty of Medicine: Degree in Health Care Professions
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of Business or Sector	Scientific research in Medical Science
Dates	**1994 – 1997**
Occupation or position held	**Researcher in Biochemistry**
Main activities and responsibilities	Scientific Research Activities and Teaching Activity at the Faculty of Medicine: Degree in Health Care Professions
Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Scientific research in Medical Science
Dates	**June 1992 – June 1994**
Occupation or position held	**Post-Doc in Biochemistry**
Main activities and responsibilities	Scientific Research Activities on biochemical and immunological characterization of bacterial adhesins

Name and address of employer	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Type of business or sector	Scientific research in Medical Science
Dates	**June 1989 – June 1992**
Occupation or position held	**Fellowship in Biochemistry**
Main activities and responsibilities	Scientific Research Activities on biochemical and immunological characterization of bacterial adhesins
Name and address of employer	Officina Farmaceutica Mastelli of San Remo, San Remo, Italy
Type of business or sector	Scientific research in Medical Science

Education and training

Dates	**July 1985- July 1989**
Title of qualification awarded	**PhD in biochemistry**
Principal subjects/Occupational skills covered	Scientific Research Activities on biochemical and immunological characterization of bacterial adhesins
Name and type of organisation providing education and training	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Level in national or international classification	National
Dates	**July 1985- July 1987**
Title of qualification awarded	**Research Fellowship in biochemistry In USA**
Principal subjects/Occupational skills covered	Scientific Research Activities on biochemical and immunological characterization of bacterial adhesins
Name and type of organisation providing education and training	Prof. Magnus Hook, at the Department of Biochemistry of the Diabetes Hospital In Birmingham, AL; USA
Level in national or international classification	International
Dates	**July 1988**
Title of qualification awarded	**Title of Italian Biologist**
Name and type of organisation providing education and training	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Level in national or international classification	National
Dates	**October 1980- March 1985**
Title of qualification awarded	**Degree in Biological Science**
Principal subjects/Occupational skills covered	Experimental Thesis: Study on collagens binding to hepatocytes and bacteria: an analysis of specificity
Name and type of organisation providing education and training	University of Pavia, Corso Strada Nuova 65, 27100 Pavia, Italy
Level in national or international classification	National

Personal skills and competences

Mother tongue(s)	**Italian**
Other language(s)	**English**

Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
Language	Good	Good	Good	Good	Good

(*) *Common European Framework of Reference (CEF) level*

Social skills and competences

- Good team spirit;
- Ability to adapt to multicultural environments;
- Good communication skills to write clearly or transmit information effectively;
- Capacity and Social skills acquired during sports and cultural activities.

Organisational skills and competences

Coordinator of the 1st year teaching at the university of Pavia for the Degree in Health Care Professions, class 2", Faculty of Medicine, 2006.

ABILITY TO ORGANIZE NATIONAL AND INTERNATIONAL CONFERENCES

NATIONAL:

-February 1, **2019 HealthTech World Cancer Day 2019 "Smart technological solutions to defeat cancer: possible challenge?"** Università di Pavia, Aula Magna del Collegio Alessandro Volta, Via Adolfo Ferrata 17, Pavia

-February 2, **2017 Nanoworld Cancer Day 2017"Nanomedicine: Smart Solution to beat cancer"** Università di Pavia, Palazzo San Tommaso, Aula G1, P.ssa del Lino, Pavia

-International Symposium in Nanomedicine "Towards translation and European networking", October 18, **2016**, Milano Bicocca**.**

-From **1997 to 2013 she has been member of the Organizing Committee of the National Meeting of Ph.D. students in biochemical disciplines** that takes place every year in Brallo di Pregola, Pavia; http://www.unipv.it/bralweb

-In 2009 she was a member and chairman of the scientific and organizing committee **of the national congress of the Italian Biomaterial Society (Sib)** held in Salice Terme at President Hotel in June 15-17. Since 2006 up to now She is member of the Scientific committee of the SIB annual national Congress.

-In **2006** she was member and chairmen of the scientific and organizing committee of the congress of the Italian **Society of Biochemistry and Molecular Biology (SIB)** held in Pavia on May 19 at the Volta College;

-Member of the **Scientific committee of the annual congress of the Italian Society for Biomaterials** (http://www.biomateriali.org/) 2006-2022

INTERNATIONAL:

-She organized the **second "Immunotherapy for Infectious Diseases conference" Pavia, Italy**., 20-23 June 2022, https://www.idimmunotherapy.com/

-In **November 2018**, member of scientific committee of the first "**Immunotherapy for Infectious Diseases conference", held in Galvestone, Texas (USA).**

-She had been part of the organizing committee of "**Molecular Mechanisms of Microbial Adhesion**" the Second Gulf Shores Symposium, held at Gulf Shores State Park Resort, **May 6–8 1988**, sponsored by the Department of Biochemistry, Schools of Medicine and Dentistry, **University of Alabama at Birmingham (AL, USA)**

PARTICIPATION IN AUDITORS COMMITTEES OF NATIONAL AND INTERNATIONAL FINANCING

- Member of the **MIUR** audit committee for the evaluation of **PRIN projects** (Research Projects of National Interest) – **2007**;
- External auditor for "**Fundação para a Ciência e Tecnologia" (FCT), Lisboa, Portugal** for the evaluation of national projects in the "**Bioengineering, biotechnology and biochemistry**" sector. Year June **2011** and August year **2012**.

PARTICIPATION TO DOCTORAL PROGRAME AND FINAL COMMETTEE

- Participation in the review hearing for the **Doctoral Programs (DK) "Biomedical Engineering for Musculoskeletal Disorders",** at the Medical University of Vienna and Vienna University of Technology, Vienna, June 30, **2011**

-Participation as a member of the final doctoral exam commission:
University of Perugia, Department of Chemistry, Biology and Biotechnology, Italy - 2020
Aarhus University, Faculty of Science and Technology, Denmark - 2020
Politecnico di Torino, Italy - 2020
University of Saragoza, Spain -2020
Politecnico di Torino, Italy – 2022
Politecnico di Milano, Italy - 2022

HIGHER EDUCATIONAL ACTIVITIES
- **European Master in "NANOMED**" (http://master-nanomed.eu/) at UNIPV since 2017
- **Trasversal Course for UNIPV of "Ricerca e nanomedicina**" (Ricerca e nanomedicina) at UNIPV since 2016
- **XVIII School of Pure and Applied Biophysics Venice**, Scientific and organizing committee, "Nanomechanics in biomolecular adhesion", Campo Santo Stefano, Venice, January 27th-31th, 2014 venice2014@mechanobiology.eu
-School of Bioengineering Bressanone, Scientific and organizing committee, XXXII Scuola Annuale, "Approccio Integrato per la Medicina Rigenerativa", Bressanone, 16 - 20 settembre 2013
http://www. bioing.it/archiviodati/scuola_bressanone/BRESS13/index.html

PARTICIPATION TO EUROPEAN COST ACTIONS
-COST Action TD 1204: MODENA - **Modelling the Toxicity of Nanoparticles** (2013-2017) - http://www.iom-world.org.
-COST Action MP 1206: **Electrospun Nano-Fibres for Bio Inspired Composite Materials and Innovative Industrial Applications** (2013 - 2017) - www.electrospinning-cost.eu.
-COST Action BM 1309: EMF-MED - **European network for innovative uses of EMFs in biomedical applications.** (2014-2018) (http://www.cost.eu/COST_Actions/bmbs/ Actions/BM1309).
-COST Action iPROMEDAI TD1305 (2014-2018) (http://www.cost.eu/COST_Actions/TDP/Actions/TD1305).

- **Representation to the Academic Bodies and Faculty of Pavia University** (2000-2005) and part of its commissions.

- Capacity and Organizational skills acquired in the professional context.
- Good attitude to the management of projects and research groups.

Technical skills and competences

- Nanotechnology in Space: Study of osteoporosis on ground, in simulated microgravity and on the International Space Station (ISS) - Agenzia Spaziale italiana (ASI), ESA and NASA;

- Nanotechnology in cancer: Breast cancer: defeat it with smart gold nanospheres (University of Pavia, www.universitiamo.eu) **;**

- Nanotechnology in infection and against biofilm formation : Study of the interaction of Gram-positive and Gram-negative bacteria with extracellular matrix; isolation, biochemical and immunological characterization of bacterial adhesins; characterization of biomaterials with surface properties of anti-adhesive and antibacterial activity (anatase titanium, or surfaces containing zinc, silver, gold or gallium nanoparticles); Photodynamic treatment as an alternative approach for the inactivation of bacterial biofilm by use of substances such as Toluidine blue, Menocianina 540 and porphyrins;

- Nanotechnology in tissue engineering and regenerative medicine: Characterization of the calcified matrix produced by stem cells (pluripotent or multipotent or iPSCs) on biomaterials (titanium and titanium alloys, hydroxyapatite, keratin, absorbable biocompatible polymers, nano and micro electrospun materials etc.), following the application of the "shear stress" produced from a perfusion bioreactor, or by exposure to electromagnetic (PEMF), ultrasound or laser treatment (LLLI);

- Antibodies: Production of polyclonal and monoclonal antibodies in mice and rabbits and their characterization; human antibodies by phage display technology;

- Biocompatibility and toxicity studies: Characterization of biomaterials (variously treated polyurethanes, polyurethane foams and shape memory polyurethanes, hydroxyapatite, metal foams etc.) and their capacity to adsorb plasma-derived proteins; study of their cytotoxicity and emo-biocompatibility with different cell lines (epithelial, endothelial, macrophages, fibroblasts, platelets).

AWARDS

- Premium "**Lombardia è Creatività**" for the crowdfunding project **"Breast cancer: Defeat It with intelligent gold nanospheres" (November 2017)** **http://news.unipv.it/?p=26802**

-1st place on the Competition "**Switch2Product"** - National Congress of Bioengineering 2018 with: **"Bac3Gel: a Universal 3D Matrix for Bacterial Culture" Paola Petrini, Daniela P. Pacheco, Natalia Suarez Vargas, Sonja Visentin, Livia Visai, Federico Bertoglio. (https://s2p.it/vincitori-2018/), Innovation in Bioengineering Award and Finalist in StartCup Lombardia;**

- **eligible for funding for the PoC Instrument call (PoC – Proof of Concept)** [Convenzione sottoscritta con la Compagnia di San Paolo, per il triennio 2019-2021, con 5 università italiane: Politecnico di Torino, Università degli Studi di Torino, Università del Piemonte Orientale, Università degli Studi di Genova e Università degli Studi di Napoli Federico II] con il progetto "Nanoparticelle per combattere la resistenza batterica" **(https://linksfoundation.com/poc-instrument/) April 2020**

Computer skills and competences

- Computer skills and abilities acquired in the professional context.
- Good command of Microsoft Office ™ (Word ™, Excel ™ and PowerPoint ™);
- Basic knowledge of graphic design applications (Adobe Illustrator ™, PhotoShop ™, GraphPad etc).

Artistic skills and competences

Sport (aquatic and mountain), reading, music, drawing.
Artistic skills and competences acquired in free time

Other skills and competences

Publishing activity at the publishing house **The McGraw Hill Companies, Milan headquarters – Italy**
Translation of the following books from English into Italian language:
-"Biochemistry" JD Rawn, and the entire "Exercise book" Biochemistry of the same author;
- Part of the book "Biology" by J. Postlethwaite, J.Hopson, R. Veres;
-"Biochemistry" by Laurence A. Moran.
-Consultant to the translation from the English dictionary, "The Dictionary of Cell Biology" by John M. Lackie and Jiulian A.T. Dow

Editorial Board Member

-Biochemistry & Analytical Biochemistry, https://www.longdom.org/biochemistry-and-analytical-biochemistry/editorial-board.html (since 2011)

-Journal of Applied Materials & Functional Materials , https://journals.sagepub.com/home/jbf (since 2012, Section Editor)

GUEST EDITOR
-Frontiers in Public Health (https://www.frontiersin.org/research-topics/12855/recent-advances-in-recombinant-antibody-therapeutics-for-infectious-diseases)
Research Topic: Recent Advances in Recombinant Antibody Therapeutics For Infectious Diseases
Topic Editors: Theam Soon Lim Universiti Sains Malaysia (USM), Penang, Malaysia; Michael Hust, Technische Universitat Braunschweig, Braunschweig, Germany; Livia Visai, University of Pavia, Pavia, Italy

-Frontiers in Bioengineering and Biotechnology :https://www.frontiersin.org/research-topics/27396/cells-biomaterials-and-biophysical-stimuli-for-bone-cartilage-and-muscle-regeneration
Research Topic: Special Issue "Cells, Biomaterials, and Biophysical Stimuli for Bone, Cartilage, and Muscle Regeneration"
Topic Editors: Lorenzo Fassina, Nora Bloise , **Livia Visai** and Gabriella Cusella of **University of Pavia, Pavia, Italy** and Murugan Ramalingam VIT University, Vellore, India

-International Journal of Molecular Sciences: https://www.mdpi.com/journal/ijms/special_issues/nanomaterials_bioscience
Research Topic: Special Issue "Cutting-Edge Research of Nanoscience and Nanomaterials Use in

Biosciences"
Topic Editors: **Livia Visai, University of Pavia, Pavia, Italy** and Giuseppina Rea Institute of Crystallography (IC), National Research Council of Italy (CNR), Monterotondo St., Rome, Italy

Driving licence(s) Driving Licence Type B

Additional information

Further info can be found at the following web sites:
https://pubmed.ncbi.nlm.nih.gov/?term=visai+l&sort=pubdate&size=50
http://molecularmedicine.unipv.it/reseach-groups/biochemistry/l-visai/
https://www.icsmaugeri.it/professionisti/livia-visai?p=curriculum-vitae

Attached files

Signature **Annex 1 (list of publications), Annex 2 (list of funding), Annex 3 (list of deposited patents) Annex 4 (list of teaching)**

Date December 2023

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003.

ANNEX 1

LIST OF PUBLICATIONS OF LIVIA VISAI (1986-2023)
N° Guest editor = 3
N° publications in PubMed = 209
N° publications ISI = 12
N° Books' Chapters = 8

GUEST EDITOR (3)
-Frontiers in Public Health: https://www.frontiersin.org/research-topics/12855/recent-advances-in-recombinant-antibody-therapeutics-for-infectious-diseases
Research Topic: Special Issue "Recent Advances in Recombinant Antibody Therapeutics For Infectious Diseases"
Topic Editors: Theam Soon Lim Universiti Sains Malaysia (USM), Penang, Malaysia; Michael Hust, Technische Universitat Braunschweig, Braunschweig, Germany; **Livia Visai, University of Pavia, Pavia, Italy**

-Frontiers in Bioengineering and Biotechnology :https://www.frontiersin.org/research-topics/27396/cells-biomaterials-and-biophysical-stimuli-for-bone-cartilage-and-muscle-regeneration
Research Topic: Special Issue "Cells, Biomaterials, and Biophysical Stimuli for Bone, Cartilage, and Muscle Regeneration"
Topic Editors: Lorenzo Fassina, Nora Bloise , **Livia Visai** and Gabriella Cusella of **University of Pavia, Pavia, Italy** and Murugan Ramalingam VIT University, Vellore, India

-International Journal of Molecular Sciences: https://www.mdpi.com/journal/ijms/special_issues/nanomaterials_bioscience
Research Topic: Special Issue "Cutting-Edge Research of Nanoscience and Nanomaterials Use in Biosciences"
Topic Editors: **Livia Visai, University of Pavia, Pavia, Italy** and Giuseppina Rea Institute of Crystallography (IC), National Research Council of Italy (CNR), Via Salaria km 29.300, 00015, Monterotondo St., Rome, Italy

List of published articles in PubMed (209) (https://pubmed.ncbi.nlm.nih.gov/?term=visai+l&sort=pubdate&size=50)

Photodynamic toluidine blue-gold nanoconjugates as a novel therapeutic for Staphylococcal biofilms.
Okkeh M, De Vita L, Bruni G, Doveri L, Minzioni P, Restivo E, Patrini M, Pallavicini P, Visai L. RSC Adv. 2023 Nov 20;13(48):33887-33904. doi: 10.1039/d3ra04398c. eCollection 2023 Nov 16. PMID: 38019993 Free PMC article.

Effect of Low Copper Doping on the Optical, Cytocompatible, Antibacterial, and SARS-CoV-2 Trapping Properties of Calcium Phosphate Glasses.
Restivo E, Pugliese D, Gallichi-Nottiani D, Sammartino JC, Bloise N, Peluso E, Percivalle E, Janner D, Milanese D, VISAI L. ACS Omega. 2023 Nov 1;8(45):42264-42274. doi: 10.1021/acsomega.3c04293. eCollection 2023 Nov 14. PMID: 38024754 Free PMC article.

The nano-revolution in the diagnosis and treatment of endometriosis.
Volpini C, Bloise N, Dominoni M, Barra F, Vellone VG, Minzioni P, Gardella B, Ferrero S, VISAI L. Nanoscale. 2023 Nov 9;15(43):17313-17325. doi: 10.1039/d3nr03527a. PMID: 37874212 Review.

The ad hoc chemical design of random PBS-based copolymers influences the activation of cardiac differentiation while altering the HYPPO pathway target genes in hiPSCs.
Guidotti G, Duelen R, Bloise N, Soccio M, Gazzano M, Aluigi A, VISAI L, Sampaolesi M, Lotti N. Biomater Adv. 2023 Nov;154:213583. doi: 10.1016/j.bioadv.2023.213583. Epub 2023 Aug 12. PMID: 37604040 Free article.

Antibodies to coagulase of Staphylococcus aureus crossreact to Efb and reveal different binding of shared fibrinogen binding repeats.
Bertoglio F, Ko YP, Thomas S, Giordano L, Scommegna FR, Meier D, Polten S, Becker M, Arora S, Hust M, Höök M, VISAI L. Front Immunol. 2023 Sep 27;14:1221108. doi: 10.3389/fimmu.2023.1221108. eCollection 2023. PMID: 37828992 Free PMC article.

Enhanced in vitro immersion behavior and antibacterial activity of NiTi orthopedic biomaterial by HAp-Nb2O5 composite deposits.
Safavi MS, Khalil-Allafi J, Restivo E, Ghalandarzadeh A, Hosseini M, Dacarro G, Malavasi L, Milella A, Listorti A, VISAI L. Sci Rep. 2023 Sep 25;13(1):16045. doi: 10.1038/s41598-023-43393-3. PMID: 37749260 Free PMC article.

Combined Effects of HA Concentration and Unit Cell Geometry on the Biomechanical Behavior of PCL/HA Scaffold for Tissue Engineering Applications Produced by LPBF.
Gatto ML, Furlani M, Giuliani A, Cabibbo M, Bloise N, Fassina L, Petruczuk M, VISAI L, Mengucci P. Materials (Basel). 2023 Jul 11;16(14):4950. doi: 10.3390/ma16144950. PMID: 37512225 Free PMC article.

Improved osteogenic activity of NiTi orthopedic implant by HAp-Nb2O5 composite coatings: Materials and biological points of view.
Safavi MS, Khalil-Allafi J, VISAI L. Biomater Adv. 2023 Jul;150:213435. doi: 10.1016/j.bioadv.2023.213435. Epub 2023 Apr 20. PMID: 37098321

Internally crosslinked alginate-based bioinks for the fabrication ofin vitrohepatic tissue models.
Guagliano G, Volpini C, Camilletti J, Donnaloja F, Briatico-Vangosa F, VISAI L, Petrini P. Biofabrication. 2023 Jun 1;15(3). doi: 10.1088/1758-5090/acd872. PMID: 37224802

Human Ovarian Follicular Fluid Mesenchymal Stem Cells Express Osteogenic Markers When Cultured on Bioglass 58S-Coated Titanium Scaffolds.
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2. Bertoglio, Bloise, Oriano, Perini, Sprio, Imbriani, Tampieri, Visai. Treatment of Biofilm Communities: An Update on New Tools from the Nanosized World May 2018 Applied Sciences 8(6):845

3. Pacheco, Daniela P.; Marcello, Elena; Bloise, Nora; Sacchetti, Alessandro; Brenna, Elisabetta; Visai, Livia; Petrini, Paola Design of Multifunctional Polysaccharides for Biomedical Applications: A Critical Review. Current Organic Chemistry, Volume 22, Number 12, 2018, pp. 1222-1236(15) Bentham Science PublishersDOI: https://doi.org/10.2174/1385272822666171212153320

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8. Bloise N., Saino E., Bragheri F., Minzioni P., Fassina L., Mazzini G., Imbriani M. and VISAI L.The Effect Of Low Level Laser Irradiation On Human Osteoblastlike Cells Growth: An In Vitro Analysis PROCEEDINGS OF THE XXIX NATIONAL CONFERENCE OF CYTOMETRY Salerno Italy October 5—8, 2011 Cytometry, pag. 8

9. Saino E., Grandi S., Bloise N., Mustarelli P., Imbriani M. and VISAI L. Bone Calcified Matrix Onto Zinccontaining Bioactive Glasses PROCEEDINGS OF THE XXIX NATIONAL CONFERENCE OF CYTOMETRY Salerno Italy October 5—8, 2011 Cytometry, pag 10

10. Saino E., Bloise N., Fassina L. Mazzini G., Mustarelli P., Imbriani M. and VISAI L.In Vitro Enhancement Of SAOS2 Cell Calcified Matrix Deposition Onto R.F. Magnetron Sputtered Bioglass coatedTitanium Scaffolds
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List of Books' Chapters (8)

1. **Chapter 7**: Bioprinting for skeletal tissue regeneration: from current trends to future promises Nora Bloise, Giulia Montagna, Lorenzo Fassina, Virginie Sottile and Livia Visai In Bioprinting: From Multidisciplinary Design to Emerging Opportunities, Elsevier Bioprinting Book, Accepted 2021 with publication on May 2022.

2. **Chapter 3**: "Keratin based matrices from wool fibres and human hair" Alessia Patrucco, Livia Visai, Lorenzo Fassina, Giovanni Magenes, and Claudio Tonin in "UPDATES: Composites in Biomedical Engineering" (Volumes 1-10), Elsevier, Alexandru Mihai Grumezescu Editor.

3. **Chapter's** title: "PEEK Titanium Composite (PTC) for Spinal Implants" by Erik I. Waldorff, Samuel Fang, Nianli Zhang, Livia Visai, Marcello Imbriani, Emanuele Magalini, Eleonora Preve, Pierfrancesco Robotti, Andrew L. Raines, Evan Goldberg, Jiechao Jiang, Kirk C. McGilvray, Jeremiah Easley, Howard B. Seim, Christian M. Puttlitz, and James T. Ryaby in "Orthopaedic Biomaterials – Advances and Applications" 1st ed. 2017 Edition by Bingyun Li (Editor), Thomas Webster (Editor), Publisher: Springer 2018.

4. **Chapter 4** title: "Can Nanotechnology Shine a New Light on Antimicrobial Photodynamic Therapies?" by Nora Bloise, Paolo Minzioni, Marcello Imbriani and Livia Visai in "Photomedicine - Advances in Clinical Practice" edited by Yohei Tanaka, Publisher: InTech, 2017.

5. **Chapter 1** title: "Staphylococcal Biofilm Formation and Development: Related Diseases, Host Immune Responses and Therapy" (pp. 1-34) Authors / Editors: (Livia Visai, Davide Ferrari, E. Magda Barbu, Xiaowen Liang, Vannakambadi K. Ganesh, Magnus Höök and Marcello Imbriani, Department of Molecular Medicine, Center for Tissue Engineering (C.I.T.), University of Pavia, Pavia, Italy and the others) in "Prokaryotes: Physiology, Biochemistry and Cell Behavior", Editors: Marina Nisnevitch. Publisher: NOVA Science Publisher, 2014.

6. **Chapter 18**: "AgNPs, Silver Nanoparticles and Health Concerns: A Review on in vitro and in vivo Toxicity" (pp. 369-394) Authors / Editors: (Livia Visai, Davide Ferrari, Silvia Minardi, Ennio Tasciotti, Piercarlo Mustarelli and Marcello Imbriani, Department of Molecular Medicine, Via Forlanini 6 and Center for Tissue Engineering (C.I.T.), University of Pavia, Pavia, Italy, and others) in "Silver Nanoparticles: Synthesis, Uses and Health Concerns", Editors: Ilaria Armentano and Jose Maria Kenny. Publisher: NOVA Science Publisher, 2013.

7. **Chapter 10**: "L'importanza della nanotopografia per le interazioni in vitro cellula-superficie" Livia Visai, Davide Ferrari, Lorenzo Fassina, Giovanni Magenes, Marcello Imbriani in "Approccio Integrato per la medicina rigenerativa" Authros/Editors: Tanzi M.C., Bianchi A., Farè S., Mantero S., Raimondi M.T., VISAI L. Pàtron editore S.r.l., 2013.

8. **Chapter title**: "Osteogenic effects of an electromagnetic stimulation on human mesenchymal stromal cells seeded onto gelatin cryogel" Lorenzo Fassina, Enrica Saino, Sandra Van Vlierberghe, Jorg Schelfhout, Maria Antonietta Avanzini, Peter Dubruel, Francesco Benazzo, Giovanni Magenes, and Livia Visai. pp.29-42; Publisher: NOVA Science Publisher, 2011.

ANNEX 2

LIST OF FUNDING OF LIVIA VISAI

PNRR-PRIN 2023: Bioresorbable Photonics Enabling Technologies for innovative companies in health and biomedical sector (BioPhET) – Co-PI

PRIN 2023 : Multitasking mucosomes: empowering the immune response of the host while treatment respiratory pathologies (MUMMI) – Coordinator

CNR/IDEA GTO (Stato di Guanajuato, Messico): Bilateral project – Development of biodegradable films from different types of biopolymers with multifunctional and antibacterial properties for smart packaging using an extrusion blow molding process -Co-PI

MIUR (2023-2027) : Departmental Excellence project DMM. Co-PI

BANDO DI RICERCA SULL'ENDOMETRIOSI - anni finanziari 2021-2022-2023 Ministero della Salute - Progetto ENDO-2021-12371975 : AntiCD44-gold nanoparticles for endometriosis photothermal therapy. Co-PI-2021

BANDO ASI (Agenzia Spaziale Italiana) DC-VUM-2020-7 "TaRgeting the FGF23-Klotho axis for diagnostics Of microGravity inducEd osteopoRosis on ISS (COMET_ISS) : PI 2021

FONDO INTEGRATIVO SPECIALE PER LA RICERCA (FISR) - FISR2020IP_02115 Mucus4COVID: un prototipo di modello *in vitro* per determinare il ruolo del muco polmonare nell'infezione di SARS-Cov-2, la sua trasmissione e lo sviluppo di terapie efficaci per bloccare la progressione della malattia (Mu4Covid)- Co-PI – 2021

PROGETTI DI "RICERCA FINALIZZATI AI METODI ALTERNATIVI"- "In vitro assessment of the risk of hepatotoxicity from Chlordiazepoxide and Midazolam in preclinical studies through the use of in vitro methods based on the use of two and three-dimensional human cell lines" -Scientific Manager of an Operative Unit – 2020

MAECI-MUR (2018-2020): bilateral project ITALIA-SVEZIA "Effect of hydRoxyapatitE nanoPArticles on bone regeneration In simulated micRogravity (REPAIR)". PI

MIUR (2018-2022) : Departmental Excellence project DMM. Co-PI

Allocation fund for the financing of the Basic Research Activities of the MIUR (2018)

Progetto di crowdfunding (2015) di "Universitiamo.eu" - Breast cancer: defeating it with intelligent golden nanospheres**" -** PI

PROGETTO (**2013-2016**) **"Nanoparticles and Osteoporosis" (NATO)** funded by Agenzia Spaziale Italiana (ASI) with ESA and NASA– PI

PRIN 2010-11: Nanomed (prot. 2010FPTBSH_009). Member of the research group.

Banco Regione Lombardia (2012): Nanotechnology applied to the treatment of pain.Co-PI

INAIL 2010: Effects of electromagnetic fields on human health: in vitro experimental models. Co-PI.

MISE-ICE (MIUR) 2011: Development of monoclonal antibodies anti-lipoprotein A high affinity for diagnostic and therapeutic. Co-PI

Banco San Paolo (GE) **2011**: Use of mesenchymal stem cells subjected to the electromagnetic field: an innovative approach to the osseointegration of titanium implants. PI

ALMA MATER Ticinensis 2010: Nanomedicine in ageing-associated prototypic diseases: activation of a scientific and technological platform challenging seminal aspects of pathogenesis, diagnosis and therapy. Co-PI

Progetto regione Lombardia 2010: From materials science to the development of new devices for the diagnosis and treatment of diseases associated with aging. Member of the research group.

Project exchange of researchers within the executive programs Italy –USA 2008 "Determination of the binding mechanism of *Bartonella heneselae* Pap 31 protein to N-terminal Domain (NTD) of fibronectin". PI

Regione Lombardia 2007 Ingenio Global Grant "Engineering of bone tissue with bio-glasses" PI

Cariplo Foundation 2006: "Production of: Transcendable Hybrid Bone Tissue (T.O.I.T.) through stem cells, biomaterials and innovative biotechnologies" Co-PI

Cariplo Foundation 2004: "Synthesis of bone tissue by culturing bone marrow stromal cells in a perfusion bioreactor" Co-PI

FIRB 2005: "Use of stem cells, biomaterials and innovative biotechnologies for the production of human tissue transplants" Co-PI

PRIN 2006: In vitro study of the effects of micro- and nano-structure of biomaterials on the interaction with monocytes / macrophages – Local PI

PRIN 2004: Titanium anatase: in vitro analysis of the antibacterial effect towards strains that colonize the oral cavity and study of the biocompatibility towards osteoblasts and gingival fibroblasts in static and dynamic conditions – Local PI

PRIN 1999: Identification and characterization of streptococcal adhesins for the extracellular matrix components of the host, according to their immunological and immunotherapeutic use - Local PI

RESEARCH CONTRACTS WITH COMPANIES EXTERNAL TO UNIVERSITY

Recently She got contracts with Shering-Bayer 2008, Eurocoating 2009, Metco 2007, 2009 and 2010, and with International Centre For Studies And Research In Biomedicine A.S.B.L. (ICB) 2010 (in Luxembourg) and a Contract with Politecnico of Milano; Contract also with Biomax, Rimos, Ceramica Polis, Dentalica, Micromega, Keracoll and in 2018 with SAES-Getters.

In particolar:

1. YEAR 2009. Contract for activities of theoretical and experimental research for the determination of the in vitro bactericidal activity of materials with the Company METCO SRL of Bologna lasting 24 months. Renewed in 2010.
2. YEAR 2009. Contract for carrying out antibacterial tests using 2 bacterial strains (*Staphylococcus aureus, Escherichia coli*) on titanium anatase activated with UVA rays with POLYTECHNIC OF MILAN lasting 24 months.
3. YEAR 2009. Contract for theoretical and experimental research in biocompatibility studies and antibacterial activity on materials within the BIOSINTERING program with the EUROCOATING SpA Company of Trento lasting 24 months.
4. YEAR 2009. Contract for theoretical and experimental research in biocompatibility studies and antibacterial activity on materials within the E-ORTHO program with the EUROCOATING SpA Company of Trento lasting 24 months.
5. YEAR 2009. Contract for theoretical and experimental research in biocompatibility studies and antibacterial activity on materials under the OSTEOPRO program with the EUROCOATING SpA Company of Trento lasting 24 months.
6. YEAR 2015. Research contract for theoretical and experimental research activities NEMO project with the EUROCOATING SpA Company of Trento lasting 12 months
7. YEAR 2018. Research contract for theoretical and experimental research activities ORTHOFIX project with the Orthofix Company (TX, USA) lasting 6 months.
8. YEAR 2022. Research contract with GUIDED SURGERY 2.0 SRL
9. YEAR 2023. Research contract with Greenbone Ortho Spa

ANNEX 3 - List of deposited patents (8)

Priority dates	Title	Current assignees	Inventors	Family legal status	Legal status (Pending, Granted, Revoked, Expired, Lapsed)	Legal state (Alive, Dead)
2023-06-05	Novel formulations for biobased nanostructured films and coatings	UNIVESRITA CA' FOSCARI DI VNEZIA UNIVERSITA DEGLI STUDI DI PAVIA	GIGLI MATTEO CRESTINI CLAUDIA MASSARI DANIELE VISAI LIVIA BLOISE NORA	PENDING	(102023000006900) PENDING	(102023000006900) ALIVE
2020-06-22	(102020000014908) Nanoparticelle Glicosilate Di Mucina Covalentemente Reticolate Come Sistemi Per La Veicolazione Ed Il Rilascio Di Farmaci E Biomolecole	UNIVERSITA DEGLI STUDI DI TORINO POLITECNICO DI MILANO UNIVERSITA DEGLI STUDI DI PAVIA	VISENTIN SONJA BRACOTTI FRANCESCO VISAI LIVIA PETRINI PAOLA	PENDING	(102020000014908) PENDING	(102020000014908) ALIVE
2018-12-19	(WO2020128965) Three-dimensional substrate for microbial cultures	POLITECNICO DI MILANO UNIVERSITA DEGLI STUDI DI PAVIA UNIVERSITA DEGLI STUDI DI TORINO	PETRINI PAOLA PANEDA PACHECO DANIELA PATRICIA SUAREZ VARGAS NATALIA ANDREA BERTOGLIO FEDERICO VISENTIN SONJA VISAI LIVIA	PENDING	(WO2020128965A1) PENDING	(WO2020128965A1) ALIVE
2013-10-15 2014-10-15 2016-04-15 2020-05-20	(EP3057988) Compositions and the use of a fibrinogn binding motif presence in efb and coa for vaccine against staphylococcus aureus and drug delivery	TECHNISCHE UNIVERSITAET BRAUNSCHWEIG TEXAS A & M UNIVERSITY UMC UTRECHT HOLDING UNIVERSITA DEGLI STUDI DI PAVIA UNIVERSITY MEDICAL CENTER UTRECHT THE NETHERLANDS	KO YA-PING [US] HOOK MAGNUS [US] ROOIJAKKERS SUZAN HM [NL] VISAI LIVIA [IT] BERTOGLIO FEDERICO [IT] HUST MICHAEL [DE] MEIER DORIS [DE]	PENDING	(EP3057988A2) LAPSED (US20200283508A1) PENDING (US20160235832A1) LAPSED (WO201557893A3) LAPSED (CA2952930A1) LAPSED	(EP3057988A2) DEAD (US20200283508A1) ALIVE (US20160235832A1) DEAD (WO201557893A3) DEAD (CA2952930A1) DEAD

2006-05-31	(WO2007138446) Method for making antibacterial and antiviral the surfaces of metal products intended for medical uses	EUROCOATING POLITECNICO DI MILANO	PETRINI PAOLA BOZZINI SABRINA TANZI MARIA CRISTINA VISAI LIVIA	LAPSED	(WO2007138446A3) LAPSED (IT2006MO0170A1) LAPSED	(WO2007138446A3) DEAD (IT2006MO0170A1) DEAD
2003-07-23 2004-07-23	(EP1646402) Antibodies to the fbsa protein of streptococcus agalactiae and their use in treating or preventing infections	INHIBITEX UNIVERSITA DEGLI STUDI DI PAVIA UNIVERSITY ULM	SPEZIALE PIETRO PIETROCOLA GIAMPIERO VISAI LIVIA	LAPSED	(EP1646402A4) LAPSED (US20050202025A1) LAPSED (WO200510167A3) LAPSED (CA2533503A1) LAPSED	(EP1646402A4) DEAD (US20050202025A1) DEAD (WO200510167A3) DEAD (CA2533503A1) DEAD
2002-02-21 2002-03-05 2003-02-21	(EP1483292) Monoclonal antibodies that are cross-reactive against bacterial collagen binding proteins	BATES SALAH E EL SITA YUNIVU DELICE DIDDY PAVIA UNIVERSITA DEGLI STUDI DI PAVIA	SPEZIALE PIETRO VISAI LIVIA GIAMPIERO PIETROCOLA BATES SARAH	REVOKED	(EP1483292A4) REVOKED (US20030190320A1) LAPSED (WO200372607A8) LAPSED (JP2006502968A) REVOKED (AU2003219816A1) LAPSED (CA2475774A1) LAPSED	(EP1483292A4) DEAD (US20030190320A1) DEAD (WO200372607A8) DEAD (JP2006502968A) DEAD (AU2003219816A1) DEAD (CA2475774A1) DEAD
2000-03-17 2000-04-25 2000-08-15 2001-03-19	(EP1267930) Cross-reactive displacing antibodies from collagen-binding proteins and method of identification and use	INHIBITEX TEXAS A & M UNIVERSITY UNIVERSITA DEGLI STUDI DI PAVIA	HOOK MAGNUS XU YI SPEZIALE PIETRO VISAI LIVIA CASOLINI FABRIZIA PATTI JOSEPH PATEL PRATIKSHA DOMANSKI PAUL	GRANTED	(EP1267930A4) LAPSED (US7241592B2) GRANTED (WO200170267A1) LAPSED (JP2003527440A) LAPSED (AU200156958A) LAPSED (CA2403359A1) LAPSED	(EP1267930A4) DEAD (US7241592B2) ALIVE (WO200170267A1) DEAD (JP2003527440A) DEAD (AU200156958A) DEAD (CA2403359A1) DEAD