

FRANCESCO TESSAROLO, PhD

Civil status: coniugate. Two sons.

Nationality: Italian

Date of birth: 04-11-1977

City of birth: Bassano del Grappa (VI)

Current address:

via Lungoparco, 24 38056 Levico Terme (TN), Italy

Office address:

Department of Industrial Engineering, UNIVERSITY OF TRENTO

BioTech, Center for Biomedical Technologies

via delle Regole, 101

I-38123 Mattarello

Trento-Italy

Contacts:

Tel.: +39 0461 282775

Mobile: +39 328 74 74 449

Fax: +39 0461 283952

E-mail: francesco.tessarolo@unitn.it



Short bio

Francesco Tessarolo was born in Bassano del Grappa (VI), Italy, in 1977.

He graduated in Physics at the University of Trento, Italy in 2002, collaborating with the Biophysics and Biosignals Laboratory at the Department of Physics of the University of Trento and the Health Trust of the Trento Province in the biomedical applied project "Safety in Interventional Cardiology and Cardiac Surgery.

He got a Master's in Biomaterials in 2005 on "Sterilization techniques and modifications induced on biomaterials" and his PhD in Materials Engineering in March 2006 on "Reprocessing single-use medical devices".

Since 2004, he has been part of the research team of the Section of Electron Microscopy of the Department of Laboratory Medicine of the Health Trust of the Trento Province, Italy.

From April 2006 to October 2009, he was a post-doctoral research fellow at the Biophysics and Biosignals Laboratory of the Department of Physics, University of Trento and from December 2009 to May 2013 at the Biotech Research Center in Biomedical Technologies of the Department of Industrial Engineering, University of Trento.

He then moved to the Bruno Kessler Foundation in Trento as a researcher of the Healthcare Research and Innovation Special Program (IRCS) from June 2013 to May 2019.

Currently, he is a researcher at the Department of Industrial Engineering at the University of Trento.

Main research interests:

- √ Biomaterials and materials for medical applications
 - Failure analysis of implantable medical devices
 - Functional testing of critical medical devices
 - Hard tissue and soft tissue integration of biomaterials in humans
- √ Microbial biofilm and medical device-related infections
 - Microbial biofilm
 - Bioreactors
 - Device-related infections
 - Microbiological diagnostic methods
- √ Disinfection and Sterilization

- Cleaning and disinfection of medical devices
- Sterilization-induced modification of biomedical materials
- Steam sterilization
- Validation and monitoring of medical device reprocessing
- √ Information and communication technologies for the healthcare and wellbeing
 - Agile requirement elicitation
 - User engagement in co-design process and usability testing
 - Technical testing (verification and validation) and clinical/field evaluation
- √ Methods and tools for evaluating medical devices safety and efficacy
 - Design of clinical investigations and research studies involving human subjects
 - Ethics and GDPR for ICT in healthcare and wellbeing
 - Pre-commercial Procurement for the development and testing of innovative ICTs
- √ High resolution microscopies for materials and biologic specimens
 - High vacuum, Low vacuum, and Environmental Scanning electron microscopies
 - Confocal laser scanning microscopy
 - Non-linear optical imaging techniques
 - X rays microanalysis

Degrees and Titles:

- √ **Four years degree in Physics** (Biophysics specialty). Thesis title: "Rigenerazione di cateteri per elettrofisiologia e ablazione cardiaca: tecniche fisico-chimiche per la validazione del processo", "Reprocessing of electrophysiology and ablation cardiac catheters: chemical-physical techniques for process validation". June 17, 2002, University of Trento.
- √ **Three-year Master in Biomaterials**. Master Thesis title: "The sterilization process and the modifications induced in biomaterials". 13 July 2005, CIRMIB, Inter-Universities Research Center on Materials for Biomedical Engineering.
- √ **PhD in Materials Engineering** (Biomaterial field). PhD thesis title: "Reuse of single-use medical devices for interventional cardiology". Academic year 2004-2005, dissertation on March 17, 2006, University of Trento.

Current position:

01/01/2022 to present **Researcher** (Ricercatore a tempo determinato tipo A) at the Department of Industrial Engineering, University of Trento. SC 09/G2 (Bioingegneria), SSD ING-IND/34 (Bioingegneria industriale). Co-financed by the European Union - FSE-REACT-EU, PON Research and Innovation 2014-2020 DM1062 / 2021.

Past positions:

- √ 01/09/2002 31/01/2003 **Grant holder** (Collaboratore di ricerca a progetto) at the Department of Physics, University of Trento. Research activities: physicochemical characterisation of single-use medical devices undergoing reprocessing. Participation in the biomedical research project "SIX-SICC" (Safeness in interventional Cardiology and Cardiac Surgery) funded by Fondo Unico per la Ricerca 2001 Provincia Autonoma di Trento. SSD FIS-07
- √ 22/11/2002 17/03/2006 **PhD student** at the Doctoral School in Material Engineering, University of Trento. PhD thesis title: "Material properties, hygienic requirements and functionality of single-use medical devices: assessment on new and reprocessed intravascular devices. Critical issues for a reprocessing policy". Define and implement new physical, chemical and microbiological testing methods for the evaluation of safety and efficacy of reprocessed single-use medical devices. SSD ING-09
- √ 01/02/2003 30/04/2005 **Grant holder** (Collaboratore di ricerca a progetto) at the Dipartimento Cura e Riabilitazione, Azienda Provinciale per i Servizi Sanitari di Trento. Research activities: Participation to the biomedical research project "SIX-SICC" (Safeness in interventional Cardiology and Cardiac Surgery) funded by Fondo Unico per la Ricerca 2001 Provincia Autonoma di Trento.
- √ 01/03/2006 28/03/2007 **Grant holder** (Collaboratore di ricerca a progetto) at the Dipartimento di Fisica, Università degli Studi di Trento. Research activities: development of nanotechnologies for the prevention of coronary restenosis. Scientific secretariat of the research project: NaPrest (Nanotechnologies for the Prevention of Restenosis), Funded by Bando Ministero della Salute 2004. SSD FIS-07.

- √ 23/10/2006 21/12/2006 **Visiting researcher** at the Department of Periodontology, Institute of Odontology, The Sahlgrenska Academy at Göteborg University, Göteborg, Sweden. The research period has been supported by a scholarship grant from the Istituto di Cultura Italo-Svedese Stiftelsen C.M. Leric of Stockholm. Research activity: development of a new analytical protocol for the characterization of tissue interactions with oral implants. Learn how to process histological samples, including bone tissue and titanium implants, to obtain thin sections according to the "sawing and grinding" technique.
- √ 23/11/2009 22/05/2010 **Project P.I.** (Principal investigator su progetto) at the Inter-departmental Center on Biomedical Technologies BIOtech, Università degli Studi di Trento. Principal investigator of the biomedical research project "Biofilm microbico e miglioramento dei dispositivi per la prevenzione delle infezioni correlate al catetere venoso centrale". Academic tutor: dott. Giandomenico Nollo. Research activity: comparative characterisation of materials for central venous catheters pre and after implantation. Development of in-vitro models and bioreactors for the growth of microbial biofilm on implantable materials as a tool for studying implant-related infections.
- √ 23/05/2010 22/05/2012 **Post-doc research fellow** (Assegnista di Ricerca, ex art. 51 legge 449/97) at the Interdepartmental Center on Biomedical Technologies BIOtech, Università degli Studi di Trento. Research title: Microbial biofilm on central venous catheters. The research was aimed at developing new techniques for the characterization and quantification of microbial biofilm to complement currently available diagnostic methods for catheter-related infections. Definition and implementation of a randomized clinical trial comparing the efficacy of uncoated and silver-coated catheters in reducing the incidence of catheter-related infections. Research has been conducted in collaboration with the Dipartimento di Anestesia e Rianimazione of the Azienda Provinciale per i Servizi Sanitari di Trento. SSD: ING-IND/22
- √ 01/06/2012 05/05/2013 **Post-doc research fellow** (Assegnista di ricerca Legge 240) at the Inter-departmental Center on Biomedical Technologies BIOtech, Università degli Studi di Trento. Research title: The morphogenesis of the perimplant oral mucosa according to the implant surface characteristics. Research aim: investigate the formation process of the mucosal seal around dental implant in humans. Analysis of biopsy samples from perimplant tissue and experimental healing abutment at different timepoints from implant surgery. The study has been conducted by implementing a randomized trial and applying both histological techniques and microstructural analysis based on environmental scanning electron microscopy. SSD ING-IND/34.
- √ 06/05/2013 31/12/2016 **Researcher** (Ricercatore a tempo determinato) at the Center for Information and Communication Technologies-Progetto Implementazione della Ricerca Sanitaria, Fondazione Bruno Kessler, Trento. Research activity: preclinical and clinical research with new prototypes and innovative medical devices for diagnosis and treatment of disease in humans. Participated in the research end innovation action EU project UNCAP and in the technology transfer projects "CARDIOLINE" and "MEDICALTECH". Scientific collaborator at the "Section for Electron Microscopy" of the Dipartimento di Medicina di Laboratorio of the Azienda Provinciale per i Servizi Sanitari di Trento on biomedical and clinical research projects.
- √ 16/01/2017 15/05/2019 **Researcher** (Ricercatore a tempo determinato) at the Center for Information and Communication Technologies-Progetto Implementazione della Ricerca Sanitaria, Fondazione Bruno Kessler, Trento. Research activity: preclinical and clinical research with new prototypes and innovative medical devices for diagnosis and treatment of disease in humans. Participated in the research end innovation action EU project UNCAP and in the technology transfer projects "CARDIOLINE" and "MEDICALTECH". Scientific collaborator at the "Section for Electron Microscopy" of the Dipartimento di Medicina di Laboratorio of the Azienda Provinciale per i Servizi Sanitari di Trento on biomedical and clinical research projects.
- √ 16/05/2019 31/12/2021 **Post-doc research fellow** (Assegnista di ricerca Legge 240) at the Department of Industrial Engineering, University of Trento. Research activity: Development and implementation of analytical methods and study protocols for the multidimensional assessment of technologies for health. Focus on critical medical devices (implantable devices, sterile devices) and on innovative ICT technologies for healthcare and wellbeing. The research activity is performed in collaboration with international and multidisciplinary teams and includes the participation in the activities of the EU research and Innovation project "CAPTAIN" and the responsibilities for the project tasks "Clinical study plan" and "Laboratory technical testing". SSD ING-INF06

Teaching and educational activities:

- √ 06-03-2006 09-03-2006 **Lecturer** for the clinical professionals of the Azienda Provinciale per i Servizi Sanitari di Trento on the subject: "La pulizia di frese per odontoiatria: valutazione di protocolli differenti mediante microscopia elettronica". Corso di formazione sul campo: Pulizia e disinfezione di frese odontoiatriche e strumenti endodontici: elaborazione e applicazione di un protocollo condiviso. Azienda Provinciale per i Servizi Sanitari, Trento, Italy.

- √ 28-03-2007 28-03-2007 **Lecturer** for the clinical professionals of the Azienda Provinciale per i Servizi Sanitari di Trento on the subject: "Ultrasuoni. Principi di funzionamento e parametri operativi per l'ottimizzazione della pulizia dei dispositivi medici". Corso di formazione sul campo: Pulizia e disinfezione di frese odontoiatriche e strumenti endodontici: elaborazione e applicazione di un protocollo condiviso. Azienda Provinciale per i Servizi Sanitari, Trento, Italy.
- √ 14-11-2007 14-11-2007 **Lecturer** for the clinical professionals of the Azienda Provinciale per i Servizi Sanitari di Trento on the subject: "L'implementazione di un protocollo condiviso per la pulizia di frese e files per odontoiatria". Corso di formazione sul campo: Pulizia e disinfezione di frese odontoiatriche e strumenti endodontici: elaborazione e applicazione di un protocollo condiviso. Azienda Provinciale per i Servizi Sanitari, Trento, Italy.
- √ 20/04/2009 27/04/2009 **Contract Professor** (Professore a contratto) at the Università degli Studi di Verona, Facoltà di Medicina e Chirurgia. Laurea Degree course: "Biomedical Laboratory Techniques - Tecniche di Laboratorio Biomedico", Didattica integrativa correlata al tirocinio. Attività seminariale: "Methodologies and techniques for electron microscopy - Metodologie e Tecniche di Microscopia elettronica". SSD BIO/12. CFU 1. Hours: 12. Academic Year 2008 - 2009.
- √ 30/04/2010 13/05/2010 **Contract Professor** (Professore a contratto) at the Università degli Studi di Verona, Facoltà di Medicina e Chirurgia. Laurea Degree course: "Biomedical Laboratory Techniques - Tecniche di Laboratorio Biomedico", Didattica integrativa correlata al tirocinio. Attività seminariale: "Methodologies and techniques for electron microscopy - Metodologie e Tecniche di Microscopia elettronica". SSD BIO/12. CFU 1. Hours: 12. Academic Year 2009 - 2010.
- √ 01/11/2010 31/12/2010 **Contract Professor** (Professore a contratto) at the Università degli Studi di Verona, Facoltà di Medicina e Chirurgia. Laurea Degree course: "Biomedical Laboratory Techniques - Tecniche di Laboratorio Biomedico", Modul: "Misure elettriche ed elettroniche". Insegnamento: Scienze Fisiche e Statistiche. SSD ING-INF/07. CFU 2. Hours: 20. Academic Year 2009 - 2010.
- √ 20/04/2011 27/04/2011 **Contract Professor** (Professore a contratto) at the Università degli Studi di Verona, Facoltà di Medicina e Chirurgia. Laurea Degree course: "Biomedical Laboratory Techniques - Tecniche di Laboratorio Biomedico", Modul: "Misure elettriche ed elettroniche". Insegnamento: Scienze Fisiche e Statistiche. SSD ING-INF/07. CFU 2. Hours: 20. Academic Year 2010 - 2011.
- √ 01/11/2011 31/12/2011 **Contract Professor** (Professore a contratto) at the Università degli Studi di Verona, Facoltà di Medicina e Chirurgia. Laurea Degree course: "Biomedical Laboratory Techniques - Tecniche di Laboratorio Biomedico", Modul: "Misure elettriche ed elettroniche". Insegnamento: Scienze Fisiche e Statistiche. SSD ING-INF/07. CFU 2. Hours: 20. Academic Year 2011 - 2012.
- √ 01-03-2014 01-03-2014 **Lecturer** for the staff of the Studio Dentistico Associato Tomasi Bottamedi on the subject: "Sterilization in Dental Offices". Studio Dentistico Associato Tomasi Bottamedi: Trento Italia.
- √ 02-05-2018 03-05-2018 **Lecturer** at the postgraduate course of the Faculty of Nursing at the Federal University of Goiás and the Pontifical Catholic University of Goiás, Brasile, on the following topics: "Reprocessing of single-use medical devices" , "Endotoxin approach in the reprocessing of reusable medical devices".
- √ 04-05-2018 06-05-2018 **Lecturer** at the postgraduate course of the Nursing School, University of São Paulo, Brazil, on the following topics: "Surface characteristics of single-use electrosurgical pencils after clinical reuse and in-hospital reprocessing", "Quantification of ATP in last rinse water of automated washer disinfectors as a tool for monitoring the process", "Cleaning and disinfection of endodontic files and dental burs", "The contribution of scanning electron microscopy in the quality control of medical devices".
- √ 01-06-2022 30-06-2022 **Member of the examination committee** for admission to the "Collegio Clesio" at the University of Trento for the candidates of the specialist degree courses of the academic year 2022-2023 in the technical-scientific area.
- √ 01-06-2022 30-10-2022 **Member of the Organizing committee** of the summer school "Mirandola Summer Camp: una prospettiva sullo sviluppo, produzione e sicurezza dei dispositivi medici" <https://event.unitn.it/mirandola-summer-camp/>, dedicated to the undergraduate students of the Inter-Ateneo degree course in "Ingegneria dei Sistemi Medicali per la Persona" @ University of Verona, Trento e Modena Reggio Emilia. The event was held from 29-27 September 2022 in Mirandola (BO), Italy.
- √ 01-05-2023 30-05-2023 **Member of the examination committee** for admission to the "Collegio Clesio" at the University of Trento for the candidates of the master's degree courses of the academic year 2023-2024 in the technical-scientific area.
- √ 01-06-2023 30-11-2023 **Member of the Organizing committee** of the summer school "Mirandola Summer Camp: Tecnologie biomediche tra competitività e innovazione per una value-based healthcare" <https://event.unitn.it/mirandola-summer-camp/>, dedicated to the undergraduate students of the Inter-Ateneo degree course in "Ingegneria dei Sistemi Medicali per la Persona" @ University of Verona, Trento e Modena Reggio Emilia. The event was held from 2-4 October 2023 in Mirandola and Modena (BO), Italy.

- √ 3-7-2023 6-7-2023 **Lecturer** of the seminar “ELEMENTI DI ELABORAZIONE E ANALISI QUANTITATIVE DELLE IMMAGINI CON IMAGEJ”, part of the seminar cycle “Ambienti software e soft skills” dedicated to master and specialist degree students of the Department of Industrial Engineering, University of Trento. Hours: 7. Academic year 2023-2024
- √ 01-05-2024 30-05-2024 **Member of the examination committee** for admission to the “Collegio Clesio” at the University of Trento for the candidates of the master's degree courses of the academic year 2024-2025 in the technical-scientific area.
- √ 01-05_2024 to present **Lecturer** at the Università degli Studi di Trento, Facoltà di Medicina e Chirurgia. Laurea Degree course: “Medicina e Chirurgia”, Modulo: “Robotica in Medicina”. Hours: 4. Academic Year 2023 - 2024.
- √ 01-09_2023 to present **Lecturer** at the Inter-Ateneo degree course in “Ingegneria dei Sistemi Medicali per la Persona” @ University of Verona, Trento e Modena Reggio Emilia. Teaching Module: “Tirocinio curriculare”. Hours: 20. CFU: 9 Academic Year 2011 - 2012.
- √ 01-09_2023 to present **Head of the Internship Commission** at the Inter-Ateneo degree course in “Ingegneria dei Sistemi Medicali per la Persona” @ University of Verona, Trento e Modena Reggio Emilia.

Research projects participation

- √ 01-03-2002 31-08-2005 **Co-investigator** in the biomedical research project “SIX-SICC” (Safety in interventional Cardiology and Cardiac Surgery) at Dipartimento di Fisica, Università degli Studi di Trento. Public call “Fondo Unico per la Ricerca 2001” Funded by: Provincia Autonoma di Trento.
- √ 01-03-2006 01-03-2007 **Co-investigator and scientific secretariat** of the biomedical research project “NaPRest” (Nanotechnologies for the Prevention of Restenosis). Public call “Bando pubblico Ricerca Finalizzata”. Funded by Ministero della Salute, Italy 2004.
- √ 01-11-2006 01-11-2009 **Co-investigator** in the biomedical research project “RIFEndO” (Role of the Interface in the Failure of bone Endoprosthesis). Public call “Bando pubblico per progetti di ricerca tecnologica applicata nel settore bio-medico 2005”. Funded by: Fondazione Cassa di Risparmio Trento e Rovereto.
- √ 01-10-2009 01-03-2012 **Principal investigator** in the biomedical research project “RuBiCat” (Ruolo del biofilm microbico e miglioramento dei dispositivi per la prevenzione delle infezioni correlate al catetere venoso centrale). Public call “Bando pubblico per borse destinate a giovani ricercatori 2009”. Funded by: Fondazione Cassa di Risparmio Trento e Rovereto. The activities were developed at Biotech-Centro Interdipartimentale per le Biotecnologie, Università degli Studi di Trento, Dipartimento di Medicina di Laboratorio, UO Anestesia e Rianimazione, UO Nefrologia Azienda Provinciale per i Servizi Sanitari di Trento, Dipartimento di Fisica, Università degli Studi di Trento
- √ 01-01-2010 01-01-2015 **Co-investigator** in the international collaborative project “Morphogenesis of Peri-implant Mucosa: Histological and ESEM Analysis of Human Specimens” Funded by Department of Periodontology, University of Goteborg and Astra Tech, Sweden (now Dentsply, USA).
- √ 01-04-2011 01-04-2014 **Co-investigator** in the biomedical research project 4M (Multiphoton Microscopy on Malignant Melanocytic skin lesions) Public call “Bando pubblico per progetto ricerca sanitaria finalizzata della Provincia Autonoma di Trento 2009”
- √ 01-06-2011 01-10-2013 **Principal investigator** in the biomedical international research project: “Microstructure and composition of haemodialysis catheter thrombi”. Funded by Dept. Industrial Engineering, University of Trento, Dept. of Mechanical Engineering, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, Division of Nephrology at Trento Hospital, Department of Laboratory Medicine, APSS Trento.
- √ 01-01-2012 01-01-2015 **Co-investigator** in the biomedical research project “EViVa” (Efficacy in vivo of cartilage artificial implants). Public call “Bando pubblico per progetti di ricerca scientifica nei settori delle scienze biomolecolari e delle scienze biomediche 2011” Funded by: Fondazione Cassa di Risparmio di Trento e Rovereto.
- √ 01-11-2012 01-12-2017 **Principal investigator** of the clinical investigation “Micromorphology and composition of coronary thrombus”. Funded by IRCS-FBK and APSS Trento.
- √ 01-01-2016 31-12-2019 **Co-investigator** in the applied research project “BIOSURF_COAT” (Biosurfactant-based coatings for the inhibition of microbial adhesion on materials for medical use: experimental models, functionalization strategies and potential applications). Public call “Excellent PI, Panel 2 Physical Science and Engineering, 2005. Funded by: Compagnia di San Paolo, Italy.
- √ 01-01-2016 to present **Co-investigator** in the biomedical research project “New anti-bacterial surfaces for oral implantology: an integrated approach based on metagenomic profiling of peri-implant microbiome and testing the material-microorganism interaction”. Public call “Bando pubblico 2015” Funded by: Società Italiana di Parodontologia e Implantologia.

- √ 01-01-2016 31-12-2018 **Co-investigator** and **Task Responsible** in the EU research and innovation action project “UNCAP – Ubiquitous iNteroperable Care for Ageing People”. GA 643555. Public call PHC-2014, Horizon 2020 Framework Program. Funded by the European Union.
- √ 01-09-2017 31-12-2019 **Co-investigator** in the European Pre Commercial Procurement: “ANTI-SUPERBUG Precommercial procurement” GA 688878. Public call: H2020-ICT-2015, Topic: ICT 36-2015 “Pre-commercial procurement open to all areas of public interest requiring new ICT solutions”. Horizon 2020 Framework Programme. Funded by the European Union.
- √ 01-12-2017 30-06-2021 **Co-investigator** and **WP responsible** in the EU research and innovation action project “CAPTAIN – Coach Assistant via Projected and Tangible Interface”. Public call SC1-2017-CNECT-1, Horizon 2020 Framework Program. Funded by the European Union.
- √ 18-04-2019 to present **Principal investigator** of the clinical investigation study "Ridge Preservation with the use of a Xenogenic Bone Graft Material and a pre-hydrated Collagen Membrane: A Multicenter Randomized Controlled Clinical Trial". An Investigator Initiated Study co-founded by Dentsply Sirona Implants, Mölndal, Sweden via a public competitive call for projects.
- √ 01-03-2020 to present **Technical responsible** of the LASS-Covid-19, a joined laboratory between Dipartimento Ingegneria Industriale, Università degli Studi di Trento & Laboratorio Igiene Pubblica, Azienda Provinciale per i Servizi Sanitari di Trento for testing safety and efficacy of surgical face masks according to UNI EN 14683 in the Covid-19 pandemic. Supported by Università di Trento and Azienda provinciale per i Servizi sanitari di Trento.
- √ 01-01-2022 to present **Principal investigator** of the Research and innovation project titled “Monitoraggio multisensoriale di ambienti, superfici e dispositivi per il miglioramento della assistenza e cura” Co-financed by the European Union - FSE-REACT-EU, PON Research and Innovation 2014-2020 DM1062 / 2021 and Steelco S.p.a. Miele Group, Riese (TV), Italy.
- √ 01-03-2023 to present **Principal investigator** of the Industrial Biomedical Research and Innovation project titled “Innovative methods for the real time quantification of non condensable gases in the steam sterilization of medical devices”. Founded by Steelco S.p.a. Miele Group, Riese (TV), Italy.
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Research activity in the clinical field

- √ 01-06-2007 01-11-2009 Co-investigator in the **clinical observational study** “Role of the Interface in the Failure of Bone Endoprosthesis”. Principal Investigator Dr Paolo Dorigotti, Division of Orthopaedics and Traumatology, S. Maria del Carmine Hospital, Rovereto, Italy. Promoted by APSS. The study was part of the biomedical research project “RIFEndO” (Role of the Interface in the Failure of bone Endoprosthesis). Funded by: Fondazione Cassa di Risparmio Trento e Rovereto.
- √ 01-06-2010 01-03-2012 Co-investigator in the **clinical observational study** “Comparative evaluation of the effectiveness of coated vs uncoated Central Venous Catheters”. Principal Investigator: Dr. Edoardo Geat, Intensive care Unit, S. Chiara Hospital Trento, Italy. Promoted by APSS. The study was part of the biomedical research project “RuBiCat” (Ruolo del biofilm microbico e miglioramento dei dispositivi per la prevenzione delle infezioni correlate al catetere venoso centrale). Funded by: Fondazione Cassa di Risparmio Trento e Rovereto.
- √ 01-02-2010 01-03-2012 Co-investigator in the **clinical pilot trial** “Safety and Effectiveness of a innovative double-cuffed long-term central venous catheter for hemodialysis”. Principal Investigator: Dr. Andrea Bandera, Division of Nephrology, S. Chiara Hospital Trento, Italy. Promoted by APSS. The study was part of the biomedical research project “RuBiCat” (Ruolo del biofilm microbico e miglioramento dei dispositivi per la prevenzione delle infezioni correlate al catetere venoso centrale). Funded by: Fondazione Cassa di Risparmio Trento e Rovereto.
- √ 01-01-2010 01-01-2015 Co-investigator in the **interventional prospective clinical trial**: “Morphogenesis of Peri-implant Mucosa: Histological and ESEM Analysis of Human Specimens”. Principal Investigator: Dr. Prof. Cristiano Tomasi, University of Goteborg, Sweden. Promoted by University of Trento. The study was part of the international collaborative project “Morphogenesis of Peri-implant Mucosa: Histological and ESEM Analysis of Human Specimens” Funded by Department of Periodontology, University of Goteborg and Astra Tech, Sweden (now Dentsply, USA).
- √ 01-04-2011 01-04-2014 Co-investigator in the **clinical observational study**: “Multiphoton Microscopy on Malignant Melanocytic skin lesions”. Principal Investigator Dr. Sebastiana Boi, Division of Histopathology, S. Chiara Hospital, Trento. Promoted by APSS. The study was part of the research project 4M (Multiphoton Microscopy on Malignant Melanocytic skin lesions). Funded by Autonomous Province of Trento.

- √ 01-06-2011 01-10-2013 Co-investigator in the **clinical observational study**: “Microstructure and composition of haemodialysis catheter thrombi”. Principal Investigator: Dr. Giuliano Brunori, Division of Nephrology, S. Chiara Hospital, Trento, Italy. Promoted by APSS Trento.
- √ 01-01-2012 01-01-2015 Co-investigator in the **clinical observational study**: “Characterization of the articular cartilage using MRI and histopathology”. Principal Investigator: Dr Paolo Odorizzi, Division of Orthopaedics and Traumatology, S. Maria del Carmine Hospital, Rovereto, Italy. Promoted by APSS Trento. The study was part of the biomedical research project “EViVa” (Efficacy in vivo of cartilage artificial implants). Co-funded by: Fondazione Cassa di Risparmio di Trento e Rovereto.
- √ 01-11-2012 01-12-2017 Co-investigator in the **clinical observational study** “Micromorphology and composition of coronary thrombus”. Principal Investigator: Dr. Roberto Bonmassari, Cardiology Division, Trento Hospital, Italy. Promoted by APSS Trento.
- √ 01-01-2016 31-12-2018 Co-investigator in the **pilot multicenter trial**: “Ubiquitous Interoperable Care for Ageing People - UNCAP: a pilot multicentre study”. Local principal Investigator: Dr. Giovanni MA Guandalini, Division of Rehabilitation, Villa Rosa Hospital, Pergine Italy. Promoted by the UNCAP consortium. The study was part of the EU research and innovation action project “UNCAP - Ubiquitous iNteroperable Care for Ageing People”. GA 643555. Public call PHC-2014, Horizon 2020 Framework Program. Funded by the European Union.
- √ 18-04-2019 to present Principal investigator in the **multicenter randomized controlled clinical trial**: "Ridge Preservation with the use of a Xenogenic Bone Graft Material and a pre-hydrated Collagen Membrane: A Multicenter Randomized Controlled Clinical Trial" . Clinical co-investigator: Dr. Paolo Ghensi, University of Trento, Italy. Promoted by Bruno Kessler Foundation. Co-funded by Dentsply Sirona Implants, Mölndal, Sweden.
- √ 01-08-2021 31-12-2022 Co-investigator in the **international multicenter pilot trial**: “International Multicenter Pilot Study to evaluate the performance of the bugwatcher solution for detection of multidrug-resistant bacteria in the hospital setting”. Principal Investigator: Dr. Sebastiano Rizzardo, Division of Internal Medicine, S. Maria del Carmine Hospital, Rovereto , Italy. Promoted by Pulso Group, Spain. The study is part of the Phase III activities of the European Pre-Commercial Procurement: “ANTI-SUPERBUG Precommercial procurement” GA 688878. Public call: H2020-ICT-2015, Topic: ICT 36-2015 “Pre-commercial procurement open to all areas of public interest requiring new ICT solutions”. Horizon 2020 Framework Programme. Funded by the European Union.
- √ 01-08-2021 31-12-2022 Co-investigator in the **international multicenter observational study**: “Observational pilot study to assess the screening performance of the Sens4Care prototype solution in hospital rooms with patients with suspected bacterial infections with Clostridium difficile, Klebsiella pneumoniae and Methicillin-Resistant Staphylococcus Aureus (MRSA)”. Principal Investigator: Dr. Sebastiano Rizzardo, Division of Internal Medicine, S. Maria del Carmine Hospital, Rovereto , Italy. Promoted by Tech4Care, Falconara, Italy. The study is part of the Phase III activities of the European Pre-Commercial Procurement: “ANTI-SUPERBUG Precommercial procurement” GA 688878. Public call: H2020-ICT-2015, Topic: ICT 36-2015 “Pre-commercial procurement open to all areas of public interest requiring new ICT solutions”. Horizon 2020 Framework Programme. Funded by the European Union.
- √ 01-06-2024 to present Co-investigator in the **multicenter randomized controlled clinical trial**: "Effect of a porcine-derived acellular dermal matrix on peri-implant soft tissue morphology: a histological and clinical multicenter randomized controlled clinical trial " . Principal investigator: Dr. Paolo Ghensi, University of Trento, Italy. Promoted by Prebiomics, Trento Italy. Co-funded by BIOHORIZONS Implant Systems Inc. Birmingham, AL, United States.

International scientific Collaborations:

- √ Dept. of Periodontology, University of Goteborg, Sweden (Prof. Tord Berglund)
- √ Dept. of Anatomy, Histology and Embryology, Innsbruck Medical University, Austria (Prof. G. Klima)
- √ Dept. of Physics, University of Eindhoven, The Netherlands (Prof. K. Kopinga)
- √ Dept. of Mechanical Engineering, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil (Dr. Rudolf Huebner)
- √ Medical School, Aristotle University, Thessaloniki, Greece (Prof. Panagiotis Bamidis)
- √ Dept. of Nursing, Universidade Federal dos Vales do Jequitinhonha e Mucuri, Teofilo Otoni, Brazil (Prof. Thabata C. Lucas)
- √ Department of Biomedical Engineering, Antioquia School of Engineering - CES University, Sabaneta, Colombia (Dr. Yesid Montoya)

- √ Department of Microbiology, Kütahya Health Sciences University, Kütahya, Turkey (Prof. Duygu Percin Renders)
- √ National Association for Sterilization in Argentina (Fundacion para el Desarrollo de la Esterilizacion en la Argentina - FUDESA), Argentina (Dr. Helga Sager de Agostini)
- √ School of Psychology, Dublin City University, Dublin, Ireland (Prof. Louise Hopper)
- √ National Health Service Scotland, Edinburgh, UK (Dr. Sulisti Holmes)

National scientific collaborations:

- √ Istituto Ortopedico Rizzoli, Bologna (Dr. MP. Landini)
- √ Dip. di Neuroscienze, Università di Padova (Prof. E. Bressan)
- √ Dip. di Scienze Biomediche, Università di Padova (Dr. B. Zavan)
- √ Dip. di Medicina Sperimentale e Chirurgia, Università Tor Vergata, Roma (Dr. C. Fontana)
- √ Dipartimento di Ortopedia e Traumatologia, APSS Trento (Dr. F. Cortese)
- √ Centro di Chirurgia Ricostruttiva e delle Infezioni Osteo-articolari, IRCCS Istituto Ortopedico Galeazzi (Dr. CL Romanò)
- √ Dip. Scienze del Farmaco, Università Piemonte Orientale (Dr. L. Fracchia)
- √ Dip. di Patologia e Diagnostica, Università di Verona (Prof. A. Signoretto)
- √ Associazione Microbiologi Clinici Italiani (Dr I. Caola)
- √ Dip. di Scienze Biomediche per la Salute, Università degli Studi di Milano (Prof. L. Drago)
- √ Programma Innovazione e Ricerca Clinica in Sanità, Fondazione Bruno Kessler, Trento (Dott. G.Nollo)
- √ Clinica di Malattie Infettive, Policlinico S. Orsola Malpighi, Università di Bologna (Prof. P. Viale)
- √ Divisione Malattie Infettive, Ospedali dei Colli, Napoli (Dr. M. Conte)
- √ Centro di Riferimento Oncologico, IRCCS, Aviano (Dr. G. Basaglia)
- √ UO di Cardiologia, Ospedale di Trento (Dr R. Bonmassari)
- √ UO di Istologia e Anatomia Patologica, Ospedale di Trento (Dr. M. Barbareschi)
- √ Dip Laboratorio e Servizi, Azienda provinciale per i Servizi Sanitari di Trento (Dr P. Caciagli)
- √ Dipartimento di Ingegneria Enzo Ferrari, Università di Modena e Reggio Emilia, Modena - Italy and Science & Technology Park for Medicine, TPM, Mirandola, Modena, Italy (Prof. Luigi Rovati)
- √ Dipartimento di Ingegneria Industriale e Scienze Matematiche, Università Politecnica delle Marche, Ancona, Italy (prof. Nicola Paone)

Permanencies abroad:

- √ 23-11-2006 21-12-2006 **Visiting researcher** at the Department of Periodontology, Institute of Odontology, The Sahlgrenska Academy at Göteborg University, Göteborg, Sweden, for the acquisition of competencies in processing bone implant samples for optical and electron microscopy characterization (paraffin and resin embedding, microtome slicing, histological preparation of hard tissues and metallic implants by the sawing and grinding method).
- √ 02-05-2018 03-05-2018 **Visiting lecturer** at Federal University of Goiás e Pontifical Catholic University of Goiás, Brazil. Lecturer at the postgraduate course of the Faculty of Nursing at the Federal University of Goiás and the Pontifical Catholic University of Goiás, Brasile, on the following topics: "Reprocessing of single-use medical devices", "Endotoxin approach in the reprocessing of reusable medical devices".
- √ 04-05-2018 06-05-2018 **Visiting lecturer** at Nursing School - University of São Paulo, Brazil. Lecturer at the postgraduate course of the Nursing School, University of São Paulo, on the following topics: "Surface characteristics of single-use electrosurgical pencils after clinical reuse and in-hospital reprocessing", "Quantification of ATP in last rinse water of automated washer disinfectors as a tool for monitoring the process", "Cleaning and disinfection of endodontic files and dental burs", "The contribution of scanning electron microscopy in the quality control of medical devices".

Congresses and Workshops organization

- √ 21-09-2007 21-09-2007 **Scientific responsible** of the Workshop “L’artroprotesi in ortopedia: problemi e soluzioni per il fallimento protesico”. Azienda provinciale per i Servizi Sanitari, Trento, Italy
- √ 28-09-2007 28-09-2007 **Scientific responsible** of the Workshop “L’impianto dentale: ruolo della superficie per l’osteointegrazione”. Azienda provinciale per i Servizi Sanitari, Trento, Italy
- √ 26-10-2016 29-10-2016 **Chairman** of the international congress session “Education Initiatives”, 17th World Sterilization Congress. Brisbane, Australia.
- √ 26-10-2016 29-10-2016 **Scientific committee member** of the WFHSS 2016, 17th World Sterilization Congress. Brisbane, Australia.
- √ 04-10-2017 07-10-2017 **Scientific committee member** of the 18th World Sterilization Congress. Bonn, Germany.
- √ 29-11-2017 01-12-2017 **Scientific committee member** of the WFHSS 2017, 10th International Sterilization Disinfection Congress. Antalya, Turkey.
- √ 31-10-2018 03-11-2018 **Scientific Committee Member** of the WFHSS 2018, 19th World Sterilization Congress. Mexico City, Mexico.
- √ 4-05-2019 26-05-2019 **Chairman** of the plenary session: “PROGETTARE NUOVE ALTERNATIVE” at the 29th National Congress ANOTE/ANIGEA. Turin, Italy.
- √ 09-11-2019 12-11-2019 **Organizing committee member** of the **and chairman** of the congress session “INFEZIONI DA DEVICE VASCOLARI”, a joined session between the AMCLI Working group on healthcare related infections and implantable device infection and the European ESGIAI-ECCMID group, at the XLVIII Congresso Nazionale AMCLI 2019. Rimini, Italy.
- √ 27-11-2019 01-12-2019 **Organizing committee member** of the 11th International Sterilization and Disinfection Congress. Antalya, Turkey.
- √ 09-12-2021 12-12-2021 **Organizing committee member** of the 12th International Sterilization and Disinfection Congress. Antalya, Turkey.
- √ 22-06-2022 24-06-2022 **Organizer and Chair** of the Special Session “Innovative sensors and technologies for preventing air-borne infection spreading: detection, monitoring, tracking and treatment” at the international conference IEEE Medical Measurements and Applications 2022. Catania, Italy.
- √ 16-11-2022 19-11-2022 **Chairman** of the plenary session 6 “MONITORING THE EFFECTIVENESS OF STERILIZATION” at the 23rd World Congress of Sterilization Sciences. November 16-19, 2022. Barcelona, Spain.
- √ 23-11-2023 26-11-2023 **Organizing committee member** of the 13th International Sterilization and Disinfection Congress. November 23-26, 2023. Marmaris, Turkey.

Participation to research groups (featured activities)

- √ 23-12-2009 05-05-2013 **Post-doc research fellow at the Interdepartmental Center for Biomedical Technologies of the University of Trento**. Research topics included biomaterials, tissue engineering, medical devices, sterilization processes, per implant tissue characterization, microbial biofilm, and infections related to the implantable medical devices. Activities and transfer of research results into practice were obtained thanks to the collaboration with several clinical and industrial partners at both national and international levels.
- √ 01-01-2013 to present. **Member of the working group for the Infections related to orthopaedic prostheses - GLIOP (Gruppo di Lavoro per le Infezioni correlate alle Protesi Ortopediche) and of the working group for the infections related to the vascular prostheses - GLIPV (Gruppo di Lavoro per le Infezioni correlate alle Protesi Vascolari)** of the National Association of Clinical Microbiologists AMCLI (Associazione Nazionale Microbiologi Clinici), with competences in biomaterials and implantable medical devices. Both working groups are highly multidisciplinary including infectious disease specialists, microbiologists, orthopaedic surgeons and cardiologists and vascular surgeons. The GLIOP working group published in 2013 the “Percorso Diagnostico delle Infezioni delle Protesi Articolari”, then updated in 2017 into the “Percorso Diagnostico di Laboratorio delle Infezioni della Protesi Articolari e dei Mezzi di osteosintesi” (http://www.amcli.it/wp-content/uploads/2017/04/PD-InfezioniOsteo_articolari-revisione-03_05_2017.pdf). The documents are the current Italian guidelines for the management of the microbiological diagnosis of the infection related to arthroprostheses and fracture fixation devices.
- √ 06-05-2013 to present **Resident researcher and then affiliated researcher of the Healthcare Research and Innovation Program (IRCS-PAT) of the Bruno Kessler Foundation** in Trento. In this research group, he dealt with the design and implementation of pre-clinical and clinical investigations with innovative medical devices and experimental therapeutic protocols realized in clinics and hospitals at both national and

international levels. Further, the participation in several European projects (UNCAP, H2020-PHC-2014; CAPTAIN, H2020-SC1-2017) and technology transfer activities with biomedical companies (CARDIOLINE e MEDICALTECH) provides a wide range of international collaborations.

- √ 01-04-2015 to present **Technical coordinator of the biomedical research activities at the Section for Electron Microscopy of the Azienda Provinciale per i Servizi Sanitari di Trento.** The activity includes the fund raising and the implementation of preclinical and clinical research projects according to the suggestions and clinical needs of clinicians and nurses of the Provincial hospitals. The working group at the Section for Electron Microscopy is multidisciplinary and includes, beyond the candidate, a clinical pathologist, a microbiologist, and a biomedical technician. The participation in several biomedical research projects and clinical investigations (SICC-SIX, RiFEndO, BIOSURF_COAT, EViVA) created a relevant network of national and international collaborations with other clinical and research institutions as well as industrial partners.
- √ 25-06-2018 to present **Member of the "3M Medical Solutions & Device Reprocessing Global Leadership Advisory Council",** a global forum of key-opinion leaders on sterilization, epidemiology and infection prevention, with a specific instance on cleaning, disinfection and sterilization processes and technologies. The Advisory Council was created by the 3M Medical Solution Division (St. Paul, MN, USA) and includes representatives from 8 different countries worldwide. The advisory council is independent and meets regularly to pursue the following objectives: 1) Review of new clinical evidence and thought leadership on current issues related to cleaning, disinfection and sterilization practices. 2) Foster collaboration and discussion among experts to define current challenges and potential resolutions to be investigated. 3) Identify evidence gaps and potential study areas to improve device reprocessing. 4) Gain input and feedback on future 3M products and programs 5) Create an opportunity to network with peers and 3M professionals from across the globe.
- √ 07-11-2019 31-12-2019. **Member of the Experts Board of the EU Pre-Commercial Procurement (PCP) project Anti-SUPERBugs.** The expert board has the role of evaluating the technical offers of bidding companies that participate in the PCP European call. **Chair of the Evaluator panel 1,** including Prof. Sema Dumanli (Electrical and Electronics Engineering Department, Bogazici University, Turkey), Dr. José Trenado Alvarez (Intensive Care Department, University Hospital Mutua de Terrassa, Spain). The Anti-SUPERBugs has the objective to "support and finance private R&D activities in the field of advanced ICT solutions, aimed at detecting micro-organisms that may determine the incurrence of hospital-acquired infections and control the diffusion of infections within healthcare providers. This will both address the needs of healthcare providers in increasing HAIs (Hospital Acquired Infections) control and contribute in the development of a new stream of products in the life science and medical device industries."
- √ 01-04-2021 to present **Member of the Italian Network of Covid-19 Laboratories for face mask testing.** The network combines several Italian Universities and research centres collaborating in the development and testing of face masks according to minimum requirements for safety and efficacy as specified in EN 14683:2019+AC and biocompatibility as specified in ISO 10993-1:2010 during the Covid-19 pandemic. The network is aimed at setting up new laboratory facilities and procedures to meet mask producers' requests, measurements, and reporting activities. Moreover, an analysis of the uncertainty associated to the measurements of Differential Pressure and Bacterial Filtration Efficiency is ongoing with potential improvement of current standards. Participating groups are: LASS-TN-Covid-19, Laboratorio Associato per la verifica di Dispositivi di Protezione, Dipartimento di Ingegneria Industriale Università di Trento; Laboratorio di Sanità Pubblica, Azienda Provinciale per i Servizi Sanitari di Trento, Trento; Dipartimento di Ingegneria Enzo Ferrari, Università di Modena e Reggio Emilia, Modena; Science & Technology Park for Medicine, TPM, Mirandola, Modena; AntiCovidLab - Torre Biologica - Università degli Studi di Catania, Catania; INFN-Laboratori Nazionali del Sud, Catania; Università degli Studi di Cagliari, Cagliari; UNICAM- U-TYM Lab Microbiologia - ex Dip. Biologia, Università di Camerino, Camerino; Presidio Tecnico/Scientifico di Ateneo per l'Emergenza COVID-19, Centro Servizi Metrologici e Tecnologici Avanzati, Università di Napoli Federico II, Napoli, Italy; LABC19 Centro di Ricerca e Servizio per l'Emergenza COVID-19, Università Politecnica delle Marche, Ancona.

Awards and Scholarship grants:

- √ 28-06-2005 **Grant** for "Young Microscopist" by the Italian Society for Microscopic Sciences (SISM) to participate at the 7th Multinational Congress on Microscopy, Portoroz, Slovenia.
- √ 10-10-2006 **Scholarship** grant of the Stiftelsen C.M. Leric by the Italian-Swedish Institute of Culture, Stokolm, to realize a research period in Sweden.
- √ 05-06-2008 **Grant** for the participation to the COST-WG3 Training School (COST Action 537): Core Laboratories for the Improvement of Medical Devices in Clinical Practice from the Failure of the Explanted Prostheses Analysis (FEPA). Biomedical Engineering Institute, University of Porto. 5-7 giugno, 2008, Porto, Portugal.

- √ 17-09-2008 **Grant** from the Italian Society of Pure and Applied Biophysics to attend the National SIBPA Congress Congresso Nazionale SIBPA-Società Italiana di Biofisica Pura e Applicata 2008, Roma, Italy.
- √ 10-10-2009 **“Best lecture contribution”** at the 10th World Congress of Sterilization. 7-10 Ottobre, 2009, Heraklion, Grecia.
- √ 11-09-2010 **Grant** from the Italian Society of Pure and Applied Biophysics to attend the National SIBPA Congress Congresso Nazionale SIBPA-Società Italiana di Biofisica Pura e Applicata 2010, Arcidosso (GR), Italy.
- √ 08-11-2011 **“Best poster contribution”** from Associazione Microbiologi Clinici Italiani at the XL Congresso Nazionale AMCLI 2011a.
- √ 01-12-2011 **“Best lecture award”** from the Italian Society of Experimental Biology (SIBS), 84° Convegno Nazionale SIBS 2011, Bologna, Italy.
- √ 11-11-2018 **“Best poster award”** from Associazione Microbiologi Clinici Italiani at the XLVII Congresso Nazionale AMCLI 2018.

Industrial Research and Technology Transfer

- √ 01-01-2006 01-11-2009 Co-investigator in the **industrial research project** “Microstructural and Microbiological characterization of polymer-composite materials filled by nanosized photocatalytic titanium dioxide”. Funded by Quarella S.p.a, Verona, Italy.
- √ 01-10-2010 01-01-2012 Principal investigator in the **industrial biomedical project** CRRP (Characterization of Radiopacity in Prosthetic Coating). Funded by Eurocoating spa, Trento Italy.
- √ 01-06-2013 01-06-2015 Principal investigator in the **industrial biomedical project** CRRP2 (Characterization of Radiopacity in Prosthetic Coating for Spine Prostheses). Funded by Eurocoating, Trento Italy.
- √ 01-03-2009 31-12-2012 Principal investigator in the **industrial contract research** “Morphological and compositional analysis of stem for hip endoprosthesis retrieved during joint revision”. Sponsored by Ala Ortho SRL, Cormano, Italy.
- √ 01-05-2012 30-11-2012 Principal investigator in the **industrial contract research** “Morphological and compositional analysis of hip prosthetic stem with surface defects. Sponsored by Ala Ortho SRL, Cormano, Italy
- √ 01-05-2011 30-04-2012 Principal investigator in the **industrial contract research** “Esem analysis of human specimens”. Sponsored by Astra Tech AB, Mölndal, Sweden.
- √ 01-01-2012 30-12-2013 Principal investigator in the **industrial research project**: “Morphogenesis of peri-implant mucosa at titanium abutment with different surfaces” Sponsored by Astra Tech AB, Mölndal, Sweden.
- √ 01-02-2016 31-01-2018 Principal investigator in the **industrial research project**: “Quantification of ATP in the last rinse water of automated washer disinfectors: potential for optimizing the reprocessing of reusable medical devices”. Sponsored by 3M Sterilization, Neuss, Germany.
- √ 01-03-2016 30-06-2016 Principal investigator in the **industrial contract research** “Compatibilità della formulazione detergente Lysonox D1 (Adranox) con materiali di interesse biomedico”. Sponsored by Adranox snc, Mantova, Italy.
- √ 01-09-2017 31-12-2017 Principal investigator in the **industrial contract research** “Rimozione del biofilm microbico mediante formulazione detergente Lysonox D1 (Adranox)”. Sponsored by Adranox snc, Mantova, Italy.
- √ 01-07-2019 31-12-2019 Principal Investigator in the **industrial, biomedical project** “4D steam penetration sensor represents worst-case for steam penetration in channelled instruments. Laboratory study”. Funded by Steelco S.p.a. MIELE Group, Riese Pio X, Italy.
- √ 01-08-2020 31-12-2020 Principal investigator in the **industrial contract research**: “Efficacy of novel methods for the disinfection of cable cars in the Covid-19 pandemic”. Funded by Trentino Sviluppo and Elettromeccanica Adige S.r.l., Rovereto, Italy.

Industrial Research Partners:

- √ SolidToo, Veldhoven, The Netherlands (Dr. JPCM van Doornmalen)
- √ Miele Werk Buermoos GmbH , Buermoos, Austria (Eng. O. Gregor)
- √ Vanguard AG Berlin, Germany (Dr. V. Valhe)
- √ Steelco- Miele Group, Treviso, Italy (Mr. J. Hanson)

- √ INI-NOVATION GMBH, Hessen, Germany (Dr. W. Kniesky)
- √ 3M Infection Prevention Division, Neuss, Germany (Dr. H. Reuter)
- √ Nively SAS, Nice, France (Dr. G. Conti)
- √ DIGIFLAK OU, Tallinn, Estonia (dr. M. Kostin)
- √ nViso SA, Lausanne, Switzerland (dr. L. Keller)
- √ VICOMTECH -Fundacion Centro de Tecnologias de Interaccion Visual y Comunicaciones, San Sebastian, Spain (dr. A. Beristain)
- √ Quarella SpA, Verona, Italy (Dr P. Tassone)
- √ Eurocoating SpA, Trento, Italy (Dr P. Robotti)
- √ Novagenit Srl, Trento, Italy (Dr R. Beretta)
- √ Adler Ortho SpA, Milano, Italy (Dr F. Alemanni)
- √ 3M Sterilization Italia, Milano, Italy (Dr. G. Abbate)
- √ Adranox, Verona Italy (Dr. R. Bacchi)
- √ Sweden&Martina, Padova, Italy (Dr. M Michieli)
- √ Adranox, Verona Italy (Dr. R. Bacchi)
- √ Elettromeccanica Adige S.r.l. Rovereto, Italy (Ing. S. Andreolli)

Other formative and professional experiences

- √ 07-07-2003 11-07-2003 Attend to the Biomaterials Summer School "10° Corso scuola: INGEGNERIA DEI TESSUTI, CELLULE STAMINALI E TERAPIA GENICA", organized by CIRMIB (Interuniversities Research Center on Materials for Biomedical Engineering), Ischia Porto (NA), Italy.
- √ 05-07-2004 09-07-2004 Attend to the Biomaterials Summer School "11° Corso-Scuola: SUPERFICI ED INTERFACCE: MODIFICHE, CARATTERIZZAZIONE E RISPOSTA BIOLOGICA", organized by CIRMIB (Interuniversity Research Center on Materials for Biomedical Engineering), Ischia Porto (NA), Italy.
- √ 22-09-2004 24-09-2004 Attend to the Workshop teorico - pratico "Microscopie e Biocompatibilità", organized by Dipartimento di Scienze Biomediche, Università degli Studi di Modena e Reggio Emilia e SISM (Società Italiana Scienze Microscopiche), Modena, Italy.
- √ 28-10-2004 29-10-2004 Attend to the "Corso teorico-pratico di citochimica ed immunocitochimica ultrastrutturale", organized by the Istituto di Istologia e Analisi di Laboratorio, Università di Urbino "Carlo Bo" and Laboratorio di Biologia Cellulare e Neurobiologia, Dipartimento di Biologia Animale, Università di Pavia. Urbino, Italy.
- √ 20-06-2005 21-06-2005 Attend to the "I Workshop nazionale: Biofilm Microbici 2005" organized by Dr. G. Donelli and Dr. E. Guaglianone, Dipartimento di Tecnologie e Salute, Istituto Superiore di Sanità, Roma, Italy.
- √ 11-07-2005 15-07-2005 Attend to the 12th CIRMIB Biomaterials School and 1st Expertissues (NoE) School "FROM BIOMEDICAL DEVICES TO MOLECULAR RECOGNITION AND TISSUE ENGINEERED PRODUCTS", organized by CIRMIB (Interuniversity Research Center on Materials for Biomedical Engineering) and Expertissue NoE training program on Tissue Engineering, Ischia Porto (NA), Italy.
- √ 27-10-2006 27-10-2006 Attend to the excellence course "NANOPARTICLES: SYNTHESIS AND CHARACTERIZATION" organized by the Scuola di dottorato del Politecnico di Torino, D. Marchisio e L. Montanaro. Torino, Italy.
- √ 16-05-2007 17-05-2007 Attend to the Corso Teorico-Methodologico "Le tecniche microscopiche ed il loro contributo allo studio della cellula", organized by Fondazione IRCCS Istituto Italiano dei Tumori, Milano and Associazione Italiana di Colture Cellulari, with the endorsement of SISM (Società Italiana Scienze Microscopiche). Milano, Italy
- √ 26-10-2007 27-10-2007 Attend to the Symposium "135a riunione della Società emiliano-romagnola-triveneta di ortopedia e traumatologia (SERTOT): PROTESI D'ANCA: MATERIALI A CONFRONTO", Organized by Dr. Luigi Colognese, Direttore U.O. Ortopedia e Traumatologia Ospedale di Cittadella. Padova, Italy.
- √ 24-11-2007 24-11-2007 Attend to the formative event "Tessuti perimplantari in salute e malattia", organized by Associazione Nazionale Dentisti Italiani, sezione di Trento. Trento, Italy.
- √ 08-09-2008 08-09-2008 Invited talk (local host Dr Gianfranco Donelli) to report the results of the PhD research activity about "Riutilizzo di dispositivi monouso in cardiologia interventistica" at the Dipartimento di Tecnologie e Salute, Istituto Superiore di Sanità, Roma, Italy.

- √ 16-10-2008 16-10-2008 Attend to the "Giornata di studio e approfondimento CELLULE STAMINALI MESENCHIMALI IN CLINICA UMANA E VETERINARIA". Organized by Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini", Associazione Italiana Colture Cellulari, Università degli Studi di Milano Dipartimento di Sanità Pubblica, Microbiologia, Virologia. Brescia, Italy
- √ 20-09-2010 21-09-2010 Attend to the Symposium "XIX INCONTRO SCIENTIFICO ANNUALE DEL GRUPPO ITALIANO DI PATOLOGIA ULTRASTRUTTURALE SIAPEC-IAP (GIPU)", Varese, Italy.
- √ 20-02-2009 21-02-2009 Attend to "The 3rd Thesinge biofilm meeting: BIOFILMS all over", Thesinge, The Netherlands. Organized by University Medical Center Hanzeplein, Groningen, The Netherlands.
- √ 26-02-2011 06-02-2011 Participate to the "Giornata di approfondimento: INFEZIONI DELLE PROTESI ARTICOLARI", presenting the lecture "Progetto di ricerca RIFENDO (Ruolo dell'interfaccia nel fallimento delle protesi dell'osso)". The event was organized by Azienda Provinciale per i Servizi Sanitari di Trento, Trento, Italy.
- √ 01-10-2011 05-10-2011 Attend to the 96° Congresso Nazionale della Società Italiana di Ortopedia e Traumatologia (SIOT) "MATERIALI E RIVESTIMENTI IN ORTOPEDIA, BIOTECNOLOGIE APPLICATE ALLA TRAUMATOLOGIA". Rimini, Italy
- √ 20-01-2012 20-01-2012 Attend to the "Giornata di incontro COMITATI ETICI A CONFRONTO. Proposta di partecipazione ad un incontro tra rappresentanti dei Comitati etici interessati a costituirsi in un gruppo collaborativo permanente". Event organized by Azienda Provinciale per i Servizi Sanitari di Trento, Trento, Italy.
- √ 10-09-2012 11-09-2012 Attend to "The 4th Thesinge biofilm meeting: Back to BIOFILMS", Thesinge, The Netherlands. Organized by University Medical Center Hanzeplein, Groningen, The Netherlands.
- √ 11-10-2012 13-10-2012 Attend to the Congresso Nazionale AIOS (Associazione Italiana Operatori della Sterilizzazione). Riccione, Italy.
- √ 01-11-2012 01-11-2013 Advisor of a sandwich doctorate Italy-Brasil in Mechanical Engineering. Research track: Bioengineering. Federal University of Minas Gerais (UFMG): 2011-2014. PhD candidate Dr. T.C. Lucas.
- √ 19-03-2013 21-03-2013 Attend to the "UNIL-FEI Correlative Microscopy Workshop", organized by the Electron Microscopy Facility of the University of Lausanne with the support of FEI-Company, Lausanne, Switzerland.
- √ 14-06-2013 15-06-2013 Attend to the Symposium "141a riunione SERTOT, FRATTURE ESTREMO PROSSIMALE DELL'OMERO, REVISIONE DELLE PROTESI D'ANCA". Organized by Prof. Giovanni Fancellu, Direttore Clinica Ortopedica Traumatologica, Università degli Studi di Trieste, with the endorsement of SIOT (Società Italiana di Ortopedia e Traumatologia). Trieste, Italy.
- √ 24-09-2013 24-09-2013 Attend to the workshop "MANAGEMENT della CENTRALE di STERILIZZAZIONE". Organized by the Istituto Internazionale di Ricerca, with the endorsement of AIOS (Associazione Italiana Operatori della Sterilizzazione). Milano, Italy.
- √ 25-01-2014 25-01-2014 Attend to the Symposium "INFEZIONI IN ORTOPEDIA: UN APPROCCIO MULTIDISCIPLINARE", organized by the Gruppo di lavoro sulle Infezioni delle protesi articolari of the Associazione Microbiologi Clinici Italiani (AMCLI). Bolzano, Italy.
- √ 20-06-2014 20-06-2014 Attend to the symposium "INFEZIONI IN ORTOPEDIA. PERCORSI DIAGNOSTICO-TERAPEUTICI ED IMPATTO ORGANIZZATIVO" organized by the Gruppo di lavoro sulle Infezioni delle protesi articolari of the Associazione Microbiologi Clinici Italiani (AMCLI). , Napoli, Italy
- √ 16-07-2014 17-07-2014 Attend to the "International workshop on Materials for Health: a Value Chain in the frame of H2020" at the I3P Innovative Enterprise Incubator of the Politecnico di Torino, Torino, Italy.
- √ 17-03-2015 17-03-2015 Attend to the symposium "SANIFICAZIONE E DISINFEZIONE NELLE STRUTTURE SANITARIE", organized by SIMPIOS (Società Italiana Multidisciplinare per la Prevenzione delle Infezioni nelle Organizzazioni Sanitarie), Milano, Italy
- √ 21-04-2015 23-04-2015 Attend to Conferences and visit the stands of "Medtec Europe, The International Exhibition for European Medical device Manufacturers", Stuttgart, Germany.
- √ 01-11-2015 01-04-2019 Advisor of a PhD Thesis of the PhD Program in Biomolecular Sciences at CIBIO-Centre for Integrative Biology, University of Trento. PhD Candidate: P. Ghensi: "Characterization of biological and microbiological properties of dental implant surfaces and their relation with peri-implant diseases" A.A. 2015-2018

- √ 20-09-2016 20-09-2016 Attend to the workshop "COMITATI ETICI: Contratti di Sperimentazione Clinica", organized by Istituto Internazionale di Ricerca, Roma Italy.
- √ 04-04-2017 06-04-2017 Attend to Conferences and visit the stands of "Medtec Europe, The International Exhibition for European Medical device Manufacturers", Stuttgart, Germany.
- √ 11-07-2017 12-07-2017 Attend to the Workshop "SPERIMENTAZIONI CLINICHE E POST-MARKETING PER MEDICAL DEVICES", organized by the Institute of Knowledge & Networking, Milano, Italy.
- √ 18-10-2017 18-10-2017 Attend to the Course "Marie Skłodowska-Curie Actions (MSCA)-Innovative Training Networks (ITN)", organized by Divisione Supporto alla Ricerca e Trasferimento tecnologico, Università di Trento, Trento, Italy.
- √ 25-11-2017 25-11-2017 Attend to the "Giornata di informazione: La riabilitazione al domicilio delle persone con demenza e i loro caregivers". Centro Servizi Policlinico di Modena, Modena, Italy.
- √ 09-09-2019 09-09-2019 Opponent of a PhD thesis at the Nursing School, Universidade de São Paulo, São Paulo, Brazil 2019. Candidate: P. R. Laranjeira. Thesis title: "Adopted practices to avoid wet packages in steam sterilization: safety implications and responses of biological and chemical indicators". Tutor: prof k. Uchikawa Graziano.

Foreign languages: (Common European Framework of Reference for Languages)

- √ Italian: mother tongue
- √ English: independent user
 - Understanding: Listening B2, Reading B2,
 - Spoken interaction: B2, Production B2
 - Writing B2
- √ French: Basic user
 - Understanding: Listening A2, Reading A2,
 - Spoken interaction: A2, Production A2
 - Writing A2

Society membership:

- √ Società Italiana di Biofisica from 2002 to 2007.
- √ Società Italiana Biomateriali (SIB) from 2003 to 2012.
- √ Società Italiana Scienze Microscopiche (SISM) from 2004 to present.
- √ Health Technology Assessment International (HTAi) from 2004 to 2010.
- √ Associazione Italiana Colture cellulari (AICC) from 2007 to 2010.
- √ Società Italiana Biofisica Pura e Applicata (SIBPA) from 2009 to 2013.
- √ Associazione Microbiologi Clinici Italiani from 20015 to present
- √ European Society of Clinical Microbiology and Infectious Diseases (ESCMID) from 2008 to present.

Affiliations:

- √ INFN (Istituto Nazionale di Fisica della Materia) from 2003 to 2006.
- √ INSTM (Consorzio Interuniversitario Nazionale per la Struttura e la Tecnologia dei Materiali), section Biomaterials and Biocompatible Materials, from 2004 to 2010.
- √ University of Trento, Department of Industrial Engineering, from 2017 to 2019.
- √ Bruno Kessler Foundation, Trento, Italy, from 2019 to present.

Editorial membership

- √ 01-03-2015 to present. **Editorial board member** and **Statistical advisor** of the international peer-reviewed open-access "Journal of Oral Science and Rehabilitation". Dental Tribune Science. <http://www.dtscience.com/journal/journal-of-oral-science-rehabilitation>
- √ 05-04-2021 05-04-2023 Guest editor of the special issue "Biopolymer Coatings in Dental Application" of the journal "Polymers". IF (2021): 4.967.

https://www.mdpi.com/journal/polymers/special_issues/Biopolym_Coat_Dent_Appl

Reviewer activity:

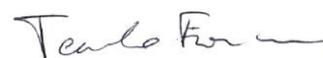
- √ Applied Surface Science
- √ American Journal of Managed Care
- √ ASME Journal of Medical Devices
- √ Central Service
- √ Computational and Mathematical Methods in Medicine
- √ Drug Development and Industrial Pharmacy
- √ Health Services Research
- √ Infection Disease & Health
- √ Microscopy and Microanalysis
- √ Frontiers in Bioengineering and Biotechnologies
- √ Infection Control and Hospital Epidemiology
- √ Inquiry
- √ Journal of Biomaterials Sciences Polymer Edition
- √ Journal of Hospital infection
- √ Journal of Medical Devices
- √ PDA Journal of Pharmaceutical Science and Technology
- √ PLOSone
- √ Scientific Reports

Bibliometric indexes

- √ **H-index:** WoS 18, Scopus 19, GScholar 24
- √ **Documents:** WoS 76, Scopus 72, GScholar 261
- √ **Total citations:** WoS 1086, Scopus 1145, GScholar 1889

Trento, July 7th, 2024

Francesco Tassarolo



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PEER REVIEWED PUBLICATIONS:

Full papers

1. F. Tessarolo, P. Ferrari, G. Nollo, A. Motta, C. Migliaresi L. Zennaro, A. Rigo, G.M. Guarrera: "Evaluation and quantification of reprocessing modification in single use devices in interventional cardiology". **Applied Surface Science** 2004, 238:341-346. DOI: 10.1016/j.apsusc.2004.05.223
2. F. Tessarolo, P. Ferrari, R. Antolini, G. Nollo: "Radiofrequency ablation on heart-equivalent phantom. Functionality testing of percutaneous single-use catheter" in **Recent Advances in Multidisciplinary Applied Physics**. A. Mendez-Vilas editor 2005: 229-334. DOI: 10.1016/B978-008044648-6.50037-9
3. S. Capri, P. Ferrari, F. Tessarolo, G.M. Guarrera, F. Fontana, G. Nollo: "Modello di calcolo della convenienza economica per l'ospedale: il caso dei cateteri cardiaci rigenerabili vs. i cateteri monouso". **Politiche Sanitarie** 2005;6:188-196.
4. I. Caola, F. Tessarolo, P. Caciagli, G.M. Guarrera: "La sterilità dei dispositivi monouso rigenerati. Studio su cateteri per cardiologia interventistica dopo riutilizzo simulato". **Microbiologia Medica** 2006;21(2):74-79.
5. F. Tessarolo, I. Caola, G. Nollo, R. Antolini, G.M. Guarrera, and P. Caciagli: "Efficiency in endotoxins removal by a reprocessing protocol for electrophysiology catheters based on hydrogen peroxide sterilization". **International Journal of Hygiene and Environmental Health** 2006;209(6):557-565. DOI: 10.1016/j.ijheh.2006.05.001
6. M. Fedel, F. Tessarolo, P. Ferrari, C. Lösche, N. Ghassemieh, G.M. Guarrera and G. Nollo: "Functional Properties and Performance of New and Reprocessed Coronary Angioplasty Balloon Catheters". **Journal of Biomedical Materials Research: Part B - Applied Biomaterials** 2006; 78(2):364-72. DOI: 10.1002/jbm.b.30496
7. F. Tessarolo, I. Caola, P. Caciagli, G.M. Guarrera, and G. Nollo: "Sterility and microbiological assessment in reusing single-use cardiac electrophysiology catheters". **Infection Control Hospital Epidemiology**. 2006; 27(12):1385-92. DOI: 10.1086/508829
8. F. Tessarolo, I. Caola, M. Fedel, P. Caciagli, G.M. Guarrera, A. Motta, and G. Nollo: "Different experimental protocols for decontamination affect cleaning of medical devices. A preliminary electron microscopy analysis". **Journal of Hospital Infection**. 2007;65(4):326-33. DOI: 10.1016/j.jhin.2006.10.015
9. M. Fedel, V. Chisté, I. Caola, F. Tessarolo. "Microbial Biofilm Imaging: ESEM vs HVSEM: Complementary information and minimization of artifacts". G.I.T. **Imaging and Microscopy**, 2007;2:44-47. ISSN: 1439-4243
10. F. Tessarolo, M. Disertori, G.M. Guarrera, S. Capri, G. Nollo: "Reprocessing single-use cardiac catheters for interventional cardiology. A cost-minimization model for estimating potential saving at departmental scale and national level". **International Journal of Public Health**, 2009; 6: 38-47.
11. E. Froner, F. Baschera, F. Tessarolo, P. Bettotti, L. Pavesi, B. Rossi, M. Scarpa, G. Mariotto, A. Rigo: "Hybrid nanostructured supports for Surface Enhanced Raman Scattering". **Applied Surface Science** 2009;255:7652-7656. DOI: 10.1016/j.apsusc.2009.04.045
12. E. Frasnelli, G. Anfora, F. Trona, F. Tessarolo, G. Vallortigara. "Morpho-functional asymmetry of the olfactory receptors of the honeybee (*Apis mellifera*)". **Behavioural Brain Research**. 2010;209:221-5. DOI: 10.1016/j.bbr.2010.01.046
13. C. Signoretto, A. Marchi, A. Bertoncelli, A. Burlacchini, F. Tessarolo, I. Caola, E. Pezzati, E. Zaura, A. Papetti, P. Lingstrom, J. Pratten, D.A. Spratt, M. Wilson, P. Canepari. "Effects of mushroom and chicory extracts on the physiology and shape of *Prevotella intermedia*, a periodontopathogenic bacterium". **Journal of Biomedicine and Biotechnology** 2011;2011:635348. DOI: 10.1155/2011/635348
14. A. Haase, E. Rigosi, E. Frasnelli, F. Trona, F. Tessarolo, C. Vinegoni, G. Anfora, G. Vallortigara, R. Antolini: "A multimodal approach for tracing lateralisation along the olfactory pathway in the honeybee through electrophysiological recordings, morpho-functional imaging, and behavioural studies. **European Biophysics Journal**. 2011; 40(11): 1247-58 .
15. S. Heslen, F. Tessarolo, R.J.Hermesen, J.P.C.M. van Dornmalen: "Current reference devices for hollow instrument loads as defined in standards are not a valid steam penetration test". **Zentralsterilisation-Central Service**. 2012;4:256-60.
16. B. Parakhonskiy, F. Tessarolo, A. Haase, R. Antolini: "Dependence of sub-micron vaterite container release properties on pH and ionic strength of the surrounding solution". **Advances in Science and Technology** 2013; 86: 81-5. DOI: 10.4028/www.scientific.net/AST.86.81

17. T.C. Lucas, F. Tassarolo, P. Veniero, I. Caola, F. Piccoli, A. Haase, G. Nollo, R. Huebner, G. Brunori: "Hemodialysis catheter thrombi: visualization and quantification of microstructures and cellular composition". **Journal of Vascular Access** 2013;14(3):257-63.
18. C. Signoretto, A. Marchi, A. Bertoncell, G. Burlacchini, A. Milli, F. Tassarolo, I. Caola, E. Pezzati, E. Zaura, A. Papetti, P. Lingström, J. Pratten, D.A. Spratt, M. Wilson, P. Caneparì. "Effects of mushroom and chicory extracts on the shape, physiology and proteome of the cariogenic bacterium *Streptococcus mutans*". **BMC Complementary and Alternative Medicine** 2013;13:117.
19. C. Tomasi, F. Tassarolo, I. Caola, J. Wennström, G. Nollo, T. Berglundh: "Morphogenesis of Peri-implant Mucosa Revisited: An Experimental Study in Humans" . **Clinical Oral Implant Research** 2014;25(9):997-1003. doi: 10.1111/clr.12223.
20. T. Cai, C. Iole, F. Tassarolo, F. Piccoli, C. D'Elia, P. Caciagli, G. Nollo, N. Mondaini, G. Nesi, G. Malossini, S. Mazzoli, R. Bartoletti: "Solidago, orthosiphon, birch and cranberry extracts can decrease microbial colonization and biofilm development in indwelling urinary catheter: a microbiologic and ultrastructural pilot study". **World Journal of Urology**, 2014;32(4):1007-14.
21. T.C. Lucas, F. Tassarolo, P. Veniero, E. D'Amato, I. Caola, G. Nollo, R. Huebner, G. Brunori. "Quantification of fibrin in blood thrombi formed in hemodialysis central venous catheters: a pilot study on 43 CVCs". **Journal of Vascular Access**, 2014;15(4):278-85.
22. T.C. Lucas, F. Tassarolo, V. Jakitsch, I. Caola, G. Brunori, G. Nollo, R. Huebner: "Blood Flow in Hemodialysis Catheters: A Numerical Simulation and Microscopic Analysis of In Vivo-Formed Fibrin". **Artificial Organs**, 2014;38(7):556-65.
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24. B.V. Parakhonskiy, Y.I. Svenskaya, A. M. Yashchenok, H.A. Fattah, O.A. Inozemtseva, F. Tassarolo, R. Antolini, D.A. Gorin: "Size controlled hydroxyapatite and calcium carbonate particles: synthesis and their application as templates for SERS platform". **Colloids and Surfaces B: Biointerfaces**. 2014;118:243-8.
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26. J.P.C.M. van Doornmalen, F. Tassarolo, K. Kopinga. "Measurements of only pressure and temperature are insufficient to monitor steam sterilization processes: a case study". **Zentralsterilisation-Central Service**, 2014;4:250-3.
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29. C. Ceresa, F. Tassarolo, I. Caola, G. Nollo, M. Cavallo, L. Fracchia: "Inhibition of *Candida albicans* adhesion on medical-grade silicone by a *Lactobacillus*-derived biosurfactant". **Journal of Applied Microbiology** 2015;118(5):1116-25. DOI: 10.1111/jam.12760
30. J.P.C.M. van Doornmalen, R.A.C. van Wezel, H.W.J.M. van Doornmalend, F. Tassarolo: "Variability of ATP amount in last rinse water of Automated Washer Disinfectors demands every load monitoring". **Journal of Hospital Infection**, 2015;91:87-92. DOI: 10.1016/j.jhin.2015.05.008
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36. A. Marinetti, F. Tassarolo, A. Cristoforetti, F. Cortese, S.W. Della Sala. "Development and testing of a hybrid synthetic-biologic phantom for the optimization of MR sequences for articular cartilage. **Jacobs Journal of Medical Diagnosis and Medical Imaging** 2017;3(1):018
37. T. Cai, F. Tassarolo, I. Caola, F. Piccoli, G. Nollo, P. Caciagli, S. Mazzoli, A. Palmieri, P. Verze, G. Malossini, V. Mirone, T. E. Bjerklund Johansen. "Prostate calcifications: A case series supporting the microbial biofilm theory". **Investigative and Clinical Urology** 2018;59:187-193. doi: 10.4111/icu.2018.59.3.187
38. C. Ceresa, F. Tassarolo, I. Caola, D. Maniglio, G. Nollo, M. Rinaldi, L. Fracchia: "Inhibition of *Candida albicans* biofilm by lipopeptide AC7 coated medical-grade silicone in combination with farnesol" **AIMS Bioengineering**, 2018;5(3): 192-208. doi: 10.3934/bioeng.2018.3.192.
39. J.P.C.M. van Doornmalen, F. Tassarolo, N. Lapanaitis, K. Henrotin, A. Inglese, H.W. Oussoren, R. Queiroz de Souza. "A survey to quantify wet loads after steam sterilization processes in healthcare facilities". **J Hosp Infect.** 2019 Sep;103(1):e105-e109. doi: 10.1016/j.jhin.2019.05.008. Epub 2019 May 24.
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45. C. Ceresa, F. Tassarolo, D. Maniglio, E. Tambone, I. Carmagnola, E. Fedeli, I. Caola, G. Nollo, V. Chiono, G. Allegrone, M. Rinaldi, L. Fracchia. "Medical-grade silicone coated with rhamnolipid R89 is effective against *Staphylococcus* spp. Biofilms". **Molecules** 2019, 24, 3843. doi:10.3390/molecules24213843
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50. C. Ceresa, M. Rinaldi, F. Tassarolo, D. Maniglio, E. Fedeli, E. Tambone, P. Caciagli, I.M. Banat, M.A. Diaz De Rienzo, L. Fracchia. "Inhibitory Effects of Lipopeptides and Glycolipids on *C. albicans*-*Staphylococcus* spp. Dual-Species Biofilms". **Front Microbiol.** 2021 Jan 13;11:545654. doi: 10.3389/fmicb.2020.545654.

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60. E. I. Konstantinidis, D. Petsani, G. Conti, A. Billis, V. Conotter, G. Chican, L.T. Llewellynn, A Rivero Rodríguez, S. Hors Fraile, A. Beristain, G. Epelde, U. Diaz-Orueta, L. Hopper, M. Kostin, R. Almeida, W. Kniejski, G. Nollo, F. Tassarolo, P.D. Bamidis. "A new approach for ageing at home: The CAPTAIN system". **MEDINFO 2019: Health and Wellbeing e-Networks for All**. Edited by Lucila Ohno-Machado, and Brigitte Sérroussi. IOS Press Amsterdam, Berlin, Tokyo, Washington DC. ISBN: 978-1-64368-003-3.
61. F. Ravelli, M. Masè, A. Cristoforetti, L. Avogaro, E. D'amato, F. Tassarolo, F. Piccoli, A. Graffigna. "Chronic Atrial Overload Contributes to the Slow Decay of Intramural Fibrosis in the Human Atrium: Assessment by High-Resolution 3D Histology". **The FASEB Journal** 2020;34(S1):09303. doi.org/10.1096/fasebj.2020.34.s1.09303
62. A. Cristoforetti, F. Tassarolo, M. Rigoni, G. Nollo. "Remote Center of Motion and Synchronized Rotation for a Motorized Surgical Table". **Proceedings of the 2020 IEEE 20th Mediterranean Electrotechnical Conference (MELECON)**, 281-286. 10.1109/MELECON48756.2020.9140481.
63. S. Chiera, A. Cristoforetti, L. Benedetti, L. Borro, L. Mazzei, G. Nollo, F. Tassarolo. "The role of filter breathability in reducing the fraction of exhaled air leaking from surgical and community face masks". **IEEE International Symposium on Medical Measurements and Applications (MeMeA)**, 2022:1-6, doi:10.1109/MeMeA54994.2022.9856516.
64. J. Dolcini, S. Gómez-Montes, R. Obregón, M. Collado, F. Barbabella, C. Chiatti, F. Tassarolo. "Accuracy of a novel Raman-based technology for the early detection of multidrug-resistant bacteria". **IEEE International Symposium on Medical Measurements and Applications (MeMeA)**, 2022, pp. 1-6, doi:10.1109/MeMeA54994.2022.9856540.

BOOK CHAPTERS AND MONOGRAPHS:

1. F. Tessarolo: "Rigenerazione di cateteri per elettrofisiologia e ablazione cardiaca: tecniche chimico fisiche per la validazione del processo - Reprocessing of electrophysiology and ablation cardiac catheters: chemical-physical techniques for process validation". **Degree Thesis in Physics**. Tutors: prof. R. Antolini, Dr. G. Nollo. June 2002, University of Trento, Italy.
2. F. Tessarolo: "The sterilization process and the modifications induced in biomaterials". **Master Thesis in Biomaterials**. Opponent: prof M.C. Tanzi. July 2005, CIRMIB, Interuniversity Research Center on Materials for Biomedical Engineering. Italy. DOI: 10.13140/RG.2.2.20385.40806
3. F. Tessarolo. Curator of the "Atti del I FORUM ITALIANO PER LA VALUTAZIONE DELLE TECNOLOGIE SANITARIE", Trento, 19-21 January 2006. Volume 1, 2006. ISSN: 1828-5902, ISBN: 978-88-8443-134- 9.
4. F. Tessarolo: "Reuse of single-use medical devices for interventional cardiology". **PhD Thesis in Materials Engineering**. Tutors: Prof. C. Migliaresi, Dr G. Nollo. Academic year 2004-2005, dissertation on March 2006, Doctoral Thesis n°11/2006. Edited by University of Trento, Italy. ISBN 978-88-8443-138-7 DOI: 10.13140/RG.2.2.23111.70560
5. **"Re-use of single use medical devices - Il riutilizzo dei dispositivi medici in cardiologia interventistica. SICC-SIX project results overview. Part I"**. Eds.: Caola I, Capri S, Caciagli P, Disertori M, Fedel M, Guarrera GM, Izzo I, Nollo G, Tessarolo F. APSS and University of Trento Editors, 2006. ISBN 88-8443-122-0.
6. F. Tessarolo. Curator of the "Atti del II FORUM ITALIANO PER LA VALUTAZIONE DELLE TECNOLOGIE SANITARIE", Trento, 25-27 January 2007. Volume 2, 2007. ISSN: 1828-5902, ISBN: 978-88-8443-184- 4.
7. F. Tessarolo and G. Nollo: "Sterilization of biomedical materials". Invited chapter in the **Encyclopedia of Biomaterials and Biomedical Engineering, II ed. 2008**. Gary E. Wnek and Gary L. Bowlin Eds. Edited by Taylor & Francis Group, New York. pp 2501-2510 DOI: 10.3109/9781420078039.238 ISBN 9781420078022
8. F. Tessarolo, I. Caola and G. Nollo: "Critical issues in reprocessing single-use medical devices for interventional cardiology". Invited chapter in the book **"Biomedical Engineering, Trends, Researches and Technologies"**. January 2011. Dr. Sylwia Olsztynska and Malgorzata Anna Komorowska ed. Edited by InTech Open Education and Publishing, Vienna. pp.: 619-644. ISBN 978-953-307-514-3
9. S. Anzivino, G. Nollo, V. Conotter, G. M. A. Guandalini, G. Conti and F. Tessarolo. "Designing Multidimensional Assessment of ICTs for Elderly People: The UNCAP Clinical Study Protocol" in **"Lecture Notes in Electrical Engineering"** Volume 544, 2018, Pages 47-69" Springer 2019. A. Leone, A. Caroppo, G. Rescio, G. Diraco, P. Siciliano Editors DOI 978-3-030-05921-7_5, © 2019

TUTORED DEGREE THESES:

1. V. Chistè: "Studio della formazione di biofilm microbico in vitro: sviluppo di un modello sperimentale". Degree Thesis in Tecniche di Laboratorio Biomedico. Tutors: I. Caola, M. Fedel, F. Tessarolo. University of Verona, November 2005.
2. P. Lutteri: "Caratterizzazione dimensionale e morfologica del particolato atmosferico mediante microscopia elettronica ed analisi dell'immagine". Specialist Degree Thesis in Fisica e Tecnologie Biomediche. Tutors: R. Antolini, G. Nollo, F. Tessarolo. University of Trento, July 2007.
3. F. Piccoli: "La preparazione del campione per microscopia elettronica a scansione: applicazione nello studio dell'impianto dentale". Degree Thesis in Tecniche di Laboratorio Biomedico. Tutors: I. Caola, F. Tessarolo. University of Verona, November 2007.
4. C. Valentini: "Sviluppo e applicazione di tecniche microbiologiche, istologiche e ultrastrutturali per la caratterizzazione dei fenomeni responsabili dell'insuccesso artroprotesico". Degree Thesis in Tecniche di Laboratorio Biomedico. Tutors: I. Caola, M. Barbareschi, F. Tessarolo. University of Verona, October 2008.
5. G. Miori: "Isolamento e caratterizzazione microscopica di frammenti da usura nei tessuti perimplantari". Degree Thesis in Physics. Tutors: R. Antolini, G. Nollo, F. Tessarolo. University of Trento, November 2008.
6. C. Caldini: "Visualizzazione di lesioni cutanee in microscopia ottica confocale e a due fotoni". Degree Thesis in Physics. Tutors: R. Antolini, A. Haase, F. Tessarolo. University of Trento, October 2008.
7. M. Lorenzato: "Modelli sperimentali per lo studio dello sviluppo di biofilm microbico su cateteri venosi centrali". Degree Thesis in Tecniche di Laboratorio Biomedico. Tutors: I. Caola, F. Tessarolo. University of Verona, November 2009.
8. F. Viliotti: "Effetto dei vari tipi di catetere vescicale sulla formazione precoce del biofilm". Degree Thesis in Scienze Infermieristiche. Tutors: Dr. A. Brugnolli, Dr. F. Tessarolo. University of Verona. November 2011.
9. G. Miori: "Analisi radiografiche di rivestimenti per proesi ortopediche plimeriche". Specialist Degree Thesis in Physics. Tutors: R. Antolini, F. Tessarolo, A. Valentini. University of Trento, March 2013.
10. F. Morat: "Analisi della composizione del trombo coronarico nell'infarto miocardico acuto: aspetti macro-microscopici e variabili cliniche". Degree Thesis in Medicine and Surgery. Tutors: C. Vassanelli, R. Bonmassari, F. Tessarolo. University of Verona, July 2013.
11. M. Leonardi: "Il biofilm su catetere urinario. Analisi con tecniche microbiologiche e microstrutturali". Degree Thesis in Tecniche di Laboratorio Biomedico. Tutor: F. Tessarolo. University of Verona, October 2013.
12. E. Bonomi: "Il trombo coronarico nell'infarto miocardico acuto: analisi morfologico-composizionale multiscala". Master degree Thesis in Bioinformatics and Medical Biotechnologies. Tutors: G. Berton, F. Tessarolo, G. Nollo. University of Verona, March 2014.
13. D. Del Dot: "Valutazione comparativa del profilo di efficacia e sicurezza attribuibile (effectiveness) dei cateteri venosi centrali medicati con benzalconio cloruro e argento iontoforetico". Master degree Thesis in Scienze delle professioni sanitarie della prevenzione. Tutors: I. Caola, F. Tessarolo. University of Firenze, June 2014.
14. N. Gaidau: "Infezioni correlate a catetere venoso centrale: risultati preliminari di uno studio per la valutazione di efficacia di due tipi di cateteri medicati". Degree Thesis in Medicine and Surgery. Bioinformatics and Medical Biotechnologies. Tutors: F. Donato, F. Tessarolo. University of Brescia, July 2014.
15. S. Gherardi, G.M. Mariani: "Valutazione delle tecniche chirurgiche per il trattamento delle condropatie di ginocchio nell'APSS di Trento". Master Thesis on Evidence Based Practice and Health Technology Assessment. Tutors: G. Nollo, F. Tessarolo. University of Verona, March 2015.
16. E. Bettio: "New strategies for antibiofilm coating of dental implants: bioconjugation of silk sericin to titanium". Degree Thesis in Dentistry and dental prosthetics. Tutors: E. Bressan, P. Ghensi, F. Tessarolo University of Padova, July, 2018.

TUTORED/ADVISED PhD THESES:

1. T.C. Lucas. Sandwich doctorate Italy-Brasil in Mechanical Engineering, Research track: Bioengineering. Federal University of Minas Gerais (UFMG): 2011-2014. Tutor R. Huebner. Advisor for the one year in Italy: dr. F. Tassarolo.
2. P. Ghensi: "Characterization of biological and microbiological properties of dental implant surfaces and their relation with peri-implant diseases" PhD thesis in Biomolecular Sciences, University of Trento. Dissertation on October 14, 2019. Tutor: Prof. N. Segata, Advisor dr. F. Tassarolo.
3. B. E. Bouwman: "Safe Surgery: evaluation of the quality of raw cotton fabric to guarantee a sterile barrier system in the intraoperative period" PhD thesis at the Postgraduate Program in Nursing, Faculty of Nursing, Federal University of Goiás (Universidade Federal de Goiás - UFG). Tutor: prof. Anaclara Ferreira Veiga Tipple, Asvisor of the study period at the University of Trento: Dr. F. Tassarolo.
4. P. R. Laranjeira: "Adopted practices to avoid wet packages in steam sterilization: safety implications and responses of biological and chemical indicators". Phd thesis at the Nursing School, Universidade de São Paulo, São Paulo, Brazil 2019. Tutor: prof k. Uchikawa Graziano. Opponent: F. Tassarolo.
5. S. Tarter: "Electron Microscopy Methodologies for Bio-MEDical issues". PhD candidate at the Doctoral School in Materials, Mechatronics and Systems Engineering of the Department of Industrial Engineering, University of Trento. Tutors: prof. S. Gialanella, prof. G. Nollo, dr. F. Tassarolo. PhD started on November 2021.

INVITED LECTURES:

1. F. Tassarolo: "Rigenerazione di cateteri per elettrofisiologia cardiaca: tecniche fisico chimiche per la valutazione del processo". Sicc-Six seminars, Villa Tambosi, Villazzano, Trento, Italy. August 28, 2002.
2. F. Tassarolo, I. Caola: "Le verifiche microbiologiche su dispositivi rigenerati: il caso dei cateteri per Elettrofisiologia cardiaca". Sicc-Six seminars, Oncology Department, Azienda Provinciale per i Servizi Sanitari, Trento, Italy. June 4, 2004.
3. F. Tassarolo, I. Caola: "Riutilizzo dei dispositivi monouso per la cardiologia interventistica - Condizionamento presterilizzazione: valutazione delle procedure di decontaminazione e pulizia - Quantificazione delle endotossine". Sicc-Six seminars, February 4, 2005 S. Chiara Hospital, Azienda Provinciale per i Servizi Sanitari, Trento, Italy. February 4, 2005.
4. F. Tassarolo. "Reuse of single-use medical devices for interventional cardiology: scientific evidence from Italy". Inaugural European Forum on Medical Device Reprocessing, Tours, France. April 11, 2006.
5. I. Caola, F. Tassarolo, M Fedel. "La pulizia di frese per odontoiatria: valutazione di protocolli differenti mediante microscopia elettronica". Corso di formazione sul campo: Pulizia e disinfezione di frese odontoiatriche e strumenti endodontici: elaborazione e applicazione di un protocollo condiviso. Azienda Provinciale per i Servizi Sanitari, Trento, Italy. October 27, 2006.
6. F. Tassarolo. "Ultrasuoni. Principi di funzionamento e parametri operativi per l'ottimizzazione della pulizia dei dispositivi medici". Corso di formazione sul campo: Pulizia e disinfezione di frese odontoiatriche e strumenti endodontici: elaborazione e applicazione di un protocollo condiviso. Azienda Provinciale per i Servizi Sanitari, Trento, Italy. March 28, 2007.
7. F. Tassarolo, I. Caola. "L'implementazione di un protocollo condiviso per la pulizia di frese e files per odontoiatria". Corso di formazione sul campo: Pulizia e disinfezione di frese odontoiatriche e strumenti endodontici: elaborazione e applicazione di un protocollo condiviso. Azienda Provinciale per i Servizi Sanitari, Trento, Italy. November 14, 2007.
8. F. Tassarolo, I. Caola. "Pyrogenic risk in reusing suds: efficiency of plasma sterilization in removing endotoxins from electrophysiology catheters". 10th World Congress of Sterilization. Creete, Grece. October 7-10, 2009.
9. I. Caola, M. Coser, F. Leonardi, P. Caciagli, G Nollo, F. Tassarolo. "Cleaning efficiency of pre-sterilization protocols for reusable dental burs". 10th World Congress of Sterilization. Creete, Grece. October 7-10, 2009.
10. F. Tassarolo: "Sterilizzazione di materiali per uso biomedico - Sterilization of biomedical materials". Tecnologie del vuoto e biomateriali: ricerca, applicazioni, sviluppi. 2nd International Exhibition of Advanced Solutions and Technologies for Research, Science, and Industry. Milan, Fair Centre, Italy. November 25-27, 2009.
11. F. Tassarolo: "Riutilizzo di dispositivi monouso in cardiologia interventistica: aspetti critici e potenzialità". Aspetti tecnici e organizzativi nella gestione della centrale e del processo di sterilizzazione. Rimini, Italy. March 24-25, 2010.
12. F. Tassarolo: "Dalla sperimentazione alla formazione sul campo: un processo per l'introduzione di un protocollo di pulizia di frese e file in odontoiatria". XI Congresso nazionale Associazione Nazionale Operatori della Sterilizzazione. Lecce, Italy. June 17-19, 2010.
13. F. Tassarolo: "Il contributo della microscopia elettronica per il controllo di qualità dei dispositivi in ospedale". XI Congresso nazionale Associazione Nazionale Operatori della Sterilizzazione. Lecce, Italy. June 17-19, 2010.
14. F. Tassarolo: "Critical issues in reprocessing single-use medical devices for interventional cardiology". 7th National Sterilization Congress. Antalya, Turkey. March 16-20, 2011.
15. F. Tassarolo: "Physics of cartilage". Ortomeeting: 4th Convegno di aggiornamento ortopedico: Biotecnologie nelle lesioni ostocartilaginee del ginocchio, Biotecnologie nella chirurgia della spalla. Riva del Garda (TN), Italy. October 14, 2011.
16. F. Tassarolo: "Critical issues in reprocessing single-use medical devices for interventional cardiology". Causa International Symposium: "Quality of reprocessing medical devices". Eindhoven, The Netherlands. April 24, 2012
17. F. Tassarolo: "Reuse of single use medical devices. Towards an European Harmonization?" WFHSS and JSMI Conference, World Congress on Sterilization 2012. Osaka, Japan. Novembre 21-24, 2012.

18. F. Tessarolo: "Interaction between human tissue and materials for biomedical applications: clinical issues and possible answers". Invited seminar at the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University, Kyoto, Japan. Novembre 26, 2012.
19. F. Tessarolo: "Current reference devices for hollow instrument loads as defined in standards are not a valid steam penetration test". Updates on Sterilization, 3M Round table. Verona, Torino and Bologna, Italy. February 19-22, 2013.
20. F. Tessarolo: "Reprocessing of Single-Use Medical Devices for Interventional Cardiology". MEDTEC Europe 2013 Conference, Stuttgart, Germany. February 26-28th 2013.
21. F. Tessarolo: "Current reference devices for hollow instrument loads as defined in standards are not a valid steam penetration test". Updates on Sterilization, 3M Round table. Ancona, Roma and Catania, Italy. June 4-6, 2013.
22. F. Tessarolo: "Interazioni tra tessuto e materiali ad uso biomedico: esigenze cliniche e possibili risposte". RC Trento. Trento, Italy. September 2nd, 2013.
23. F. Tessarolo, I. Caola, F. Piccoli, P. Caciagli, G. Nollo. "The role of scanning electron microscopy in healthcare". 3rd Joint CNR-FBK-UNITN Workshop on Electron-Matter Interaction as a Tool for Materials Analysis: Theory and Experiment. June 16th 2015, Trento, Italy.
24. F. Tessarolo. "Valutazione e controllo delle acque di risciacquo delle lavastumenti". 3M Sterilization day 2015. 30 June 2015. Milano, Italy.
25. F. Tessarolo, M Fedel: "Progetto Eviva: sintesi dei risultati di progetto". Consensus conference: Diagnosi e trattamento delle lesioni condrali. October 7th 2015. Trento, Italy.
26. F. Tessarolo, M Fedel: "Correlazione tra imaging e quadri anatomopatologici". Il danno condrale del ginocchio: dalla riparazione alla sostituzione. November 14th 2015. Cavalese, Italy.
27. F. Tessarolo, L. Valentinotti. "Apparecchi di lavaggio e disinfezione automatica dei dispositivi medici: quantificazione dell'ATP nell'acqua di risciacquo del ciclo di lavaggio". Sterilization Summit 2016. June 7, 2016. Milano, Italy.
28. F. Tessarolo. "Reprocessing single-use catheters for interventional cardiology. Is it safe and effective?" 4th Congreso Argentino de Esterilizacion y Desinfeccion Hospitalaria, FUDESA-XXXVI Jornada de Esterilizacion (4th Argentinian Congress of Sterilization and Hospital Disinfection). October 13-14, 2016. Cordoba, Argentina.
29. F. Tessarolo "The added value of measuring ATP in the last rinse water of automated washer-disinfectors". WFHSS 2016 17th World Sterilization Congress. October 26-29, 2016. Brisbane, Australia.
30. L. Valentinotti, F. Tessarolo. "Quantificazione dell'AdesinTriFosfato (ATP) nell'ultima acqua di risciacquo: potenzialità per il controllo di processo negli apparecchi automatici di lavaggio e disinfezione dei dispositivi medici". XIV Congresso nazionale Associazione Italiana Operatori Sanitaria Addetti alla Sterilizzazione. Roma, Italy. October 19-21, 2017.
31. F. Tessarolo. "La quantificazione del ATP nell'ultima acqua di risciacquo degli apparecchi automatici per lavaggio e disinfezione: potenzialità per il monitoraggio del processo". Workshop on "Lavaggio e disinfezione dei dispositivi medici riutilizzabili: nuove strategie per il monitoraggio dell'efficacia delle procedure nel ricondizionamento dello strumentario chirurgico e degli endoscopi flessibili". Trento, Italy. September 27, 2018."
32. F. Tessarolo. "The contribution of scanning electron microscopy in the quality control of medical devices" International Symposium of the Centro de Estudos de Enfermagem e Nutrição. Goiania, Brazil. April 28, 2018.
33. F. Tessarolo. "Quantification of ATP in last rinse water of automated washer disinfectors as a tool for monitoring the process" International Symposium of the Centro de Estudos de Enfermagem e Nutrição. Goiania, Brazil. April 28, 2018.
34. F. Tessarolo. "Surface characteristics of single use electrosurgical pencils after clinical reuse and in hospital reprocessing" International Symposium of the Centro de Estudos de Enfermagem e Nutrição. Goiania, Brazil. April 28, 2018.
35. F. Tessarolo. "Reprocessing of single-use medical devices" Invited lecture at the postgraduate course, "Anti-infectious measures: Antisepsis, disinfection and sterilization", Faculty of Nursing, Federal University of Goiás. Goiania, Brazil. May 2, 2018.

36. F. Tassarolo. "Endotoxin approach in the reprocessing of reusable medical devices" Invited lecture at the postgraduate course, 'Anti-infectious measures: Antisepsis, disinfection and sterilization', Faculty of Nursing, Federal University of Goiás. Goiania, Brazil. May 3, 2018.
37. F. Tassarolo. "Surface characteristics of single-use electrosurgical pencils after clinical reuse and in-hospital reprocessing" Invited seminar at the Nursing School, University of São Paulo. São Paulo, Brazil. May 4, 2018.
38. F. Tassarolo. "Quantification of ATP in last rinse water of automated washer disinfectors as a tool for monitoring the process" Invited seminar at the Nursing School, University of São Paulo. São Paulo, Brazil. May 4, 2018.
39. F. Tassarolo. "Cleaning and disinfection of endodontic files and dental burs" Invited seminar at the Nursing School, University of São Paulo. São Paulo, Brazil. May 4, 2018.
40. F. Tassarolo. "The contribution of scanning electron microscopy in the quality control of medical devices" Invited seminar at the Nursing School, University of São Paulo. São Paulo, Brazil. May 4, 2018.
41. F. Tassarolo. "Quantificazione dell'ATP nell'acqua di risciacquo: un nuovo strumento per il monitoraggio del processo di lavaggio dello strumentario chirurgico". Sterilization summit 2018. Milano, Italy. June 20, 2018.
42. F. Tassarolo, E. Bonomi, M. Rigoni, G. Nollo, L. Valentinotti, L. Fabbri, F. Piccoli, J.P.C.M. van Doornmalen Gomez Hoyos: "La quantificazione dell'ATP nell'ultima acqua di risciacquo degli apparecchi automatici per lavaggio e disinfezione: potenzialità per il monitoraggio del processo". Invited lecture at the workshop: "Lavaggio e disinfezione dei dispositivi medici riutilizzabili: nuove strategie per il monitoraggio dell'efficacia delle procedure nel ricondizionamento dello strumentario chirurgico e degli endoscopi flessibili". Trento, Italy. September 27, 2018.
43. F. Tassarolo: "Tecnologie per il ricondizionamento dei Dispositivi Medici. Garanzie di Sicurezza ed Efficacia". Invited seminar at the Department of Industrial Engineering of the University of Trento. Trento, Italy. March 13, 2019.
44. F. Tassarolo: "Reuse of SUDs in Europe according to the MDR". 11th International Sterilization and Disinfection Congress. November 27-December 1, 2019. Antalya, Turkey.
45. F. Tassarolo: "Quantification of ATP in last rinse water of automated washer disinfectors as a tool for monitoring the process". 11th International Sterilization and Disinfection Congress. November 27-December 1, 2019. Antalya, Turkey.
46. F. Tassarolo: "Regolamento europeo 745 del 2017 sui DM. Quando la responsabilità cessa di essere in capo al fabbricante? Sterilization Summit. September 8, 2020, Milano. Italy.
47. F. Tassarolo: "Electron Microscopy in Biomedical Research". Perspectives in Electron Microscopy II. October 1st, 2021. Trento, Italy.
48. F. Tassarolo: "Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis". 12th International Sterilization and Disinfection Congress. December 9-12, 2021. Antalya, Turkey.
49. F. Tassarolo: "Are reusable cotton surgical gowns and drapes the same after repeated clinical use and reprocessing?". 12th International Sterilization and Disinfection Congress. December 9-12, 2021. Antalya, Turkey.
50. F. Tassarolo: "Biofilm microbico e dispositivi medici. Evidenze dalla ricerca scientifica". V Simposio Nazionale: La sterilizzazione dei dispositivi medici riutilizzabili. Un anello nella sicurezza delle cure. May 7, 2022. Bologna Italy.
51. F. Tassarolo: "E' possibile monitorare in tempo reale la quantità di vapore presente nei dispositivi cannulati durante il processo di sterilizzazione?" XV Congresso Nazionale AIOS, June -11, 2022. Bari, Italy.
52. F. Tassarolo, M. Masè, A. Visonà, J.P.C.M. van Doornmalen Gomez Hoyos. "Monitoring steam penetration in channelled instruments: an evidence-based worst-case for practical situations". 23rd World Congress of Sterilization Sciences. November 16-19, 2022. Barcelona, Spain.

CONGRESS PRESENTATIONS:

1. F. Tassarolo, P. Ferrari, G. Nollo, R. Antolini: "Ablazione cardiaca in radiofrequenza mediante catetere percutaneo su fantoccio tessuto equivalente: verifica di funzionalità dei dispositivi". Scuola Nazionale di Biofisica X ciclo, "Biofisica delle radiazioni". Bressanone, Italy. September 10-13, 2002 (poster).
2. F. Tassarolo, P. Ferrari, G. Nollo, R. Antolini, A. Motta, L. Zennaro: "Valutazione di modifiche indotte dalla rigenerazione di dispositivi monouso in cardiologia interventistica". Convegno GIB-VIII Giornata SIB, Bologna, Italy. November 8-9, 2002 (lecture).
3. F. Tassarolo, P. Ferrari, G. Nollo, A. Motta, C. Migliaresi L. Zennaro, A. Rigo G.M. Guarrera: "Evaluation and quantification of reprocessing modification in single use devices in interventional cardiology". First International Meeting on Applied Physics, APHYS 2003, Badajoz, Spain. October 13-18, 2003 (poster).
4. F. Tassarolo, P. Ferrari, R. Antolini, G. Nollo: "Radiofrequency ablation on heart-equivalent phantom. Functionality testing of percutaneous single-use catheter". First International Meeting on Applied Physics, APHYS 2003, Badajoz, Spain. October 13-18, 2003 (lecture).
5. F. Tassarolo, M. Fedel, P. Ferrari, I. Caola, G.M. Guarrera, C. Favaretti, C. Migliaresi, G. Nollo: "Reuse of single use devices for interventional cardiology: a HCTA approach". Medicon and Health Telematics 2004, Naples, Italy. August 1-4, 2004 (lecture).
6. F. Tassarolo, I. Caola, M. Fedel, P. Ferrari, P. Caciagli: "Effetti dell'utilizzo di cloroderivati per la decontaminazione dei dispositivi medici". Congresso Nazionale Biomateriali, Pisa, Italy. October 11-13, 2004 (lecture).
7. F. Tassarolo, P. Ferrari, G. Nollo, R. Antolini, G.M. Guarrera, C. Favaretti: "Re-use of single-use medical devices for interventional cardiology: technical, legal, and economic aspects". CleanMed Europe, The International Healthcare Congress for Sustainable Products and Practices, Vienna, Austria. October 6-8, 2004. (poster).
8. F. Tassarolo, I. Caola, M. Fedel, P. Ferrari, A. Motta, P. Caciagli G.M. Guarrera, G. Nollo: "Effectiveness of pre-sterilization conditioning protocols for re-usable intravascular catheters. Surface and microbiology analysis". ISAB2, International Symposium on Advanced Biomaterials and Biomechanics. Montreal, Canada. April 3-6, 2005 (lecture).
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 42. F. Tassarolo, E. Bressan, C. Tomasi, F. Piccoli, G. Nollo, I. Caola. "A scanning electron microscopy based quantitative method to evaluate plaque accumulation in patients undergoing different oral home care protocols". ECCMID, 19th European Congress of Clinical Microbiology and Infectious Diseases. Helsinki, Finland. May 16-19, 2009. (Poster)
 43. A. Bandera, F. Valente, I. Caola, P. Caciagli, F. Tassarolo, G. Nollo, G. Brunori. "Early mechanical failure of a tunneled catheter (tCVC) for haemodialysis: a microstructural investigation by Scanning Electron Microscopy". 6th International Congress on Vascular Access. Rome, Italy. April 20-22, 2009. (Poster)
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 48. F. Tassarolo, I. Caola, F. Piccoli, P. Dorigotti, E. Demattè, M. Molinari, M. Malavolta, M. Barbareschi, P. Caciagli, G. Nollo. "Multidisciplinary Approach for In-deep Assessment of Joint Prosthesis Failure". 31st Annual International Conference of the IEE Engineering in Medicine and Biology Society. Minneapolis (MN), USA. September 2-6, 2009. (Lecture)
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51. M. Fedel, I. Caola, F. Leonardi, F. Tessarolo, P. Caciagli. "Ultrasonics in pre-sterilization cleaning of maxillofacial surgery drills: a preliminary evaluation of effectiveness by electron microscopy". 10th World Congress of Sterilization. Creete, Grece. October 7-10, 2009. (Poster)
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57. M. Lorenzato, I. Caola, F. Tessarolo, F. Piccoli, G. Nollo, P. Caciagli: "Micro-morphological features for the characterization of in-vitro microbial biofilm development on central venous catheters". ECCMID, 20th European Congress of Clinical Microbiology and Infectious Diseases. Wien, Austria. April 9-13, 2010. (Poster)
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63. F. Tessarolo, R. Tatti, M. Molinari, P. Dorigotti, R. Antolini, G. Nollo: "Caratterizzazione istochimica del tessuto osteocondrale umano: confronto tra cartilagine sana, scaffold seminati con condrociti, e tessuti terapizzati con tecnica MACI". 83° Convegno nazionale della Società Italiana di Biologia Sperimentale. Genova, Italy. October 21-23, 2010. (Poster)
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68. I. Caola, F. Tassarolo, M. Lorenzato, F. Piccoli, M. Dellantonio, E. Geat, G. Nollo, P. Caciagli: "Caratterizzazione del biofilm di *S. epidermidis* su CVC in microscopia laser multifotone e microscopia elettronica a scansione". Congresso Nazionale AMCLI 2010. Rimini, Italy. October 20-22, 2010. (Poster).
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71. F. Tassarolo, I. Caola, M. Lorenzato, F. Piccoli, G. Nollo, P. Caciagli: "Visualization of microbial biofilm on explanted central venous catheters by two-photon laser scanning microscopy". ECCMID, 21th European Congress of Clinical Microbiology and Infectious Diseases. Milano, Italy. May 7-10, 2011. (Poster).
72. F. Tassarolo, E. Bressan, F. Piccoli, G. Nollo, I. Caola, C. Tomasi: "Quantifying in vivo plaque formation by scanning electron microscopy". Eurobiofilm 2011, Second European Congress on Microbial Biofilms-Basics and Clinical Aspects. Copenhagen, Denmark. July 6-8, 2011 (Poster).
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81. B. Parakhonskiy, C. Foss, E. Carletti, A. Haase, F. Tassarolo, F. Piccoli, I. Caola, A. Motta, C. Migliaresi, R. Antolini: "Biocompatible calcium carbonate particles: toward drug-delivery applications". NANOCON 2012, 4th International Conference. Brno, Czech Republic. October 23-25, 2012. (Lecture)
82. I. Caola, F. Tassarolo, T. Cai, F. Piccoli, G. Malossini, G. Nollo, P. Caciagli: "Biofilm microbico su cateteri vescicali rimossi da paziente: valutazioni in microscopia elettronica". Congresso Nazionale AMCLI 2012. Rimini, Italy. November 13-16, 2012. (Poster).
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 87. T. Cai, I. Caola, F. Tassarolo, F. Piccoli, G. Nollo, P. Caciagli, V. Cutrupi, G. Malossini, R. Bartoletti: "Morphological features of biofilm in urinary catheters: a preliminary study". EAU 2013, Congress of the European Association of Urology, Milano, Italy. March 15-19, 2013. (Poster).
 88. I. Caola, F. Tassarolo, F. Piccoli, P. Dorigotti, G. Nollo, M. Gaino, P. Lanzafame, P. Caciagli: "Infections associated with fracture fixation devices: usefulness of integrating information from different cultural methods". ECCMID, 23rd European Congress of Clinical Microbiology and Infectious Diseases. Berlin, Germany. April 27-30, 2013. (Poster).
 89. L. Avogaro, M. Grasso, E. D'Amato, F. Tassarolo, S. Sinelli, M. Masè, A. Graffigna, M.A. Denti, F. Ravelli. "Comparison of different methods to extract RNA from cardiac tissue for miRNA profiling by qRT-PCR". 9th European Biophysics Congress. Lisboa, Portugal, July 13-17 2013. (Poster).
 90. C. Ceresa, F. Tassarolo, I. Caola, G. Nollo, M. Cavallo, L. Fracchia. "Precoating of medical-grade silicone with Lactobacillus biosurfactant inhibits biofilm formation of *Candida albicans*". EUROBIOFILMS 2013 - Third European Congress on Microbial Biofilms. Ghent, Belgium. September 9 - 12 2013. (Poster).
 91. C. Ceresa, F. Tassarolo, I. Caola, F. Piccoli, M. Cavallo, G. Allegrone, L. Fracchia: "Bacterial biosurfactants inhibit *Candida albicans* biofilm formation on medical-grade silicone". European Conference on Smart & Functional Coatings. Torino, Italy. September 26-27, 2013. (Lecture).
 92. T. Cai, D. Tiscione, I. Caola, F. Tassarolo, N. Mondaini, F. Meacci, G. Malossini, P. Lanzafame, S. Mazzoli, R. Bartoletti. "Prostate calcifications and LUTS: the potential role of bacterial biofilm and prostate inflammation". 86th National congress of the Italian Society of Urology. Riccione, Italy. October 5-8, 2013. (Poster).
 93. F. Tassarolo, G. Miori, N. Pace, G. Zappini, G. Nollo, M. Recla, A. Valentini. "X-ray visualization of polymer-based implants with osseointegrating coatings". 8th Combined Meeting of Orthopaedic Research Societies. Venice, Italy. October 13-16, 2013. (Poster).
 94. G. Miori, N. Pace, F. Tassarolo, G. Zappini, G. Nollo, M. Recla, A. Valentini. "Evaluating radiographic characteristics of polymeric implant with osseointegrative coatings by a tissue-equivalent phantom". 8th National Congress of the Italian Association of Medical Physics. Torino, Italy. November 16-19, 2013. (Poster).
 95. T. Cai, D. Tiscione, I. Caola, F. Tassarolo, N. Mondaini, F. Meacci, G. Malossini, P. Lanzafame, S. Mazzoli, R. Bartoletti. "Prostate calcifications and LUTS: the potential role of bacterial biofilm and prostate inflammation". 29th Annual European Urology Congress. Stockholm, Sweden. April 11-15, 2014. (Poster)
 96. Caola, F. Tassarolo, M. Leonardi, T. Cai, F. Piccoli, G. Nollo, G. Malossini, R. Bartoletti, P. Caciagli. "Assessing composition and micromorphology of biofilm in urinary catheters". ECCMID, 24th European Congress of Clinical Microbiology and Infectious Diseases. Barcelona, Spain. May 10-13, 2014. (ePoster).
 97. F. Tassarolo, M. Fedel, R. Tatti, E. Bonomi, I. Caola, M. Molinari, P. Dorigotti, G. Nollo. "Histochemical evaluation of second-look osteochondral biopsies: symptomatic vs asymptomatic MACI-treated patients". 2014 eCM Congress XV: Cartilage & Disc: Repair and Regeneration. Davos, Switzerland June 16-18, 2014. (Poster)
 98. F. Tassarolo, C. Tomasi, F. Piccoli, I. Caola, P. Caciagli, G. Nollo. "Studying Interaction between Oral Mucosa and Titanium by SEM in Humans". ESB 2014 - 26th European Conference on Biomaterials. Liverpool, UK. August 31-September 3, 2014. (Lecture)
 99. F. Tassarolo, E. Bonomi, F. Piccoli, F. Morat, I. Caola, P. Caciagli, R. Bonmassari, G. Nollo. "A multiscale approach to study the composition of coronary thrombus in acute myocardial infarction". 18th International Microscopy Congress. Prague, Czech Republic. 7-12 September, 2014. (Lecture)

100. F. Tassarolo, C. Tomasi, F. Piccoli, I. Caola, G. Nollo. "A SEM characterization of the perimplant oral mucosa adhering to dental abutments". 18th International Microscopy Congress. Prague, Czech Republic. September 7-12, 2014. (Poster)
101. A. Caciagli, F. Tassarolo, F. Piccoli, I. Caola, G. Nollo, P. Caciagli. "Two customized low-cost systems for STEM in SEM microscopy". 18th International Microscopy Congress. Prague, Czech Republic. September 7-12, 2014. (Poster).
102. I. Caola, F. Tassarolo, M. Sarti, M. Conte, E. Zamparini, P. Viale, C.L. Romanò, L. Drago. "Prosthetic joint and fracture-fixation device infections: a guidance diagnostic protocol from the Italian Association of Clinical Microbiologists (AMCLI)". 33rd annual meeting of the European Bone and Joint Infection Society (EBJIS). Utrecht, the Netherlands. September 11-13, 2014. (Poster)
103. C. Ceresa, F. Tassarolo, I. Caola, D. Maniglio, Nollo G., L. Fracchia. "In vitro activity of lipopeptide biosurfactant AC7 and Farnesol on *Candida albicans* biofilm formation on silicone elastomer". Biofilm-based healthcare-associated infections: from microbiology to clinics. Meeting of the ESCMID study group for Biofilms. Rome, Italy. October 9-10, 2014. (Poster).
104. L. Avogaro, M. Masè, M. Grasso, E. D'Amato, A. Cristoforetti, F. Tassarolo, I. Caola, F. Piccoli, S. Sinelli, A. Graffigna, M. A. Denti, F. Ravelli. "Structural substrate of atrial fibrillation investigated by miRNAs profiling and histological assessment in cardiac surgery patients". SIBBM Italian Society of Biophysics and Molecular Biology 2014. Trento, Italy. June 11-13, 2014 (Poster).
105. F. Tassarolo, E. Bonomi, F. Piccoli, F. Morat, M. Rigoni, I. Caola, M. Barbareschi, P. Caciagli, S. Muraglia, R. Bonmassari, G. Nollo. "Assessing composition of coronary thrombus in STEMI patients. A multiscale approach to characterize samples obtained by catheter aspiration". CARDIOTECHNIX 2014 - 2nd International Congress on Cardiovascular Technologies. Rome, Italy. October 25-26, 2014. (Lecture).
106. N. Pace, F. Tassarolo, G. Miori, G. Zappini, G. Nollo, M. Recla, A. Valentini. "Quantifying radiographic contrast of polymeric orthopedic implants with osseointegrative coating by a tissue-equivalent phantom". Physics&Medicine. Towards a future of integration. Trento, Italy. November 6-8, 2014. (Poster)
107. F. Tassarolo, F. Piccoli, E. Bonomi, L. Massenzana, G. Nollo, P. Caciagli, I. Caola. "Does the method for removing biofilm from implantable materials matter? An in-vitro study comparing four different protocols". ECCMID, 25th European Congress of Clinical Microbiology and Infectious Diseases, 25-28 April, 2015. Copenhagen, Denmark (poster)
108. C. Tomasi, M. Donati, F. Tassarolo, J.L. Wennstrom, G. Nollo, T. Berglundh. "Healing of peri-implant mucosa at titanium abutments with different surface characteristics in humans". EuroPerio8, 3-6 June, 2015. London, UK. (poster)
109. I. Caola, F. Tassarolo, L. Drago. "Microbiological diagnostic protocol for prosthetic joint and fracture fixation devices infections from the Italian Association of Clinical Microbiologists (AMCLI)". Milano Biofilm Meeting 2015 - Implantable and infection control: a promising future?, 19-21 June, 2015. Milano, Italy (invited lecture)
110. F. Tassarolo, F. Piccoli, E. Bonomi, M. Rigoni, G. Nollo, P. Caciagli, I. Caola. "Comparing retrieval efficacy of three methods for eluting microorganisms from central venous catheter biofilm". Milano Biofilm Meeting 2015 - Implantable and infection control: a promising future?, 19-21 June, 2015. Milano, Italy (lecture)
111. F. Tassarolo, F. Piccoli, E. Bonomi, P. Lanzafame, G. Nollo, P. Caciagli, I. Caola. "A comparison of three eluting methods for dislodging biofilm and culturing microorganisms from central venous catheters". EUROBIOFILMS 2015, IV European Congress on Microbial Biofilms 23-26 June 2015, Brno, Czech Republic. (poster)
112. I. Caola, L. Drago, F. Tassarolo, M. Sarti, M. Conte, E. Zamparini, P. Viale, CL. Romanò, P. Clerici. "The Italian Association of Clinical Microbiologists (AMCLI) protocol for the microbiological diagnosis of prosthetic joint and fracture-fixation device infection". EUROBIOFILMS 2015, IV European Congress on Microbial Biofilms 23-26 June 2015, Brno, Czech Republic. (lecture)
113. C. Ceresa, F. Tassarolo, I. Caola, D. Maniglio, Nollo G., L. Fracchia. "Synergistic activity of biosurfactant AC7 and farnesol on *Candida albicans* biofilm formation on medical silicone elastomer". EUROBIOFILMS 2015, IV European Congress on Microbial Biofilms 23-26 June 2015, Brno, Czech Republic. (poster)
114. F. Tassarolo, I. Caola, F. Piccoli, P. Caciagli, G. Nollo. "The role of scanning electron microscopy in healthcare". 3rd Joint CNR-FBK-UNITN Workshop on Electron-Matter Interaction as a Tool for Materials Analysis: Theory and Experiment. 16 June 2015, Trento, Italy. (Invited lecture)
115. F. Tassarolo. "Valutazione e controllo delle acque di risciacquo delle lavastumenti". 3M Sterilization day 2015. 30 June 2015. Milano, Italy. (invited lecture)

116. F. Tessarolo, S. Torres, L. Ballesteros, M. Rigoni, F. Piccoli, I. Caola, Y. Montoya, G. Nollo. "A Multi-techniques Approach to assess reprocessing of Single-use electrosurgical pencils". 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. 25-29 August 2015, Milan, Italy. (poster)
117. M. Masè, A. Cristoforetti, L. Avogaro, F. Tessarolo, F. Piccoli, I. Caola, C. Pederzoli, A. Graffigna, F. Ravelli. "A Spectral Approach for the Quantitative Description of Cardiac Collagen Network from Nonlinear Optical Imaging". 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. 25-29 August 2015, Milan, Italy. (poster)
118. S. Gherardi, G. Mariani, F. Tessarolo, G. Nollo. "Valutazione delle tecniche chirurgiche per il trattamento delle condropatie di ginocchio presso l'APSS di Trento". 8th National Congress of the Italian Society of Health Technology Assessment - SIHTA. 1-3 October 2015. Roma, Italy. (lecture)
119. F. Tessarolo, I. Caola, M. Dellantonio, D. Del Dot, F. Piccoli, N. Pace, M. Rigoni, G. Nollo, P. Lanzafame, G. Tirone, A. Brolese, P. Caciagli, E. Geat. "Infezioni correlate a catetere venoso centrale: valutazione di efficacia di due tipi di cateteri medicati presso l'APSS di Trento". 8th National Congress of the Italian Society of Health Technology Assessment - SIHTA. 1-3 October 2015. Roma, Italy. (poster)
120. F. Tessarolo, S. Torres, L. Ballesteros, M. Rigoni, F. Piccoli, I. Caola, P. Caciagli, Y. Montoya, G. Nollo. "Valutazione tecnica della sicurezza di elettrobisturi monouso sottoposti a rigenerazione: studio pilota per la definizione di un protocollo di analisi integrata". 8th National Congress of the Italian Society of Health Technology Assessment - SIHTA. 1-3 October 2015. Roma, Italy. (poster)
121. F. Tessarolo, M Fedel: "Progetto Eviva: sintesi dei risultati di progetto". Consensus conference: Diagnosi e trattamento delle lesioni condrali. October 7th 2015. Trento, Italy. (Invited lecture)
122. F. Tessarolo, F. Piccoli, E. Bonomi, M. Rigoni, G. Nollo, P. Lanzafame, P. Caciagli, I. Caola. "Biofilm su catetere venoso centrale: efficacia di recupero di tre protocolli sperimentali per il distacco e la coltura dei microrganismi". XLIV Congresso Nazionale AMCLI 2015. Rimini, Italy. October 18-21, 2015. (Poster).
123. F. Tessarolo, M Fedel: "Correlazione tra imaging e quadri anatomopatologici". Il danno condrale del ginocchio: dalla riparazione alla sostituzione. November 14th 2015. Cavalese, Italy. (Invited lecture)
124. F. Tessarolo, I. Caola, M. Dellantonio, D. Del Dot, F. Piccoli, N. Pace, M. Rigoni, G. Nollo, P. Lanzafame, G. Tirone, A. Brolese, P. Caciagli, E. Geat. "Infezioni correlate a catetere venoso centrale: valutazione di efficacia di due tipi di cateteri medicati presso l'APSS di Trento". HTA DAY 2015. 18 Novembre 2015. Trento, Italy. (lecture)
125. S. Gherardi, G. Mariani, F. Tessarolo, G. Nollo. "Valutazione delle tecniche chirurgiche per il trattamento delle condropatie di ginocchio presso l'APSS di Trento". HTA DAY 2015. 18 Novembre 2015. Trento, Italy. (lecture)
126. M. Fedel, F. Tessarolo, E. Bonomi, F. Piccoli, P. Caciagli, G. Nollo, M. Molinari: "Correlation between histopathological and biochemical features of the knee cartilage". 17th EFORT Congress. 1-3 June 2016. Geneva, Switzerland. (poster)
127. F. Tessarolo, A. Marinetti, F. Cont, M. Fedel, A. Falzone, M. Neri, L. Ventura, P. Caciagli, F. Piccoli, G. Bianchini, G. Nollo, M. Recla, F. Cortese: "MRI characterization of the knee articular cartilage: a pilot study for assessing MRI protocols by histopathology and biochemistry". 17th EFORT Congress. 1-3 June 2016. Geneva, Switzerland. (poster)
128. F. Tessarolo, F. Piccoli, E. Bonomi, M. Rigoni, G. Nollo, P. Caciagli, I. Caola. "Retrieval of microorganisms from explanted device biofilm: efficacy of three elution methods". ECCMID, 26th European Congress of Clinical Microbiology and Infectious Diseases. Amsterdam, Netherland. April 9-12, 2016. (eposter)
129. R. Frisina, I. Marchesoni, E. Zampedri, F. Tessarolo, F. Piccoli, E. Bonomi, P. Caciagli, G. Nollo, F. Romanelli: "Osservazione in microscopia delle membrane proliferative nelle patologie vitreoretiniche". 14th International Congress of the Italian Society of Ophthalmology (SOI). Milano, Italy. May 18-21, 2016. (poster)
130. R. Frisina, I. Marchesoni, E. Zampedri, F. Tessarolo, F. Piccoli, E. Bonomi, P. Caciagli, G. Nollo, F. Romanelli: "Microscopic study of surgically excised vitreoretinal membranes". 2016 ARVO Annual Meeting, Research: A Vision of Hope. Seattle, WA, USA. May 1-5, 2016. (poster)
131. F. Tessarolo, L. Valentinotti. "Apparecchi di lavaggio e disinfezione automatica dei dispositivi medici: quantificazione dell'ATP nell'acqua di risciacquo del ciclo di lavaggio". Sterilization Summit 2016. June 7, 2016. Milano, Italy. (invited lecture)
132. F. Cont, M. Molinari, F. Tessarolo, M. Fedel, E. Bonomi, G. Nollo, F. Cortese. "Caratterizzazione istopatologica del tessuto osteocondrale in lesioni condrali del ginocchio trattate con tecniche rigenerative: report di 4 casi".

- SIGASCOT 2016 – 6th National Congress of the Società Italiana del Ginocchio Artroscofia Sport Cartilagine Tecnologie Ortopediche. September 28-30, 2016. Florence, Italy. (eposter)
133. A. Marinetti, A. Falzone, F. Tassarolo, A. Cristoforetti, F. Cortese, M. Recla. “Caratterizzazione della cartilagine articolare in RM: studio pilota con valutazione istopatologica e biochimica del tessuto”. 47th National Congress of the Italian Society of Medical Radiology (SIRM). September 15-18, 2016. Naples, Italy. (eposter)
 134. A. Marinetti, L. Ventura, A. Falzone, F. Tassarolo, F. Cortese, M. Recla. “Valutazione morfologica della cartilagine articolare del ginocchio in RM: accordo inter-osservatore e correlazione con l'esame patologico”. 47th National Congress of the Italian Society of Medical Radiology (SIRM). September 15-18, 2016. Naples, Italy. (eposter)
 135. F. Tassarolo. “Reprocessing single-use catheters for interventional cardiology. Is it safe and effective?” 4th Congreso Argentino de Esterilizacion y Desinfeccion Hospitalaria, FUDESA-XXXVI Jornada de Esterilizacion (4th Argentinian Congress of Sterilization and Hospital Disinfection). October 13-14, 2016. Cordoba, Argentina. (Invited lecture).
 136. F. Tassarolo, L. Valentinotti, G. Mariotti, A. Ziglio, M. Rigoni, G. Nollo, J.P.C.M. van Doornmalen Gomez Hoyos. “The added value of measuring ATP in the last rinse water of automated washer-disinfectors”. WFHSS 2016 17th World Sterilization Congress. October 26-29, 2016. Brisbane, Australia. (invited lecture)
 137. F. Tassarolo, S. Torres, L.M. Ballesteros, M. Rigoni, F. Piccoli, I. Caola, Y. Montoya, G. Nollo. “Reprocessing of single-use electrosurgical pencils: modification of surface characteristics after different number of reuses” WFHSS 2016 17th World Sterilization Congress. October 26-29, 2016. Brisbane, Australia. (poster).
 138. I. Caola, F. Tassarolo, M. Sarti, M. Conte, E. Zamparini, P. Viale, CL. Romanò, P. Clerici, L. Drago. Infezioni di protesi ortopediche e mezzi di osteosintesi: il percorso diagnostico microbiologico AMCLI (Associazione Microbiologi Clinici Italiani). National Congress of the Italian Society for Helath Technology Assessment (SIHTA). October 13-15, 2016. Riva del Garda, Italy (lecture).
 139. F. Tassarolo, L. Valentinotti, F. Piccoli, E. Bonomi, M. Rigoni, G. Nollo, C. Caciagli, G. Mariotti, A. Ziglio, J.P.C.M. van Doornmalen Gomez Hoyos, I. Caola. “Quantificazione del carico microbico e dell’ATP nell’ultima acqua di risciacquo degli apparecchi di lavaggio e disinfezione dei dispositivi medici: potenzialità per il monitoraggio del processo”. XLV Congresso Nazionale AMCLI 2016. Rimini, Italy. November 6-9, 2016. (Poster).
 140. I. Caola, F. Tassarolo, M. Sarti, M. Conte, E. Zamparini, P. Viale, CL. Romanò, P. Clerici, L. Drago. Infezioni di protesi ortopediche e mezzi di osteosintesi: il percorso diagnostico microbiologico AMCLI (Associazione Microbiologi Clinici Italiani). Helath Technology Assessment Day. January 25-27, 2017. Trento, Italy (lecture).
 141. F. Tassarolo, C. Ceresa, F. Piccoli, D. Maniglio, M. Rinaldi, G. Allegrone, F. Ruini, V. Chiono, P. Caciagli, G. Nollo, I. Caola, L. Fracchia. “Novel biosurfactants are effective in inhibiting fungal and bacterial biofilm formation on medical-grade silicone in vitro”. ECCMID, 27th European Congress of Clinical Microbiology and Infectious Diseases. Vienna, Austria. April 22-25, 2017. (poster)
 142. A. Marinetti, F. Tassarolo, A. Cristoforetti, F. Cortese, S. Della Sala. “Sviluppo e validazione di un fattaccio ibrido sintetico-biologico per l’ottimizzazione delle sequenze RM della cartilagine articolare”. National Congress of the Section for Muscoloskeletal Radiology of the Italian Society of Medical Radiology (SIRM). May 19-20, 2017. Rome, Italy. (lecture)
 143. C. Ceresa, F. Ruini, M. Rinaldi, F. Tassarolo, D. Maniglio, G. Nollo, I. Caola, G. Allegrone, V. Chiono, L. Fracchia. “Biosurfactant-based coatings inhibit fungal and bacterial biofilm on medical-grade silicone”. European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society, TERMIS 2017. Davos, Switzerland. June 26 - 30, 2017. (lecture)
 144. F. Tassarolo, C. Ceresa, D. Maniglio, F. Piccoli, S. Eccheli, M. Rinaldi, G. Allegrone, F. Ruini, V. Chiono, G. Nollo, I. Caola, L. Fracchia. “Medical-grade silicone coated by AC7 biosurfactant inhibits fungal biofilm formation preserving biocompatibility”. European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society, TERMIS 2017. Davos, Switzerland. June 26 - 30, 2017. (poster)
 145. F. Ruini, C. Ceresa, G. Allegrone, D. Maniglio, F. Tassarolo, F. Piccoli, M. Rinaldi, G. Nollo, I. Caola, G. Ciardelli, L. Fracchia, V. Chiono. “Surface functionalization strategies to inhibit biofilm formation on silicone materials for implantable devices”. European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society, TERMIS 2017. Davos, Switzerland. June 26 - 30, 2017. (poster)
 146. C. Ceresa, F. Ruini, F. Tassarolo, D. Maniglio, F. Piccoli, V. Chiono, I. Caola, G. Nollo, M. Rinaldi, G. Allegrone, L. Fracchia. “Inhibition of *Staphylococcus aureus* biofilm on medical-grade silicone by different biosurfactant-

- based coating strategies". Microbiology 2017, Congress of the Italian Society of general Microbiology and Microbial Biotechnologies. Palermo, Italy. September 17 - 20, 2017. (poster)
147. F. Tassarolo, E. Morganti, S. Anzivino, S. Cecchetto, GM. Guandalini, M. Rigoni, F. Roncato, G. Conti, G. Nollo. "Nuovi paradigmi per la valutazione di sicurezza e efficacia di dispositivi medici basati su tecnologie ICT: lo studio multicentrico UNCAP-IT per le tecnologie assistive dell'anziano con deficit cognitivo". National Congress of the Italian Society for Health Technology Assessment (SIHTA). October 12-13, 2017. Roma, Italy (lecture).
 148. L. Valentinotti, F. Tassarolo, F. Piccoli, E. Bonomi, M. Rigoni, G. Nollo, J.P.C.M. van Doornmalen Gomez Hoyos, P. Caciagli, I. Caola, A. Ziglio, L. Fabbri. "Quantificazione dell'AdesinTriFosfato (ATP) nell'ultima acqua di risciacquo: potenzialità per il controllo di processo negli apparecchi automatici di lavaggio e disinfezione dei dispositivi medici". XIV Congresso nazionale Associazione Italiana Operatori Sanitaria Addetti alla Sterilizzazione. Roma, Italy. October 19-21, 2017. (invited lecture).
 149. C. Ceresa, F. Tassarolo, F. Ruini, E. Tambone, D. Maniglio, E. Bonomi, S. Eccheli, I. Caola, P.Caciagli, M. Rinaldi, G. Allegrone, V. Chiono, L. Fracchia. "Effectiveness of different biosurfactant-based coatings for inhibiting *Staphylococcus aureus* biofilm on medical-grade silicone". ECCMID, 28th European Congress of Clinical Microbiology and Infectious Diseases. Madrid, Spain. April 21-24, 2018. (lecture)
 150. C. Ceresa, E. Tambone, F. Tassarolo, E. Bonomi, F. Piccoli, D. Maniglio, V. Chiono, I. Caola, P.Caciagli, M. Rinaldi, S. Valera, G. Allegrone, L. Fracchia. "Microbial biosurfactant R89 inhibits adhesion of non-albicans species of *Candida* on medical-grade silicone". ECCMID, 28th European Congress of Clinical Microbiology and Infectious Diseases. Madrid, Spain. April 21-24, 2018. (poster)
 151. S. Anzivino, F. Tassarolo, V. Conotter, G.M. Guandalini, G. Conti, G. Nollo: "Nuovi paradigmi dell'HTA: l'esempio del progetto UNCAP per la valutazione by design di soluzioni ICT in sanità". 18° Convegno Nazionale Associazione Italiana Ingegneri Clinici. Roma, Italy. May 10-12, 2018. (poster)
 152. S. Anzivino, F. Tassarolo, G. Guandalini, P.G. Ianes, V. Conotter, G. Nollo: "HTA approach to the development and testing of care technologies for ageing people. The UNCAP experience". 26th International Conference on Health Promoting Hospitals and Health Services. Bologna, Italy. June 6-8, 2018. (lecture)
 153. S. Anzivino, G. Nollo, F. Tassarolo: "Designing multidimensional assessment of ICTs for elderly people: the UNCAP clinical study protocol". ForITAAL, 9th Italian Forum on Ambient Assisted Living. Lecce, Italy. July 2-4, 2018. (lecture)
 154. F. Tassarolo "Reuse of SUDs in Europe according to the MDR". WFHSS 2018 19th World Sterilization Congress. October 31-November 3, 2018. Mexico City, Mexico. (invited lecture)
 155. F. Tassarolo, F. Piccoli, G. Nollo, P. Caciagli, I. Caola: "La microscopia elettronica a scansione nello studio del biofilm microbico in ambito clinico: l'esperienza del dipartimento laboratorio e servizi dell'APSS di Trento". XLVII Congresso Nazionale AMCLI 2018. Rimini, Italy. November 10-13, 2018. (Poster).
 156. F. Tassarolo, E. Bettio, E. Bonomi, F. Piccoli, I. Caola, S. Gross, G. Nollo, P. Caciagli, E. Bressan: "Sviluppo di un ricoprimento in sericina su titanio medicale: risultati preliminari delle proprietà antibiofilm". XLVII Congresso Nazionale AMCLI 2018. Rimini, Italy. November 10-13, 2018. (Poster).
 157. F. Tassarolo, F. Piccoli, G. Nollo, P. Caciagli, I. Caola: "La microscopia elettronica a scansione nello studio del biofilm microbico in ambito clinico: l'esperienza del dipartimento laboratorio e servizi dell'APSS di Trento". XLVII Congresso Nazionale AMCLI 2018. Rimini, Italy. November 10-13, 2018. (Poster).
 158. C. Ceresa, E. Tambone, F. Tassarolo, E. Bonomi, F. Piccoli, D. Maniglio, V. Chiono, I. Caola, P. Caciagli, M. Rinaldi, S. Valera, G. Allegrone, L. Fracchia: "Inibizione dell'adesione di specie di *Candida* non-albicans su silicone medicale mediante ricoprimento con biosurfattante microbico R89" XLVII Congresso Nazionale AMCLI 2018. Rimini, Italy. November 10-13, 2018. (Poster).
 159. C. Ceresa, F. Tassarolo, F. Ruini, E. Tambone, D. Maniglio, E. Bonomi, S. Eccheli, I. Caola, P. Caciagli, M. Rinaldi, G. Allegrone, V. Chiono, L. Fracchia: "Nuove strategie per inibire la crescita di biofilm di *Staphylococcus aureus* su silicone medicale: efficacia di un ricoprimento con biosurfattanti microbici". XLVII Congresso Nazionale AMCLI 2018. Rimini, Italy. November 10-13, 2018. (Poster).
 160. E. Bonomi, C. Ceresa, F. Piccoli, D. Maniglio, E. Tambone, I. Caola, G. Nollo, P. Ghensi, P. Caciagli, G. Allegrone, L. Fracchia, F. Tassarolo: "Microbial biosurfactant R89 inhibits biofilm formation of *Staphylococcus* spp. on titanium: an in-vitro preliminary study". ECCMID, 29th European Congress of Clinical Microbiology and Infectious Diseases. Amsterdam, The Netherlands. April 13-16, 2019. (Poster).
 161. F. Tassarolo, G. Nollo, C. Conotter, G. Onorati, E.I. Konstantinidis, D. Petsani, P.D. Bamidis: "User-centered co-design and AGILE methodology for developing ambient assisting technologies. Study plan and methodological

- framework of the CAPTAIN project". 10th Italian Forum on Ambient Assisted Living. Ancona, Italy. June 19-21, 2019 (Lecture).
162. L. Fracchia, E. Tambone, F. Tassarolo, D. Maniglio, I. Carmagnola, I. Caola, G. Nollo, M. Rinaldi, G. Allegrone, V. Chiono, C. Ceresa. "Rhamnolipids-based coatings for the inhibition of biofilm formation on medical-grade silicone". XXXIII Congresso Società Italiana di Microbiologia Generale e Biotecnologie Microbiche (SIMGMB). June 19-22, 2019. Florence, Italy.
 163. E. I. Konstantinidis, D. Petsani, G. Conti, A. Billis, V. Conotter, G. Chican, L.T. Llewellynn, A Rivero Rodríguez, S. Hors Fraile, A. Beristain, G. Epelde, U. Diaz-Orueta, L. Hopper, M. Kostin, R. Almeida, W. Kniejski, G. Nollo, F. Tassarolo, P.D. Bamidis. "A new approach for ageing at home: The CAPTAIN system". 17th World Congress of Medical and Health Informatics. Lyon, France. August 25-30, 2019. (poster)
 164. C. Ceresa, E. Fedeli, F. Tassarolo, D. Maniglio, M. Rinaldi, M.A. Diaz De Rienzo, L. Fracchia. "Biosurfactant-coatings for the control of multi-species microbial biofilm development on biomedical materials". Biosurfactants 2019 International Conference. Stuttgart, Germany. September 25-27, 2019. (poster)
 165. C. Ceresa, E. Tambone, F. Tassarolo, D. Maniglio, I. Carmagnola, I. Caola, G. Nollo, M. Rinaldi, G. Allegrone, V. Chiono, L. Fracchia "Rhamnolipids-based coatings inhibit *Candida* spp. biofilm formation on medical-grade silicone". Biosurfactants 2019 International Conference. Stuttgart, Germany. September 25-27, 2019. (poster)
 166. E. Tambone, C. Ceresa, F. Piccoli, D. Maniglio, I. Caola, G. Nollo, P. Ghensi, P. Caciagli, G. Allegrone, L. Fracchia, F. Tassarolo: "Rhamnolipids-coating on titanium: a promising approach for preventing microbial biofilm formation at the implant surface". Biosurfactants 2019 International Conference. Stuttgart, Germany. September 25-27, 2019. (poster)
 167. F. Tassarolo "New insights in steam sterilization. Overcoming worst-case for steam penetration sterilization challenges with 4D sensor". WFHSS 2019 20th World Sterilization Congress. October 30-November 2, 2019. The Hague, The Netherlands. (invited lecture)
 168. Ceresa C., Fedeli E., Tassarolo F., Maniglio D., Rinaldi M., Diaz De Rienzo M.A., Fracchia L. "Biosurfattanti microbici: un nuovo approccio per il controllo dello sviluppo di biofilm multi-specie". XLVIII Congresso Nazionale AMCLI 2019. Rimini, Italy. November 9-12, 2019. (Poster).
 169. C. Ceresa, F. Tassarolo, F. Ruini, E. Tambone, D. Maniglio, E. Bonomi, S. Eccheli, I. Caola, P. Caciagli, M. Rinaldi, G. Allegrone, V. Chiono, L. Fracchia: "Nuove strategie per inibire la crescita di biofilm di *Staphylococcus aureus* su silicone medicale: efficacia di un ricoprimento con biosurfattanti microbici". XLVIII Congresso Nazionale AMCLI 2019. Rimini, Italy. November 9-12, 2019. (Poster).
 170. E. Tambone, C. Ceresa, F. Piccoli, D. Maniglio, I. Caola, G. Nollo, P. Ghensi, P. Caciagli, L. Fracchia, F. Tassarolo: "Efficacia di un ricoprimento con rhamnolipidi nell'inibire la formazione di biofilm microbici su impianti in titanio medicale". XLVIII Congresso Nazionale AMCLI 2019. Rimini, Italy. November 9-12, 2019. (Lecture).
 171. F. Tassarolo: "Reuse of SUDs in Europe according to the MDR". 11th International Sterilization and Disinfection Congress. November 27-December 1, 2019. Antalya, Turkey. (Invited lecture)
 172. F. Tassarolo: "Quantification of ATP in last rinse water of automated washer disinfectors as a tool for monitoring the process". 11th International Sterilization and Disinfection Congress. November 27-December 1, 2019. Antalya, Turkey. (invited lecture)
 173. E. Tambone, C. Ceresa, F. Piccoli, D. Maniglio, I. Caola, G. Nollo, P. Ghensi, P. Caciagli, L. Fracchia, F. Tassarolo. "Rhamnolipid coating reduces formation of *Candida albicans* - *Staphylococcus aureus* mixed biofilm on titanium implants: an in-vitro study". ECCMID, 30th European Congress of Clinical Microbiology and Infectious Diseases. Paris, France. April 18-21, 2020. (Poster).
 174. A. Cristoforetti, F. Tassarolo, M. Rigoni, G. Nollo. "Remote Center of Motion and Synchronized Rotation for a Motorized Surgical Table". 2020 IEEE 20th Mediterranean Electrotechnical Conference (MELECON), June 15-18, 2020. Palermo, Italy.
 175. F. Tassarolo. "Regolamento europeo 745 del 2017 sui DM: un "warm up" dopo l'entrata in vigore nel maggio 2020. Quando la responsabilità cessa di essere in capo al fabbricante?" Sterilization Summit 2020, September 8th, 2020, Milano, Italy. (invited lecture)
 176. C. Tibaldo, F. Malesani, L. Renata, I. Castelli, PP. Benettollo, F. Tassarolo, L. Fambri, L. Benedetti, G. Nollo: "La sanificazione e il riutilizzo dei guanti monouso: valutazione di fattibilità e sicurezza di una pratica potenzialmente necessaria in un contesto emergenziale". National Congress of the Italian Society for Health Technology Assessment (SIHTA). October 26-30, 2020. Roma, Italy (lecture).

177. G. Rizzo, F. Tessarolo, A. Cristoforetti, A. Marinetti, M. Rigoni, L. Puddu, F. Cortese, SW. Della Sala, G. Nollo. "La mappatura quantitativa del tempo di rilassamento T2 della risonanza magnetica consente di valutare l'efficacia dei trattamenti rigenerativo o riparativo delle lesioni osteocondrali dell'astragalo". National Congress of the Italian Society for Health Technology Assessment (SIHTA). October 26-29, 2021. Roma, Italy (lecture).
178. F. Tessarolo: "Electron Microscopy in Biomedical Research". Perspectives in Electron Microscopy II. October 1st, 2021. Trento, Italy. (invited lecture)
179. F. Tessarolo: "Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis". 12th International Sterilization and Disinfection Congress. December 9-12, 2021. Antalya, Turkey. (invited lecture)
180. F. Tessarolo: "Are reusable cotton surgical gowns and drapes the same after repeated clinical use and reprocessing?". 12th International Sterilization and Disinfection Congress. December 9-12, 2021. Antalya, Turkey. (invited lecture)
181. E. Tambone, A. Marchetti, C. Ceresa, F. Piccoli, A. Anesi, G. Nollo, I. Caola, M. Bosetti, L. Fracchia, P. Ghensi, F. Tessarolo. "Rhamnolipid biosurfactant coating contrasts Streptococcus oralis biofilm on medical grade titanium preserving osteoblast adhesion". ECCMID, 32nd European Congress of Clinical Microbiology and Infectious Diseases. Lisbon, Portugal. April 23-26, 2022. (ePoster).
182. F. Tessarolo, E. Torri, S. Rizzardo, J. Trenado Alvarez, L. Buguñá Hoffmann, E. Calbo Sebastian, S. Schmiedl, P. Ahmad-Nejad, B. Ghebremedhin, I. Arrizabalaga Garde, M. Sanchis Amat. Testing innovative technologies for monitoring multidrug-resistant pathogens in clinical settings: challenges and opportunities of the ANTISUPERBUG pre-commercial procurement. ECCMID, 32nd European Congress of Clinical Microbiology and Infectious Diseases. Lisbon, Portugal. April 23-26, 2022. (ePoster).
183. F. Tessarolo, E. Torri, S. Rizzardo, J. Trenado Alvarez, L. Buguñá Hoffmann, E. Calbo Sebastian, S. Schmiedl, P. Ahmad-Nejad, B. Ghebremedhin, I. Arrizabalaga Garde, M. Sanchis Amat. Developing non-invasive innovative technologies to monitor and detect multidrug resistant pathogens in clinical settings: ANTI-SUPERBUGS pre-commercial procurement project. XLIX Congresso Nazionale AMCLI 2022. Rimini, Italy. February 26-March 1, 2022. (ePoster).
184. E. Tambone, A. Marchetti, C. Ceresa, F. Piccoli, A. Anesi, G. Nollo, I. Caola, M. Bosetti, L. Fracchia, P. Ghensi, F. Tessarolo. "Medical grade titanium coated with rhamnolipid biosurfactant inhibits Streptococcus oralis biofilm and preserves osteoblast adhesion". XLIX Congresso Nazionale AMCLI 2022. Rimini, Italy. February 26-March 1, 2022. (ePoster).
185. F. Tessarolo. "Biofilm microbico e dispositivi medici. Evidenze dalla ricerca scientifica". V Simposio Nazionale: La sterilizzazione dei dispositivi medici riutilizzabili. Un anello nella sicurezza delle cure. May 7, 2022. Bologna Italy. (invited lecture)
186. F. Tessarolo: "E' possibile monitorare in tempo reale la quantità di vapore presente nei dispositivi cannulati durante il processo di sterilizzazione?" XV Congresso Nazionale AIOS, June 9-11, 2022. Bari, Italy. (invited lecture)
187. S. Chiera, A. Cristoforetti, L. Benedetti, L. Borro, L. Mazzei, G. Nollo, F. Tessarolo. "The role of filter breathability in reducing the fraction of exhaled air leaking from surgical and community face masks". IEEE International Symposium on Medical Measurements and Applications (MeMeA). Special Session #6: "Innovative sensors and technologies for preventing air-borne infection spreading: detection, monitoring, tracking and treatment". June 22-24, 2022. Messina, Italy. (lecture)
188. J. Dolcini, S. Gómez-Montes, R. Obregón, M. Collado, F. Barbabella, C. Chiatti, F. Tessarolo. "Accuracy of a novel Raman-based technology for the early detection of multidrug-resistant bacteria". IEEE International Symposium on Medical Measurements and Applications (MeMeA). Special Session #6: "Innovative sensors and technologies for preventing air-borne infection spreading: detection, monitoring, tracking and treatment". June 22-24, 2022. Messina, Italy. (lecture)
189. S. Tarter, S. Gialanella, F. Tessarolo, G. Nollo, A. Molinari. "From a clinical case to a general methodology to analyze prosthetic joint failure by micro- and nano-characterization of intra-tissue wear debris". 16th Multinational Congress on Microscopy. September 04-09, 2022. Brno, Czech Republic. (poster)
190. F. Tessarolo. "Mascherine chirurgiche e di comunità: una rete di laboratori universitari per garantire sicurezza e prestazioni". Biomedical Technologies Expo, Workshop on: "Healthcare e innovazione: tecnologie avanzate e nuove prospettive di sviluppo". October 4-5, 2022. Modena, Italy.

191. F. Tessarolo, M. Masè, A. Visonà, J.P.C.M. van Doornmalen Gomez Hoyos. "Monitoring steam penetration in channelled instruments: an evidence-based worst-case for practical situations". 23rd World Congress of Sterilization Sciences. November 16-19, 2022. Barcelona, Spain. (invited lecture)
192. F. Tessarolo. "The added value of measuring steam quality in every load". 24th World Congress of Sterilization Sciences. October 18-21, 2023. Bruxelles, Belgium. (invited lecture)
193. F. Tessarolo: "Investigating steam penetration into channelled devices: the impact of the load amount and the wrapping system?". 13th International Sterilization and Disinfection Congress. November 23-26, 2023. Marmaris, Turkey. (invited lecture)
194. F. Tessarolo. "La penetrazione del vapore negli strumenti cannulati: uno studio sperimentale per l'identificazione del "worst case scenario". VI Simposio Nazionale: La centrale di sterilizzazione: l'evoluzione di un servizio. December 2nd, 2023. Bologna Italy. (invited lecture)
195. F. Tessarolo: "Qualità del vapore: una review di standard e letteratura scientifica" XVI Congresso Nazionale AIOS - La Sterilizzazione un processo speciale - Connubio tra scienza e competenza. May 23-25, 2024. Bologna, Italy. (invited lecture)

SCHOOLS, COURSES, AND WORKSHOPS ATTENDANCE:

- Course: J C Geller: *“Corso pratico di ablazione atriale: Metodica transettale in atrio sinistro”*. S. Chiara Hospital, Trento, Italy. December 11, 2001.
- Workshop: *“Valutazione della tecnologia sanitaria: la chiave per l’introduzione dell’innovazione in medicina”*. Ivano Fracena, Trento, Italy. October, 11-12, 2002.
- School: Scuola Nazionale di Biofisica X ciclo, *“Biofisica delle radiazioni”*, Bressanone, Italy. September 10-13, 2002.
- Course: P. Scardi: *Diffrazione da materiali policristallini*. Course for Doctoral Students in Materials Engineering. Dept of Material Engineering and Industrial Technologies, University of Trento, Trento, Italy. January 27-31, February 4, 2003.
- School: 10° corso-scuola CIRMIB: *“Ingegneria dei tessuti, Cellule staminali, Terapia genica”*, Ischia Porto, Napoli, Italy. July 7-11, 2003.
- School: Scuola Annuale Società Nazionale di Biofisica: *“Biofisica della cellula”*, Bressanone, Italy. September 8-10, 2003.
- School: Scuola Annuale CNR - Gruppo Nazionale di Bioingegneria: *“Ingegneria della postura e del movimento”*, Bressanone, Italy. September 22-26, 2003.
- Workshop: *“Valutazione della tecnologia sanitaria: la stesura di un rapporto di technology assessment”*, Ivano Fracena, Trento, Italy. October 10-11, 2003.
- Congress: *“Governare il cambiamento in cardiologia: il caso degli stent a rilascio di farmaco”*. Bologna, Italy. April 30, 2004.
- School: VI Scuola P. Giordano Orsini *‘Caratterizzazione Microstrutturale dei Materiali per l’Ingegneria’*. June, 7-11 2004.
- School: 11° Corso scuola Biomateriali: *“Superfici e interfacce caratterizzazione e risposta biologica”*. Ischia Porto, Napoli, Italy. July, 5-9, 2004.
- Workshop: Società Italiana scienze Microscopiche *“Microscopie e Biocompatibilità”*, Dipartimento di scienze Biomediche, Modena, Italy. September, 22-24, 2004.
- Workshop: *“Valutazione della tecnologia sanitaria: la condivisione delle scelte”*. Ivano Fracena, Trento, Italy. October 15-16, 2004.
- School: *“Corso teorico pratico di citochimica e immunocitochimica ultrastrutturale”*, Urbino, Italy. October 28-29, 2004.
- Course attendance: *“Corso di formazione per l’uso in sicurezza dei dispositivi di protezione collettiva: Le cappe chimiche”*, Dep of Material Engineering, University of Trento, Trento, Italy. October 27, 2004.
- Workshop: *“Biofilm Microbici 2005”* I° Workshop Nazionale. Istituto Superiore di Sanità, Rome, Italy. June 20-21, 2005.
- School: 12th CIRMIB Biomaterials School and 1st Expertissue school: *“From biomedical devices to molecular recognition and tissue engineered products”*. Ischia Porto, Napoli, Italy. July, 11-15, 2005.
- School: *“Nanoparticles: synthesis and characterization”*, Polytechnic of Torino, Torino, Italy. March 6-9, 2006.
- Workshop: *“Ultramicrotomy in Material Science and Material Engineering”*, Department of Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy. September 26-27, 2006.
- Course: *“Tutorial on Enterprise For Researchers”*, prof. Roberto Garigliano. Interdepartmental Centre for Research Training in Economics and Management, University of Trento, Trento, Italy. March 9-13-16, 2007.
- Workshop: *“Environmental Electron Microscopy and Confocal Laser Microscopy”*, Centro Interdipartimentale Grandi Strumenti, Università di Modena e Reggio Emilia, Modena, Italy. March 3, 2007.
- Meeting: *“Protesi d’anca: materiali a confronto”*. 135th Meeting of the SERTOT (Società Emiliano-romagnola-triveneta di ortopedia e traumatologia). Limena-Padova, Italy. October 26-27, 2007.
- Course: *“Tessuti periimplantari in salute e malattia”*, Lecturer: prof. Tord Berglundh, Dept. Of periodontology, Goteborg University. Organised by Associazione Nazionale Dentisti Italiani-Trento. Pergine-Trento, Italy. Novembre 24, 2007.
- Conference: *“Prevenzione e gestione del Rischio in Odontoiatria”* Società Italiana Multidisciplinare per la Prevenzione delle Infezioni nelle Organizzazioni Sanitarie. Bologna, Italy. March 28-29, 2008.
- School: COST-WG3 Training School: Core Laboratories for the Improvement of Medical Devices In Clinical Practice from the Failure of the Explanted Prostheses Analysis (FEPA). Biomedical Engineering Institute, University of Porto, Porto, Portugal. June 5-7, 2008.

- Conference: "3rd Knee and Shoulder updating meeting". Riva del Garda, Trento. Italy. October 3, 2008.
- Workshop: "Cellule staminali mesenchimali in clinica umana e veterinaria", Istituto Zooprofilattico sperimentale della Lombardia ed Emilia Romagna "Bruno Umbertini", Brescia, Italy. October 16, 2008

SEMINARS ATTENDANCE:

- N. Birnbaumer, W. Grodd. *"L'innovazione tecnologica in medicina - f-MRI ad alto campo"* Dept of Physics, University of Trento, Trento, Italy. 18 January 18, 2002. C. Malossi, S. Adami: *Scenari internazionali e linee di sviluppo delle tecnologie sanitarie moderne; Progetto EPI-Medics*. Dept of Physics, University of Trento, Trento, Italy. March 12, 2003.
- Seminar: M. Fedel: *Caratteristiche funzionali e superficiali di cateteri per angioplastica coronaria. Verifiche e definizione di un protocollo per la rigenerazione*. Dept of Physics, University of Trento, Trento, Italy. 26 March, 2003.
- S. Capri: *Valutazione economica dei processi rigenerativi dei dispositivi medici*. Azienda Provinciale per I Servizi Sanitari, Trento, Italy. April 14, 2004.
- Seminars cycle:
 - P. Caciagli: *Aspetti microbiologici nei dispositivi biomedici: problemi aperti*
 - G. Donelli: *Biofilm microbici e dispositivi medici impiantabili*
 - I. Caola: *Applicazione di un modello operativo per rilevazioni batteriologiche su cateteri PTCA*
 - M. Zoppelletto: *Uso dell'"elettroforesi pulsata" nella caratterizzazione dei ceppi batterici responsabili di infezione ospedaliera*
 Oncology Department, Azienda Provinciale per i Servizi Sanitari, Trento, Italy. May 30, 2004.
- C Malossi, A De Giuli: *"Dall' Idea al Prodotto. Sviluppo di un dispositivo Medico: le leggi del mercato e le normative di riferimento"*. Dept of Physics, University of Trento, Trento, Italy. November 4, 2003.
- A Tromboni, L Minto: *"Il sistema elettrico e la sua gestione"*. Dept of Physics, University of Trento, Trento, Italy. 20 November. 2003.
- Seminars cycle:
 - B. Sieff: *"Rigenerare i dispositivi medici si può? Lo stato dell'arte della normativa italiana ed europea"*
 - U. Izzo: *"Reprocessing Medical Devices: primi rilievi comparatistici"*
 Dept of Juridical Science, University of Trento, Trento, Italy. November 18, 2002.
- Seminars cycle:
 - G. Martini: *"L'innovazione tecnologica e la programmazione della sanità in Trentino"*
 - C. Favaretti: *"Valutazione della tecnologia sanitaria: la chiave per l'introduzione dell'innovazione in medicina"*
 - P. Lago: *"Metodi di valutazione di una tecnologia in sanità"*
 - S. Capri: *"Metodi di valutazione economica delle tecnologie sanitarie"*
 - R. Antolini: *"Stato dell'arte delle tecnologie per l'ablazione cardiaca"*
 - G. Guarrera: *"Esempio di HTCA: l'ablazione cardiaca con radiofrequenze e microonde"*
 - F. Chierichetti, M. Camerani: *"Il ruolo delle Tomografie ad Emissione di Positroni nella clinica"*
 - A. Marcolongo: *"Esempio di HTCA: la PET"*
 - M. Disertori: *"L'ablazione cardiaca per via transvenosa"*
 - A. Graffigna: *"L'ablazione cardiocirurgica con radiofrequenze e microonde"* Dept of Physics, University of Trento, Trento, Italy. Novembre-December 2003.
- M. Fedel: *"Principi di microscopia elettronica: SEM, ESEM, EDS"*. Dept of Physics, University of Trento, Trento, Italy. April 2, 2004.
- G. Falini: *"Biomaterialization: Relevance of Chitin-Silk Fibroin Interactions"*. Dept Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy. April 15, 2004.
- Seminars cycle:
 - o M Fedel: *"Microscopio elettronico Principi di funzionamento e potenzialità d'uso"*
 - o P Caciagli: *"Utilizzo di un microscopio ESEM in campo sanitario. Ipotesi di lavoro"*
 Oncology Department, Azienda Provinciale per i Servizi Sanitari, Trento, Italy. June 4, 2004.
- *"Comitati etici a confronto"*, Azienda Provinciale per i Servizi Sanitari di Trento, Trento Italy. January 20, 2012.