

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name

**VUOTTO CLAUDIA**

E-mail

**claudia.vuotto@unicamillus.org**

Nationality

**Italian**

Date of birth

01/02/1983



• Dates

01/10/2024- today

• Name and address of employer

Saint Camillus International University of Health Sciences- UniCamillus

• Type of business or sector

University

• Occupation or position held

Associate professor, Clinical Microbiology (SSD: MEDS-03/A)

• Dates

01/01/2019- today

• Name and address of employer

Neuromicrobiology Laboratory - IRCCS Fondazione Santa Lucia, CERC-  
Via del Fosso di Fiorano 64, 00143 Rome

• Type of business or sector

Research Hospital for Neuromotor Rehabilitation

• Occupation or position held

Team leader

• Main activities and responsibilities

Study of the link between gut microbiota and neurodegenerative diseases; host-microbes interaction; anti-biofilm and anti-fouling compounds

• Dates

01/01/2016- 31/12/2018

• Name and address of employer

Microbial Biofilm Laboratory - IRCCS Fondazione Santa Lucia,  
Via Ardeatina 306, 00179 Rome

<ul style="list-style-type: none"> <li>• Type of business or sector <ul style="list-style-type: none"> <li>• Occupation or position held</li> </ul> </li> <li>• Main activities and responsibilities</li>   <li>• Dates</li> </ul>	<p>Research Hospital for Neuromotor Rehabilitation</p> <p>Post-doc</p> <p>Analysis of mono- and dual-species biofilms formed by different intestinal anaerobic species; response of different aerobic and anaerobic species to antibiotic administration; evaluation of the effect of probiotics against biofilm-growing bacteria.</p> <p>01/01/2011 - 31/12/2015</p>
<ul style="list-style-type: none"> <li>• Name and address of employer</li>   <li>• Type of business or sector <ul style="list-style-type: none"> <li>• Occupation or position held</li> </ul> </li> <li>• Main activities and responsibilities</li>   <li>• Dates</li> </ul>	<p>Microbial Biofilm Laboratory - IRCCS Fondazione Santa Lucia, Via Ardeatina 306, 00179 Rome</p> <p>Research Hospital for Neuromotor Rehabilitation</p> <p>Fellowship</p> <p>Detection of the ability of several Staphylococci strains to form biofilm, both in static and dynamic conditions (Bioflux) and their treatment with antibiotics and anti-biofilm agents. Characterization of their biofilm structures by field emission scanning electron microscope and confocal laser scanning microscope. Evaluation of the ability of different antimicrobial substances adsorbed on polymers to inhibit or disaggregate mature biofilms; Isolation, identification and characterization of microorganisms causing nosocomial infections; correlation between antibiotic resistance and biofilm formation of multidrug-resistant bacteria; study of possible correlations between biofilm-forming ability of different pathogens and their dissemination and persistence in clinical settings.</p> <p>01/01/2010 - 31/10/2010</p>
<ul style="list-style-type: none"> <li>• Name and address of employer</li>   <li>• Type of business or sector <ul style="list-style-type: none"> <li>• Occupation or position held</li> </ul> </li> <li>• Main activities and responsibilities</li> </ul>	<p>Dept of Ultrastructure, National Institute of Health – <i>Viale Regina Elena 299, 00161, Rome</i></p> <p>National Research Institute</p> <p>Fellowship</p> <p>Characterization of Titanium hip prosthesis surfaces by ultra-structural analyses. Bacterial adhesion assays on these surfaces and visualization of the obtained bacterial biofilm by using scanning electron microscopy (SEM) techniques.</p>

- Dates
- Name and address of employer
- Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

Sonication of fragments of Titanium and Co-Cr-Mo explanted prosthesis and identification of the biofilm forming bacteria, either through conventional and molecular techniques.

Ultra-structural analysis by SEM of fragments of explanted prosthesis.

2005/2009

National Institute of Health - *Viale Regina Elena 299, 00161, Rome*

National Research Institute

Student

Bachelor of science: Study of the multispecies biofilm formed in the lumen of biliary stents and evaluation of its role in the occlusive process. Analysis of the explanted biliary stents both from the microbiological point of view, in order to identify the involved microbial species, and from the ultra-structural point of view (SEM) in order to characterize the occlusive material.

Master of Science: Isolation of the intestinal anaerobic species that constitute the biliary sludge, identification of these species by conventional and molecular techniques, and bacterial adhesion assays of the isolated strains.

## EDUCATION AND TRAINING

- Dates
- Name and type of organization providing education and training
  - Title of qualification awarded
- Date
- Name and type of organization providing education and training
  - Title of qualification awarded

15/09/2021-15/09/2032

MIUR

Qualified for the role "Associate Professor", SC 05/I2 SSD BIO/19 Microbiology

28/05/2021 - 28/05/2032

MIUR

Qualified for the role "Associate Professor", SC 06/A3, SSD MED/07 Clinical Microbiology

- Dates
- Name and type of organization providing education and training
- Title of qualification awarded

2015-2016

Dept of Infectious, Parasitic and Immune-mediated Diseases,  
National Institute of Health - Viale Regina Elena 299, 00161, Rome  
Visiting Researcher

- Dates
- Name and type of organization providing education and training
- Title of qualification awarded

2013-2015

Polytechnic university of Marche - PhD school in Medicine - Curriculum Biomedical sciences, Medicine and Public Health

PhD

- Date
- Name and type of organization providing education and training
- Title of qualification awarded

2014

Section of Molecular Gastroenterology, Institute for Biomedical and Clinical Sciences, University of Leeds, UK

Visiting Researcher

- Dates
- Name and type of organization providing education and training
- Title of qualification awarded

June 2013

Università degli Studi della Tuscia- Exam for qualifications to exercise the profession of biologist -Ses. A

Admitted to the profession of biologist -ses. A.

- Dates
- Name and type of organization providing education and training
- Title of qualification awarded

2007 – 2010

Master of Science in Applied Cell Biology, achieved with the vote 110/110 cum laude at "Sapienza" University of Rome.

Biologist

- Dates

2001 – 2006

- Name and type of organization providing education and training
- Title of qualification awarded

Bachelor of Biological Science at "Sapienza" University of Rome.

Biologist junior

**PERSONAL SKILLS AND COMPETENCES**

MOTHER TONGUE

**Italian**

OTHER LANGUAGES

**English**

- Reading skills
- Writing skills
- Verbal skills

GOOD

GOOD

GOOD

SOCIAL SKILLS AND COMPETENCES

-Good communication skills acquired through work experiences and training in different contexts. During my work experiences, I have often worked in teams, managing many situations in which collaboration between different professions and with different time availability was essential. I have a predisposition to learn new techniques quickly and no difficulty in exposing issues in public.

-extra-congress scientific dissemination activities:

1) Docufilm "Padroni per Poco" produced by Philms, Distribution Premier Film; [https://www.youtube.com/watch?v=HMp-czl\\_YSQ](https://www.youtube.com/watch?v=HMp-czl_YSQ)

2) Tg2 Medicina33 "Il rapporto tra malattie neurodegenerative e microbiota" (23/09/2020)

ORGANIZATIONAL SKILLS AND COMPETENCES

Leadership skills and supervisory experience. Good organizational skills and competences.

I contributed to the organization of:

-The first International Congress "Eurobiofilms 2009", held in Rome, 2-5 September 2009 as part of the Local Organizing Committee.

- the ESGB Meeting " Biofilm-based Healthcare-associated Infections: from Microbiology to Clinics" - Rome, October 9-10, 2014 as Scientific Secretary.

-The 4<sup>th</sup> European Congress on Microbial Biofilms "Eurobiofilms 2015", held in Brno, Czech Republic, 23-26 June, 2015 as part of the Scientific Committee.

-The 5<sup>th</sup> European Congress on Microbial Biofilms "Eurobiofilms 2017", held in Amsterdam, The Netherlands, 19-22 September, 2017 as part of the International Scientific Advisory Board

COLLABORATIONS

Supervisor for Italian and European Master students and PhD students

GUT MODEL: Healthcare Associated Infection Research Group, Section of Molecular Gastroenterology, Institute for Biomedical and Clinical Sciences, University of Leeds, Leeds, UK

DISSEMINATION AND PERSISTENCE OF MULTIDRUG-RESISTANT BACTERIA: REQUIMTE. Laboratório de Microbiologia, Faculdade de Farmácia, Universidade do Porto, Porto, Portugal

ANTIMICROBIAL COATINGS: Department of Chemistry, Sapienza University of Rome, Rome.

ANTIMICROBIAL PEPTIDES: Department of Science, University Roma Tre, Rome, Italy

WOUND INFECTIONS: Institute of Ageing and Chronic Disease, University of Liverpool, Liverpool, United Kingdom; Surface Science Research Centre, University of Liverpool, Liverpool, United Kingdom

ANTIBIOTIC PRESSURE: Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona, Italy

PROBIOTICS: Section of Microbiology, Department of Public Health and Infectious Diseases, Sapienza University, Rome, Italy; Department of Life, Health & Environmental Sciences, University of L'Aquila, L'Aquila, Italy

IMMUNE RESPONSE: Neuroimmunology Laboratory, and Neuroimmunosenescence Laboratory, IRCCS Fondazione Santa Lucia, Rome, Italy

HOST-MICROBES INTERACTION: Molecular Neuroimmunology Laboratory, IRCCS Fondazione Santa Lucia, Rome, Italy

EDITOR

- Guest Editor of the Special Issue "Feature Papers in Microbial Biofilms" of *Microorganisms Journal* (ISSN 2076-2607). **IF 4.926**

- Guest Editor of the Special Issue "The Role of Probiotics and Their Metabolites in Neurodegenerative and Neuropsychiatric Disorders" of *International Journal of Molecular Sciences* (ISSN 1422-0067). **IF 6.208**

- Co-Guest Editor of the Special Issue "Microbial Biofilms and Human Infections" of *Microorganisms Journal* (ISSN 2076-2607). **IF 4.926**

-Editorial Board Member (Section Board for 'Medical Microbiology'): *Microorganisms Journal* (ISSN 2076-2607) **IF 4.926**

REVIEWER

- external reviewer for the Swedish Research Council - UF-5: Global Health 2020

- The French National Research Agency (ANR)-2018-2019
- Research Foundation Flanders - Belgian public research council 2015-2018
- Several peer-reviewed, International Journals

#### PROJECTS

-PNRR: M6/C2\_CALL 2023 Full Proposal – “Dissecting the contribution of leaky gut and microbiota alterations on opioid-induced social isolation: a clinical trial. PNRR-MCNT2-2023-12378151”. (2024-2026) Principal Research Collaborator (1.000.000 EUR)

-LaziInnova-“Progettazione razionale di molecole xenobiotiche attive contro batteri patogeni resistenti agli antibiotici (XenoBac)”. (2021-2023). Unit Coordinator (149.289,00 EUR)

-Italian Ministry of Health. “How the gut microbiota shapes immune responses in multiple sclerosis during disease-modifying therapy-GR-2019-12371184”. (2019-2024). Principal investigator (450.000 EUR)

-European Society of Clinical Microbiology and Infectious Diseases (ESCMID). “Virulence and resistance features of *Acinetobacter baumannii* genetic lineages associated with biofilm-based urinary catheter-related infections”. (2012-2014). Investigator (30.000 EUR)

-HUTCHISON BIOFILM MEDICAL SOLUTIONS, “Investigation on the ability of HBMS peptide to prevent and/or disrupt bacterial biofilm”. (2017-2018). Co-Principal investigator (88.000 EUR)

#### TECHNICAL SKILLS AND COMPETENCES

Excellent knowledge of Windows Operating Systems (98/NT4.0/2000/XP/Vista/Windows 7/Windows 8/Windows10)

Excellent use of the main Office applications software (Word, Excel, Power-point)

Excellent knowledge of management software for scanning electron microscopy, fluorescence and confocal microscopy and image analysis software

Metagenomic Analysis

#### OTHER SKILLS AND COMPETENCES

Preparation of in vitro bacterial cultures in liquid and solid media;

Maintenance of cell cultures: cryogenics, subculture; Cell count and viability;

Microbial isolation and identification under both aerobic and anaerobic conditions; Isolation and identification of microorganisms by biochemical tests;

Preparation of mono-and multi-species biofilms in static and dynamic conditions;

Evaluation of antibiotic resistance of planktonic and biofilm-growing bacteria;

Evaluation of anti-biofilm compounds under static and dynamic conditions, and antimicrobial coatings; MLST analysis; Real time-PCR

Extraction of nucleic acids from bacterial cells; Amplification of DNA by Polymerase Chain Reaction (PCR);

Preparation of samples for fluorescence (fluorescent dyes, PNA-FISH and immunofluorescence), confocal, scanning and transmission electron microscopy.  
Microbiota analysis

## Annex 1 - Publications

1. Guaglianone E, Cardines R, **Vuotto C**, Di Rosa R, Babini V, Mastrantonio P, Donelli G. Microbial biofilms associated with biliary stent clogging. *FEMS Immunol Med Microbiol*. 2010;**59**:410-20.
2. Donelli G, **Vuotto C**, Cardines R, Mastrantonio P. Biofilm-growing intestinal anaerobic bacteria. *FEMS Immunol Med Microbiol*. 2012;**65**:318-25.
3. Novais A, Pires J, Ferreira H, Costa L, Montenegro C, **Vuotto C**, Donelli G, Coque TM, Peixe L. Characterization of globally spread *Escherichia coli* ST131 isolates (1991-2010). *Antimicrob Agents Chemother*. 2012;**56**:3973-6.
4. Gianfranco Donelli, **Claudia Vuotto**, Paola Mastromarino. Phenotyping and genotyping are both essential to identify and classify a probiotic microorganism. *Microbial Ecology in Health & Disease* 2013, **24**: 20105 - doi: 10.3402/mehd.v24i0.20105
5. Pasquaroli S, Zandri G, Vignaroli C, **Vuotto C**, Donelli G, Biavasco F. Antibiotic pressure can induce the viable but non-culturable state in *Staphylococcus aureus* growing in biofilms. *J Antimicrob Chemother*. 2013; **68**:1812-7
6. Novais Â, **Vuotto C**, Pires J, Montenegro C, Donelli G, Coque TM, Peixe L. Diversity and biofilm-production ability among isolates of *Escherichia coli* phylogroup D belonging to ST69, ST393 and ST405 clonal groups. *BMC Microbiol*.2013;**13**:144.
7. Gianfranco Donelli & **Claudia Vuotto**. Biofilm-based infections in long-term care facilities. *Future Microbiol*. 2014 Feb;**9**:175-88.
8. Francolini I, Donelli G, **Vuotto C**, Baroncini FA, Stoodley P, Taresco V, Martinelli A, D'Ilario L, Piozzi A. Antifouling polyurethanes to fight device-related staphylococcal infections: synthesis, characterization and antibiofilm efficacy. *Pathog Dis*. 2014 Apr;**70**:401-7.
9. **Vuotto C**, Donelli G. Field emission scanning electron microscopy of biofilm-growing bacteria involved in nosocomial infections. *Methods Mol Biol*. 2014;**1147**:73-84.
10. Longo F, **Vuotto C**, Donelli G. Biofilm formation in *Acinetobacter baumannii*. *New Microbiol*. 2014 Apr;**37**:119-27.
11. Percival SL, Finnegan S, Donelli G, **Vuotto C**, Rimmer S, Lipsky BA. Antiseptics for treating infected wounds: Efficacy on biofilms and effect of pH. *Crit Rev Microbiol*. 2014 Aug **27**:1-17.
12. **Vuotto C**, Longo F, Donelli G. Probiotics to counteract biofilm-associated infections: promising and conflicting data. *Int J Oral Sci*. 2014 Sep 26. doi:10.1038/ijos.2014.52.
13. **Vuotto C**, Barbanti F, Mastrantonio P, Donelli G. *Lactobacillus brevis* CD2 inhibits *Prevotella melaninogenica* biofilm. *Oral Dis*. 2014;**20**(7):668-74.
14. Pasquaroli, S.; Citterio, B.; Cesare, A.; Amiri, M.; Manti, A.; **Vuotto, C.**; Biavasco, F. Role of Daptomycin in the Induction and Persistence of the Viable but Non-Culturable State of *Staphylococcus aureus* Biofilms. *Pathogens* 2014, **3**(3), 759-768
15. **Vuotto, C.**; Longo, F.; Balice, M.; Donelli, G.; Varaldo, P. Antibiotic Resistance Related to Biofilm Formation in *Klebsiella pneumoniae*. *Pathogens* 2014, **3**(3), 743-758

16. Percival Steven L., **Vuotto Claudia**, Donelli Gianfranco, and Lipsky Benjamin A. Biofilms and Wounds: An Identification Algorithm and Potential Treatment Options. *Advances in Wound Care*. 2015 Jul 1; 4(7): 389–397.
17. **Vuotto C**, Donelli G. Anaerobes in biofilm-based healthcare-associated infections. *Adv Exp Med Biol*. 2015;830:97-112.
18. Percival SL, Suleman L, **Vuotto C**, Donelli G. Healthcare-associated infections, medical devices and biofilms: risk, tolerance and control. *J Med Microbiol*. 2015 Apr;64(Pt 4):323-34.
19. Crisante F, Taresco V, Donelli G, **Vuotto C**, Martinelli A, D'Ilario L, Pietrelli L, Francolini I, Piozzi A. Antioxidant Hydroxytyrosol-Based Polyacrylate with Antimicrobial and Antiadhesive Activity Versus *Staphylococcus Epidermidis*. *Adv Exp Med Biol*. 2016;901:25-36. doi: 10.1007/5584\_2015\_5013
20. **Vuotto C**, Moura I, Barbanti F, Donelli G, Spigaglia P. Sub-inhibitory concentrations of metronidazole increase biofilm formation in *Clostridium difficile* strains. *Pathog Dis*. 2016 Mar;74(2). pii: ftv114.
21. Cifone M.G., Cinque B., La Torre C., Lombardi F, Palumbo P, van der Rest M.E, **Vuotto C**, Donelli. Complexities and Pitfalls in the Production of Multispecies Probiotics: The Paradigmatic Case of VSL#3 Formulation and Visbiome. Chapter 20. In book: *The Microbiota in Gastrointestinal Pathophysiology*, 2017pp.171-178. DOI: 10.1016/B978-0-12-804024-9.00020-3.
22. Francolini I, **Vuotto C**, Piozzi A, Donelli G. Antifouling and antimicrobial biomaterials: an overview. *APMIS*. 2017 Apr;125(4):392-417.
23. **Vuotto C**, Grosso F, Longo F, Balice MP, de Barros MC, Peixe L, Donelli G. Biofilm-Forming Ability and Clonality in *Acinetobacter baumannii* Strains Isolated from Urine Samples and Urinary catheters in Different European Hospitals. *Adv Exp Med Biol*. 2018;1057:73-83. doi: 10.1007/5584\_2017\_70.
24. **Vuotto C**, Longo F, Pascolini C, Donelli G, Balice MP, Libori MF, Tiracchia V, Salvia A, Varaldo PE. Biofilm formation and antibiotic resistance in *Klebsiella pneumoniae* urinary strains. *J Appl Microbiol*. 2017 Oct;123(4):1003-1018.
25. **Claudia Vuotto**, Gianfranco Donelli, Anthony Buckley, Caroline Chilton. *Clostridium difficile* biofilm. *Adv Exp Med Biol*. 2018;1050:97-115
26. **Vuotto C**, Donelli G. Novel Treatment Strategies for Biofilm-Based Infections. *Drugs*. 2019 Oct;79(15):1635-1655.
27. Benmouna Z, Dalache F, Zadi-Karam H, Karam NE, **Vuotto C**. Ability of Three Lactic Acid Bacteria to Grow in Sessile Mode and to Inhibit Biofilm Formation of Pathogenic Bacteria. *Adv Exp Med Biol*. 2020 Feb 8. doi: 10.1007/5584\_2020\_495.
28. **Vuotto C**, Battistini L, Caltagirone C, Borsellino G. Gut Microbiota and Disorders of the Central Nervous System. *Neuroscientist*. 2020 May 22:1073858420918826.
29. Stirpe M, Brugnoli B, Donelli G, Francolini I, **Vuotto C**. Poloxamer 338 affects cell adhesion and biofilm formation in *Escherichia coli*: potential applications in the management of catheter-associated urinary tract infections. *Pathogens* 2020, 9(11), 885;
30. R. Larder, E. Krumins, P. Jacob, K. Kortsen, R. Cavanagh, L. Jiang, **C. Vuotto**, I. Francolini, C. Tuck, V. Taresco and S. M. Howdle. Antimicrobial 'Inks' for 3D Printing: Block Copolymer-Silver Nanoparticle Composites Synthesised Using Supercritical CO<sub>2</sub>. *Polym. Chem.*, 2022, **13**, 3768-3779
31. Sturabotti E, Consalvi S, Tucciarone L, Macrì E, Di Lisio V, Francolini I, Minichiello C, Piozzi A, **Vuotto C**, Martinelli A. Synthesis of Novel Hyaluronic Acid Sulfonated Hydrogels Using Safe Reactants: A Chemical and Biological Characterization. *Gels*. 2022; 8(8):480.
32. Gargano F, Guerrera G, Piras E, Serafini B, Di Paola M, Rizzetto L, Buscarinu MC, Annibali V, **Vuotto C**, De Bardi M, D'Orso S, Ruggieri S, Gasperini C, Pavarini L, Ristori G, Picozza M, Rosicarelli B,

- Ballerini C, Mechelli R, Vitali F, Cavalieri D, Salvetti M, Angelini DF, Borsellino G, De Filippo C, Battistini L. Proinflammatory mucosal-associated invariant CD8+ T cells react to gut flora yeasts and infiltrate multiple sclerosis brain. *Front Immunol*. 2022 Jul 28;13:890298.
33. Lanna A, Vaz B, D'Ambra C, Valvo S, **Vuotto C**, Chiurchiù V, Devine O, Sanchez M, Borsellino G, Akbar AN, De Bardi M, Gilroy DW, Dustin ML, Blumer B, Karin M. An intercellular transfer of telomeres rescues T cells from senescence and promotes long-term immunological memory. *Nat Cell Biol*. 2022 Oct;24(10):1461-1474.
34. Henrici De Angelis L, Stirpe M, Tomolillo D, Donelli G, Francolini I, **Vuotto C**. The Multifunctional Role of Poloxamer P338 as a Biofilm Disrupter and Antibiotic Enhancer: A Small Step forward against the Big Trouble of Catheter-Associated *Escherichia coli* Urinary Tract Infections. *Microorganisms*. 2022 Aug 31;10(9):1757.
35. **Vuotto C**, Donelli G, Buckley A, Chilton C. *Clostridioides difficile* Biofilm. *Adv Exp Med Biol*. 2024;1435:249-272.
36. Sabatini A, Lucidi M, Ciolfi S, **Vuotto C**, De Bardi M, Visca P, Battistini L, Visaggio D, Volpe E. Innate immune mechanisms promote human response to *Acinetobacter baumannii* infection. *Eur J Immunol*. 2024 Nov;54(11):e2451170

**H index = 21 ; Number of citations = 2522**

#### **Annex 2 - Oral presentations**

1. Donelli G, Francolini I, **Vuotto C**, Guaglianone E, Martinelli A, Piozzi A, D'ilario L. Nanoparticelle Magnetiche ad attività antimicrobica. Congresso "Contributi delle microscopie allo sviluppo delle nanotecnologie in campo biomedico: nanodrug delivery", Roma, Istituto Superiore di Sanità, 12 maggio 2010. Riassunti.
2. **Vuotto C**, Guaglianone E, Francolini I, Cardines R, Mastrantonio P, Donelli G. "Biofilms of anaerobic bacterial species isolated from clogged biliary stents". XXXIII International Congress of the Society for Microbial Ecology and Disease (SOMED), Greece, September 6-10, 2010. Abstracts, p. 66.
3. **Vuotto C**, Guaglianone E, Donelli G, Giacomozzi C. "Adesione di *Staphylococcus epidermidis* e sviluppo di biofilm in vitro su componenti di protesi d'anca: possibile ruolo dei difetti strutturali presenti sulle superfici protesiche". 38° Congresso Nazionale della Società Italiana di Microbiologia, Riccione 17-20 ottobre 2010. Riassunti, p. 35.
4. **Vuotto C.**, Donelli G., Cardines R., Mastrantonio P. Intestinal anaerobic bacteria: in vitro ability to adhere and to grow as mono- or dual-species biofilm. 22nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), London, UK, 31 March-3 April 2012. Abstract book: Symposia and Oral Presentations, p. 98.
5. **Vuotto C**, Donelli G, Balice MP, Salvia A, Grosso F, Peixe L. *Acinetobacter baumannii* strains associated with biofilm-based urinary catheter-related infections: a molecular and ultrastructural study. XXXV International Congress of the Society for Microbial Ecology and Disease (SOMED), Valencia May 15-17, 2012. Abstract Book, p.11.

6. **Vuotto C**, Donelli G, Varaldo PE. Infezioni da biofilm associate ai cateteri urinari. 41° Congresso Nazionale della Società Italiana di Microbiologia, Riccione 13 - 16 ottobre 2013. Riassunti, p. 53.
7. **Claudia Vuotto**, Grace Crowther, Caroline Chilton, Mark H. Wilcox and Gianfranco Donelli. Innovative approaches to investigate *C. difficile* and other biofilm-forming intestinal anaerobes. 42° Congresso Nazionale della Società Italiana di Microbiologia, Torino 28 settembre - 1 ottobre 2014. Abstract book, p. 45.
8. **Claudia Vuotto**, Mariarita Stirpe, Gianfranco Donelli, Benedetta Brugnoli, Antonella Piozzi, Iolanda Francolini. Anti-biofilm efficacy of a non-ionic surfactant, Poloxamer 338, adsorbed on silicone urinary catheters. 46° Congresso Nazionale della Società Italiana di Microbiologia, Palermo 26-29 settembre 2018. Abstract book, p. 39

#### **Invited Speaker**

1. **Vuotto C**, G Donelli. Probiotics: a potential tool to counteract biofilm-based infections. EUROBIOFILMS 2015-4th European Congress On Microbial Biofilms. 23rd to 26th June 2015 Brno, Czech Republic. Abstract book, p. 32.
2. **Vuotto C**, Donelli G. Biofilm-based anaerobic infections. 38th SOMED Congress Society for Microbial Ecology and Disease: HUMAN MICROBIOME: FROM THE BENCH TO HEALTH BENEFITS, Verona Oct 11-13, 2015. Abstract Book, p.34.
3. **Vuotto C**, G Donelli. Multispecies microbial biofilms: synergies and antagonisms. 44° Congresso Nazionale della Società Italiana di Microbiologia. Pisa, Palazzo dei Congressi - 25 - 28 settembre 2016. Abstract book, pp. 19-20.
4. **Vuotto C**. Biofilms in anaerobic infections. 6th Clinical Microbiology Conference, October 20-22, 2016 Rome, Italy.
5. **Vuotto C**, G. Donelli. Probiotics to counteract biofilm-based infections. Joint Congress of the 19th International Symposium on Gnotobiology (ISG), the 50th Meeting of Japanese Association for Germfree Life and Gnotobiology (JAGG) and the 39th Congress of The Society for Microbial Ecology and Disease (SOMED) 7 – 10 June, 2017, Tokyo, Japan.
6. **Vuotto C**. Ulcers and biofilm: an open wound. Infezioni difficili in oncologia e dermatologia: cost effective initiatives. June 23, 2017, Rome, Italy.
7. **Vuotto C**. Drug Resistance in Biofilm and Possible Strategies to Overcome it. EUROBIOFILMS 2017 - 5th European Congress on Microbial Biofilms. 19-22 September 2017, Amsterdam, Netherland.
8. **Vuotto C**. Possible strategies to overcome drug resistance in biofilm. 39th Annual Congress on MICROBIOLOGY AND MICROBIAL INFECTION. July 23-24, 2018 | Rome, Italy.

### Annex 3 –Poster comunications

1. **Claudia Vuotto**, Emilio Guaglianone, Rita Cardines, Paola Mastrantonio and Gianfranco Donelli. "Biofilm growing intestinal anaerobic bacteria". Exploratory Workshop COST-European Cooperation in Science and Technology. Berlin 22-23 giugno 2011.
2. **Vuotto C**, Francolini I, Guaglianone E, Donelli G. Anti- staphylococcal biofilm efficacy of Daptomycin and Tigecycline: an in vitro evaluation. EUROBIOFILMS 2011-Second European Congress on Microbial Biofilms. Copenhagen - July 6-8, 2011. Abstract book p. 110.
3. **Claudia Vuotto**, Emilio Guaglianone, Rita Cardines, Paola Mastrantonio, Gianfranco Donelli. Biofilm di batteri anaerobi intestinali. 39° Congresso Nazionale della Società Italiana di Microbiologia, Riccione 3-6 ottobre 2011. Riassunti, p. 166.
4. A. Novais, J. Pires, H. Herreira, L. Costa, C. Montenegro, **C. Vuotto**, T.M. Coque, G. Donelli, L. Peixe. Biofilm-formation ability and diversity of globally spread Escherichia coli ST131 isolates resistant: 1991–2010. 22nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), London, UK, 31 March-3 April 2012. Abstract book: Poster Sessions, p. 637.
5. A. Novais, J. Pires, C. Montenegro, **C. Vuotto**, G. Donelli, T.M. Coque, L. Peixe\*. Diversity and biofilm-production ability of widespread Escherichia coli phylogroup D lineages (ST69, ST393, ST405) 22nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), London, UK, 31 March-3 April 2012. Abstract book: Poster Sessions, p. 637.
6. F. Grosso\*, M.L. Costa, H. Ferreira, **C. Vuotto**, S. Quinteira, G. Donelli, L. Peixe. Biofilm production ability of carbapenem-resistant Acinetobacter baumannii lineages and blaOXA-24/40-plasmids. 22nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID).
7. **Vuotto C**, Longo F, Donelli G, Balice MP, Salvia A, Varaldo PE. Biofilm-forming XDR vs MDR Klebsiella pneumoniae clinical isolates. EUROBIOFILMS 2013-Third European Congress On Microbial Biofilms. Ghent, Sept 9-12 2013. Abstract book p. 17.
8. Longo F **Vuotto C**, Barros M, Grosso M, Peixe L, Donelli G. Biofilm-forming *A.baumannii* strains and response to carbapenems. EUROBIOFILMS 2013-Third European Congress On Microbial Biofilms. Ghent, Sept 9-12 2013. Abstract book p. 18.
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Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae per le finalità dell'Avviso Pubblico "Progetti di Gruppi di Ricerca 2020" POR FESR Lazio 2014-2020, in conformità all'art. 13 del D. Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.