

INFORMAZIONI PERSONALI



Daniela Scribano PhD

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Istruzione e formazione

01/10/2006–15/07/2009 Laurea Specialistica in Genetica e Biologia Molecolare 110/110 cum laude

Sapienza Università di Roma,

P.le A. Moro 5, 00185 Roma (Italia) www.uniroma1.it

Titolo della tesi "Studio dell'operone *ospB-phoN2* nel meccanismo di patogenicità di *Shigella flexneri*"

11/2011 Abilitazione Nazionale professione Biologi

Sapienza Università di Roma,

Piazzale A. Moro 5, 00185 Roma (Italia) www.uniroma1.it

01/10/2009–31/10/2012 Dottorato in Biologia, Sezione Scienze Biomolecolari e Cellulari -XXV ciclo-
Università degli Studi di RomaTre

Via Ostiense 159, 00154 Roma (Italia) www.uniroma3.it/

Titolo della tesi "*The role of the ospB-phoN2 operon in the mechanism of pathogenicity of S. flexneri*"

Attività di formazione avanzata MDI Biological lab – Corso Teorico-pratico Application of Organoids
Technology - Bar Harbor Maine 26/05/2019 – 01/06/2019

Esperienze scientifiche
in Italia e all'estero

02/01/2010–01/01/2013 Borse di formazione

Università degli Studi "G. d'Annunzio" CHIETI-PESCARA Dip. Scienze sperimentali e cliniche

Svolta presso: Dip. Sanità Pubblica e Malattie Infettive dell'Università Sapienza di Roma, Piazzale A. Moro 5, 00185 Roma (Italia)

www.dspmi.uniroma1.it/

Attività di ricerca: "Study of the role of *ospB-phoN2* operon in the pathogenetic mechanism of *Shigella flexneri*".

02/01/2013–31/12/2013 Assegno di ricerca di tipo A L.240/2010

Università degli Studi "G. d'Annunzio" CHIETI-PESCARA Dip. Scienze sperimentali e cliniche

Svolto presso: Dip. Sanità Pubblica e Malattie Infettive dell'Università Sapienza di Roma, Piazzale A. Moro 5, 00185 Roma (Italia)

www.dspmi.uniroma1.it

Attività di ricerca: "Study of the role of *phoN2* gene in the pathogenetic mechanism of *Shigella flexneri*".

20/01/2014–31/01/2018 Borse di studio post-dottorato

- Università degli Studi "G. d'Annunzio" CHIETI-PESCARA Dip. Scienze Mediche, Orali e Biotecnologiche
Svolte presso: Dip. Sanità Pubblica e Malattie Infettive dell'Università Sapienza di Roma, Piazzale A. Moro 5, 00185 Roma (Italia)
www.dspmi.uniroma1.it
Attività di ricerca "Role of *phoN2* gene in the pathogenetic mechanism of *Shigella flexneri* and the autophagic response".
- 01/05/2018–30/06/2018 Visiting Scientist
Presso il laboratorio *Mucosal immunology* diretto dal Prof. Fabio Grassi
Institute for Research in Biomedicine
Via Vincenzo Vela 6, CH-6500 Bellinzona (Switzerland) www.irb.usi.ch
Attività di ricerca: "New animal model to study *Shigella* infection"
- 01/07/2018–03/07/2021 Assegno di ricerca di tipo B L.240/2010
Sapienza Università di Roma, Dip. Sanità Pubblica e Malattie Infettive
Piazzale A. Moro 5, 00185 Roma (Italia)
www.dspmi.uniroma1.it
Attività di ricerca "Identificazione di nuove molecole e/o strategie terapeutiche innovative mirate al superamento dell'antibiotico-resistenza caratteristica dei ceppi batterici causa di infezioni nosocomiali"
- 08/11/2021–07/11/2024 Ricercatore a tempo determinato di tipo A L.240/2010
Sapienza Università di Roma, Dip. Sanità Pubblica e Malattie Infettive
Piazzale A. Moro 5, 00185 Roma (Italia)
www.dspmi.uniroma1.it
Attività di ricerca "Realizzazione di un laboratorio di colture cellulari tridimensionali (organoidi) per la ricerca di strategie terapeutiche innovative che intervengano sulle interazioni microrganismo-ospite agendo su vie molecolari implicate nella patogenesi di malattie infiammatorie acute e croniche"
- 15/01/2025 a oggi Ricercatore in Tenure Track (RTT) L.240/2010
Sapienza Università di Roma, Dip. Sanità Pubblica e Malattie Infettive
Piazzale A. Moro 5, 00185 Roma (Italia)
www.dspmi.uniroma1.it
- 08/11/2021 a oggi Responsabile dell'attività di ricerca del Laboratorio "Organoidi" presso il Dipartimento di Sanità Pubblica e Malattie Infettive all'Università Sapienza di Roma, Responsabile Scientifico Prof. Anna Teresa Palamara.
- 01/04/2023 a 01/05/2025 Responsabile scientifico della ricerca "Studio dell'interazione tra ceppi di *Escherichia coli* commensali e ceppi patogeni sullo stato di salute/malattia dell'epitelio intestinale: sviluppo di strategie anti-virulenza e di formulazioni di ceppi probiotici *disease-targeted*." Approvata dal Comitato Etico dell'Azienda Ospedaliera Policlinico Umberto I APP7231 del 06/09/2023.
- 07/02/2022 a 07/02/2032 Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Seconda Fascia nel Settore Concorsuale 06/A3 - MICROBIOLOGIA E MICROBIOLOGIA CLINICA.

Collaborazioni

Dr. Ambrosi, Department of Human Sciences and Promotion of the Quality of Life, San Raffaele Open University, IRCCS, Rome, Italy

Dr. Behzadi, Microbiology Department, Islamic Azad University Shahr-e-Qods Branch, Tehran-Iran.

Prof. Di Bonaventura, Department of Medical, Oral and Biotechnological Sciences at the G. d'Annunzio University of Chieti-Pescara.

Prof. Roy, Department of Chemistry, Université du Québec à Montréal, Centre-Ville, Montréal, Canada.

Dr. Putignani, Head of the Microbiomics Operative Unit of the Bambino Gesù Pediatric Hospital, IRCCS, Rome, Italy.

Dr. Strati, Mucosal Immunology Lab, Department of Biotechnology and Biosciences, University of Milano-Bicocca, Italy

Responsabilità di progetti

- Bando Sapienza SEED PNR 2021 "Taking it personally: identification of human-derived commensal *Escherichia coli* as beneficial probiotics targeted for inflammatory bowel diseases." Dal 01/01/2022 ad oggi
- Sapienza Progetto Ateneo 2022 Disarming *Acinetobacter baumannii*: an organoid based approach to evaluate its virulence factors Dal 01/01/2023 ad oggi

Attività didattica

Attività formativa Seminario nell'ambito del Dottorato in Malattie Infettive, Microbiologia e Sanità Pubblica dell'Università Sapienza di Roma, sulle tematiche relative ai meccanismi di patogenicità di batteri enterici e ad avanzati modelli cellulari in vitro, "Organoid technology: the revolution of primary cell cultures" Dal 18-12-2019 al 18-12-2019

Seminario, nell'ambito del quinto PhD SIM webinar topic– INTERAZIONE OSPITE-MICROORGANISMO –"SCALING UP CELL INFECTION MODELS TO ORGANOIDS AND ORGANS, dal titolo "Intestinal organoid modeling for intestinal bacteria competition assay" Dal 12-09-2022 al 12-09-2022

Seminario nell'ambito di Cellular and Molecular Biology (CMB) PhD School, Università di Bologna, dal titolo "Instructions for infection: a study of the competitive scenario between intestinal bacteria using organoids" Dal 07-02-2023 al 07-02-2023

Seminario nell'ambito del Dottorato in ADVANCES IN INFECTIOUS DISEASES, MICROBIOLOGY, LEGAL MEDICINE AND PUBLIC HEALTH SCIENCES, dell'Università Sapienza di Roma, dal titolo "Growing Human-Derived Organoids: Essential Methodologies, Tips and Tricks" Dal 05-02-2025 al 05-02-2025

Didattica Molecular Biology, Medicinal Chemistry and Computer Science for Pharmaceutical Applications - Biologia molecolare, Chimica farmaceutica e Informatica per applicazioni farmaceutiche L-29 10612323 FUNDAMENTALS OF MICROBIOLOGY 6CFU MEDS-03/A 2024-2025

Fisioterapia (abilitante alla professione sanitaria di Fisioterapista) - Corso di laurea B - ASL Rieti L/SNT2 1047790 MICROBIOLOGIA E MICROBIOLOGIA CLINICA 2CFU MEDS-03/A 2022-2025

Logopedia (abilitante alla professione sanitaria di Logopedista) - ASL Rieti L/SNT2 1034832 MICROBIOLOGIA E MICROBIOLOGIA CLINICA 2CFU MEDS-03/A 2023-2025

Dentistry and Dental Prosthodontics - Odontoiatria e protesi dentaria LM-46
10603975 MICROBIOLOGY AND CLINICAL MICROBIOLOGY I 1CFU MEDS-03/A
2023-2025

Dentistry and Dental Prosthodontics - Odontoiatria e protesi dentaria LM-46
10603975 MICROBIOLOGY AND CLINICAL MICROBIOLOGY II 2CFU MEDS-03/A
2023-2025

Infermieristica (abilitante alla professione sanitaria di Infermiere) - Roma Azienda
Ospedaliera Sant'Andrea L/SNT1 1047895 MICROBIOLOGIA GENERALE E
CLINICA 1CFU MEDS-03/A 2023-2025

Medicine and surgery (abilitante all'esercizio della professione di Medico Chirurgo) -
Medicina e chirurgia "F" LM-41 1038228 MICROBIOLOGY – 3CFU MEDS-03/A
2021-2025

Medicina e chirurgia "C" (abilitante all'esercizio della professione di Medico
Chirurgo) - Roma Azienda Policlinico Umberto I LM-41 1026264 BIOLOGIA E
GENETICA I – MICROBIOLOGIA 1CFU MEDS-03/A aa 2021-5

Nursing - Infermieristica (abilitante alla professione sanitaria di Infermiere) - Roma
Azienda Ospedaliera Sant'Andrea L/SNT1 1049379 GENERAL MYCROBIOLOGY
AND CLINIC 1CFU MEDS-03/A aa 2019-2025

Didattica integrativa Svolgimento di attività didattica integrativa nel corso integrato di "Microbiologia",
corso di Laurea in Medicina e Chirurgia canale "A" dell'Università Sapienza di Roma
dal 2013 ad oggi; membro della commissione d'esame nell'ambito degli
insegnamenti di "Microbiologia" (SSD MED/07) per il Corso di Laurea in Chimica e
Tecnologie Farmaceutiche (CTF), facoltà di Farmacia e Medicina, e di
"Microbiologia modulo Batteriologia" (SSD MED/07) per il Corso di Laurea in
Medicina e Chirurgia canale "A" Sapienza Università di Roma.

Attività di formazione per Enti esterni

Corso di formazione a distanza "Introduzione alla microbiologia con applicazioni
pratiche concernenti la prova BFE sulle mascherine chirurgiche secondo la norma
EN 14683". 10,11,21 Dicembre 2020

Agenzia delle Dogane e Monopoli
via Mario Carucci, 71, Roma (Italia)

II Edizione, Sede di Milano Via Marco Bruto, 14 - 20138 Milano
24-25 Giugno 2021

Stesura capitoli di libri Zagaglia C., **Scribano D.** (2017). Sterilizzazione e disinfezione. In: Guido
Antonelli, Massimo Clementi, Gianni Pozzi, Gian Maria Rossolini. Principi di
Microbiologia medica III Edizione. Casa Editrice Ambrosiana (CEA), ISBN:
9788808187055
Zagaglia C., **Scribano D.** (2018). Sterilizzazione e disinfezione. In: Guido Antonelli
Massimo Clementi. Principi di Virologia Medica III Edizione. Casa Editrice
Ambrosiana (CEA), ISBN: 8808187179
Márió Gajdác, Herney Andrés García-Perdomo, Meysam Sarshar, Daniela
Scribano, Cecilia Ambrosi, Payam Behzadi (2021). Titolo del Capitolo "A World of
Wonders: Interleukin-1 (IL-1) and IL-2 Families." doi: 10.5772/intechopen.98664
Interleukins – Pubblicato nel libro "The Immune and Non-Immune Systems Related
Cytokines."

Premi e riconoscimenti Vincitore del premio FEMS Conference travel grant 2018 come miglior abstract per
il 46° Congresso nazionale della Società Italiana di Microbiologia (SIM), Palermo,
Italia. C. Ambrosi, L. Perruzza, E. Rottoli, F. Strati, M. Sarshar, A.T. Palamara, C.
Zagaglia, F. Grassi, M. Nicoletti and D. **Scribano** "Apyrase, the *Shigella flexneri*
virulence factor downregulates caspases activity through the degradation of
intracellular ATP."

Primo classificato per il premio "MARIO CAMPA" come miglior presentazione orale
dell'area Batteriologia al 47° Congresso nazionale della Società Italiana di
Microbiologia (SIM), Roma, Italia. **Scribano D.**, Marzano V., Levi Mortera S.,

Sarshar M., Vernocchi P., Zagaglia C., Putignani L., Palamara A.T., Ambrosi C. "Insights into the periplasmic proteins of *Acinetobacter baumannii* AB5075 and the impact of imipenem exposure: a proteomic approach."
 Selezionata come relatore al Applications of Organoid Technology Symposium Online 2021, MDI Biological Laboratory, Bar Harbor, Maine, USA Ambrosi, C., Sarshar, M., Pronio A., Palamara, A.T., **Scribano**, D. "Intestinal organoid modeling for intestinal bacteria competition assay"
 Secondo classificato come miglior presentazione orale dell'area Interazione ospite-patogeno al 50° Congresso nazionale della Società Italiana di Microbiologia (SIM), Napoli, Italia. Perruzza L, Sarshar M, Strati F, Vitiello L, Zagaglia C, Grassi F, Nicoletti M, Palamara AT, Ambrosi C and **Scribano** D. "The *Shigella flexneri* virulence factor apyrase is released inside eukaryotic cells to manipulate host cell fate".

Revisore per riviste scientifiche

Partecipazione a comitati

editoriali

Attività di reviewer per le seguenti riviste

Infection and drug resistance, International Journal of Molecular Science, Annals of Clinical Microbiology and Antimicrobials, BMC, Antibiotics, Microbial biotechnology, Molecules, Heliyon, Microbial pathogenesis, Frontiers in Immunology, PLOS One. Membro del reviewer board della rivista "Antibiotics" (Q2 in Medical Microbiology and Microbiology) MDPI, Basilea, Svizzera.

https://www.mdpi.com/journal/antibiotics/submitter_reviewers

dal 19-11-2020 a oggi

Membro del reviewer board della rivista "Microorganisms" (Q2 in Medical Microbiology and Microbiology) MDPI, Basilea, Svizzera.

<https://www.mdpi.com/journal/microorganisms>

dal 21-11-2020 ad oggi

Membro del reviewer board della rivista "Annals of Clinical Microbiology and Antimicrobials" (Q2 in Medical Microbiology and Infectious diseases) BMC Springer Nature <https://ann-clinmicrob.biomedcentral.com/>

Dal 20-02-2021 ad oggi

Co-guest editor dello Special Issue "Understanding Host-Microbe Interactions: Conflict or Harmony?" nella rivista International Journal of Environmental Research and Public Health (IJERPH), MDPI Basilea, Svizzera.

https://www.mdpi.com/journal/ijerph/special_issues/HostMicrobe_Interactions Dal

31-08-2021 al 31-07-2022

Co-topic editor del research topic "Current Perspectives on Pseudomonas aeruginosa: epidemiology, virulence and contemporary strategies to combat multidrug-resistant (MDR) pathogens" in Frontiers in Microbiology (Q1 in Medical Microbiology and Microbiology) <https://www.frontiersin.org/research-topics/25264/current-perspectives-on-pseudomonas-aeruginosa-epidemiology-virulence-and-contemporary-strategies-to>

Dal 12-08-2021 al 12-06-2022

Co-guest editor dello Special Issue "Resistance Matters: Current Issues and Future Strategies to Combat Multidrug-Resistant Bugs" in Microorganisms (Q2 in Medical Microbiology and Microbiology)

https://www.mdpi.com/journal/microorganisms/special_issues/resistance_matters

Dal 01-01-2022 al 31-08-2023

Partecipazione a congressi come relatore

38° Congresso SIM Riccione 2010

"The periplasmic apyrase (PhoN2) of *Shigella flexneri* localized at the old pole of the bacterium beneath IcsA" A.Petrucca, **D.Scribano**, S.Cannavacciuolo, M.Pompili, C.Ambrosi, E.Bruni, C.Zagaglia, A.Calconi, M.Casalino and M.Nicoletti

39° Congresso SIM Riccione 2011

“Interaction between PhoN2 and OmpA at the old pole of the bacterium allows proper polar IcsA surface exposition and actin based motility in *Shigella flexneri*” **D.Scribano**, A.Petrucca, M.Pompili, C.Ambrosi, E.Bruni, C.Zagaglia, M.Grossi, A.Calconi, L.Nencioni, M.Casalino and M.Nicoletti

40° Congresso SIM Riccione 2012

“Outer membrane protein A (OmpA) is required for *Shigella flexneri* protrusion and plaque formation and cell-to-cell spread” C.Ambrosi, M.Pompili, **D.Scribano**, E.Bruni, C.Zagaglia, S.Ripa, and M.Nicoletti

41° Congresso SIM Riccione 2013

“Periplasmic PhoN2 is required for the escape of *S. flexneri* from autophagy” **D.Scribano**, C. Ambrosi, G.Buglia, V.Iebba, A.Calconi, C.Zagaglia, and M.Nicoletti

Moderatore al PhD Day, - X Seminario 17-05-2021 “Science for Democracy-Democracy for Science”, Dottorato in Malattie Infettive, Microbiologia e Sanità Pubblica dell’Università Sapienza di Roma, Istituto Superiore di Sanità

47° Congresso SIM Roma 2019

"Insights into the periplasmic proteins of *Acinetobacter baumannii* AB5075 and the impact of imipenem exposure: a proteomic approach" **Scribano D.**, Marzano V., Levi Mortera S., Sarshar M., Vernocchi P., Zagaglia C., Putignani L., Palamara A.T., Ambrosi C

Applications of Organoid Technology Symposium Online 2021 MDI Biological Laboratory, Bar Harbor, Maine, USA “Intestinal organoid modeling for intestinal bacteria competition assay” Ambrosi, C., Sarshar, M., Pronio A., Palamara, A.T., **Scribano, D.**

50° Congresso SIM Napoli 2022

“The *Shigella flexneri* virulence factor apyrase is released inside eukaryotic cells to manipulate host cell fate” Perruzza L, Sarshar M, Strati F, Vitiello L, Zagaglia C, Grassi F, Nicoletti M, Palamara AT, Ambrosi C and **Scribano D.**

52° Congresso SIM Pavia 2024

“Searching for new gut friends: in vitro characterization of the probiotic properties of human colonic isolated *Escherichia coli*.” Cecilia Ambrosi, Astri Dwyanti Tagueha, Lucia Nencioni, Anna Teresa Palamara, and **Daniela Scribano**

Attività di divulgazione scientifica

“Superbatteri, Capirli per combatterli”, Opuscolo per studenti di scuola media, in collaborazione con l’Istituto Pasteur Italia, Fondazione Cenci Bolognetti Foundation, Dicembre 2019

“Ricerca di base per la lotta all’antibiotico resistenza”, attività divulgativa promossa dalla Fondazione DANIDIGIO’ da Luglio 2018 a oggi

Aperitivo scientifico Istituto Pasteur Roma **Anisakis cos’è? crudi di mare da gustare consapevolmente** Stefano D’Amelio, Daniela Scribano, Serena Cavallero 24 Maggio 2023

Competenze personali

Competenze informatiche

Microsoft Office™ tools Window

Browser: Internet Explorer, Firefox, Opera, Chrome

Image analysis tools: Photoshop CS6, ImageJ, Adobe Illustrator, Image View software

Bioinformatic softwares: BLAST, CLUSTAL, SWISS-MODEL, HHpred, PSORT, LipoP, SecretomeP, SignalP, STRING,

Databases: NCBI, UNIPROT, PHI-base

Competenze linguistiche Inglese: Scritto C1 – Orale B2 – Lettura C1 – Ascolto B2

Pubblicazioni scientifiche

Parametri bibliometrici Numero di pubblicazioni totali 42

Numero di citazioni totali 982

h-index 18

Website <https://www.scopus.com/authid/detail.uri?authorId=55484822200>

<https://orcid.org/0000-0002-2901-265X>

<https://scholar.google.com/citations?user=dRPWDCkAAAAJ&hl=it>

https://www.researchgate.net/profile/Daniela_Scribano

Pubblicazioni Journal IF= Impact Factor of the year of publication and the 2023 updated on Web of Science;
Citation number on SCOPUS 2024 ^aco-authorship; *Corresponding author

1. Scribano D, Pasqua M, Limongi D, Nencioni L, Teresa Palamara A, Ambrosi C. Correction: The periplasmic protein HslJ is the first-line of defense against oxidative stress in *Acinetobacter baumannii*. *Biol Res.* 2025 Jan 30;58(1):9. doi: 10.1186/s40659-025-00588-4. Erratum for: *Biol Res.* 2025 Jan 10;58(1):2. doi: 10.1186/s40659-025-00584-8. (Q1 BIOLOGY; Journal IF 2023 4.3; Citations 2024:0)
2. Bellini I, Scribano D, Ambrosi C, Chiovoloni C, Rondón S, Pronio A, Palamara AT, Pietrantonio A, Kashkanova A, Sandoghdar V, D'Amelio S, Cavallero S. Anisakis extracellular vesicles elicit immunomodulatory and potentially tumorigenic outcomes on human intestinal organoids. *Parasit Vectors.* 2024 Sep 17;17(1):393. doi: 10.1186/s13071-024-06471-7. (Q1 PARASITOLOGY; Journal IF 3; Citations 2024:0)
3. Di Chiara M, Lazzaro A, Scribano D, Trancassini M, Pietropaolo V, Sonnessa M, De Luca C, Prota R, Onestà E, Laccetta G, Terrin G. Reduced Gut Bacterial Diversity in Early Life Predicts Feeding Intolerance in Preterm Neonates. *Trop Med Infect Dis.* 2024 Aug 6;9(8):174. doi: 10.3390/tropicalmed9080174. (Q2 INFECTIOUS DISEASES; Journal IF 2023 2.8; Citations 2024:0)
4. Capitani V, Arcari G, Ambrosi C, Scribano D, Ceparano M, Polani R, De Francesco A, Raponi G, Ceccarelli G, Villari P, Palamara AT, Marzuillo C, Carattoli A. *In vivo* evolution to hypermucoviscosity and ceftazidime/avibactam resistance in a liver abscess caused by *Klebsiella pneumoniae* sequence type 512. *mSphere.* 2024 Sep 25;9(9):e0042324. doi: 10.1128/msphere.00423-24 (Q2 MICROBIOLOGY; Journal IF 2023 3.7; Citations 2024:0).
5. Scribano D, Cheri E, Pompilio A, Di Bonaventura G, Belli M, Cristina M, Sansone L, Zagaglia C, Sarshar M, Palamara AT, Ambrosi C. *Acinetobacter baumannii* OmpA-like porins: functional characterization of bacterial physiology, antibiotic-resistance, and virulence. *Commun Biol.* 2024 Aug 6;7(1):948. doi: 10.1038/s42003-024-06645-0. (Q1 BIOLOGY; Journal IF 2023 5.2 Citations 2024:2)
6. Passerini S, Babini G, Merenda E, Carletti R, Scribano D, Rosa L, Conte AL, Moens U, Ottolenghi L, Romeo U, Conte MP, Di Gioia CRT, Pietropaolo V. Merkel Cell Polyomavirus in the Context of Oral Squamous Cell Carcinoma and Oral Potentially Malignant Disorders. *Biomedicines.* 2024 Mar 22;12(4):709. doi: 10.3390/biomedicines12040709. (Q1 BIOCHEMISTRY, GENETIC AND MOLECULAR BIOLOGY; Journal IF 2023 3.9; Citations 2024:0)
7. L Perruzza, C Zagaglia, L Vitiello, M Sarshar, F Strati, M Pasqua, F Grassi, M Nicoletti, AT Palamara C Ambrosia, D Scribano** The *Shigella flexneri* virulence factor apyrase is released inside eukaryotic cells to hijack host cell fate. *Microbiol Spectr.* 2023 Dec 12;11(6):e0077523. doi: 10.1128/spectrum.00775-23. (Q2 MICROBIOLOGY; Journal IF 2023 3.7; Citations:1)
8. L Mousavifar; M Sarshar; C Bridot; D Scribano; C Ambrosi; AT Palamara; G Vergoten; B Roubinet; L Landemarre; R Roy Insightful Improvement in the Design of Potent Uropathogenic *E. coli* FimH Antagonists *Pharmaceutics* 2023, Volume 15, Issue 2, 527 doi.org/10.3390/pharmaceutics15020527 (Q1 PHARMACOLOGY & PHARMACY; Journal IF 2023 5.4; Journal IF 2023 4.9; Citations 2024: 3)
9. Sarshar Ma, Scribano Da, Palamara AT, Ambrosi C, Masotti A. The *Acinetobacter baumannii* model can explain the role of small non-coding RNAs as potential mediators of host-pathogen interactions. *Front Mol Biosci.* 2022;9:1088783. doi: 10.3389/fmolb.2022.1088783 (Q2 BIOCHEMISTRY & MOLECULAR BIOLOGY; Journal IF 2022 6.1; Journal IF 2023 3.9; Citations 2024: 3)
10. Sarshar M, Scribano, D; Behzadi, P; Masotti, A; Ambrosi, C Outer membrane vesicles are the powerful cell-to-cell communication vehicles that allow bacteria to monitor extracellular milieu. 2022 *ExRNA* DOI 10.21037/exrna-22-18 (Q3 MOLECULAR BIOLOGY; Journal IF 2022: 0; Journal IF 2023: 3)
11. Bellini I, Scribano D, Sarshar M, Ambrosi C, Pizzarelli A, Palamara AT, D'Amelio S, Cavallero S. Inflammatory Response in Caco-2 Cells Stimulated with Anisakis Messengers of Pathogenicity. *Pathogens.* 2022 Oct 20;11(10). doi: 10.3390/pathogens11101214. (Q2 MICROBIOLOGY; Journal IF 2022: 4.5; Journal IF 2023: 3.3; Citations 2024: 3)
12. Sarshar Ma, Scribano Da, Limongi D, Zagaglia C, Palamara AT, Ambrosi C. Adaptive strategies of uropathogenic *Escherichia coli* CFT073: from growth in lab media to virulence during host cell adhesion. *Int Microbiol.* 2022 Aug;25(3):481-494. doi: 10.1007/s10123-022-00235-y. (Q3 MICROBIOLOGY; Journal IF 2022: 3.3; Journal IF 2023: 2.3; Citations 2024: 7)
13. Behzadi P, Ambrosi C, Scribano D, Zanetti S, Sarshar M, Gajdacs M, Donadu MG. Editorial: Current perspectives on *Pseudomonas aeruginosa*: epidemiology, virulence and contemporary strategies to combat multidrug-resistant (MDR) pathogens. *Front Microbiol.* 2022;13:975616. doi: 10.3389/fmicb.2022.975616. (Q2 MICROBIOLOGY; Journal IF 2022: 6.1; Journal IF 2023: 4; Citations 2024: 14)
14. Marazzato Ma, Scribano Da, Sarshar M, Brunetti F, Fillo S, Fortunato A, Lista F, Palamara AT, Zagaglia C, Ambrosi C. Genetic Diversity of Antimicrobial Resistance and Key Virulence Features in Two Extensively Drug-Resistant *Acinetobacter baumannii* Isolates. *Int J Environ Res Public Health.* 2022 Mar 1;19(5). doi: 10.3390/ijerph19052870. (Q1 PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; Journal IF 2022: 3.4; Journal IF 2023: 4.6; Citations 2024: 4)
15. Scribano D, Sarshar M, Fettucciari L, Ambrosi C. Urinary tract infections: Can we prevent uropathogenic *Escherichia coli* infection with dietary intervention? *Int J Vitam Nutr Res.* 2021 Sep;91(5-6):391-395. doi: 10.1024/0300-9831/a000704. (Q3 NUTRITION & DIETETICS; Journal IF 2021: 0.8; Journal IF 2023: 2; Citations 2024: 5)
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Partecipazione a congressi, poster

4°FEMS Congress Geneve 2011

"*phoN2*, the gene encoding for apyrase (PhoN2) of *Shigella flexneri*, is essential for the polar localization of IcsA"

D.Scribano, A.Petrucca, M.Pompili, C.Ambrosi, E.Bruni, S.Cannavacciuolo, C.Zagaglia, A.Calconi, M.Casalino, and M.Nicoletti

29° Congresso SIMGBM Pisa 2011

"*Shigella flexneri* OspB effector fine tunes the activity of MAP Kinases at early stages of infection" M.Pompili, A.Petrucca, **D.Scribano**, S.Cannavacciuolo, E.Bruni, M.Nicoletti, and C.Ambrosi

30° Congresso SIMGBM Pisa 2013

"Determinants of protein stability and folding: the *Shigella flexneri* periplasmic ATPdiphosphohydrolase story" **D.Scribano**, A.Petrucca, M.Pompili C.Ambrosi E.Bruni F.Polticelli, C.Zagaglia, and M.Nicoletti

42° Congresso SIM Torino 2014

"PERIPLASMIC PhoN2 IS REQUIRED FOR THE ESCAPE OF *SHIGELLA FLEXNERI* FROM AUTOPHAGY" **D. Scribano**, C. Ambrosi, A. Calconi, V. Nicoletti, C. Zagaglia, and M. Nicoletti

43° Congresso SIM Napoli 2015

"Identification of critical residues for OmpA-PhoN2 binding" **Scribano D.**, Damico R., Ambrosi C., Zagaglia C., and Nicoletti M.

44° Congresso SIM Pisa 2016

"Phenotypic comparison of virulence-associated traits between a new sequence type and Italian endemic international clones of *Acinetobacter baumannii*" C. Ambrosi, **D. Scribano**, M. Aleandri, C. Zagaglia, A. Giordano, A.T. Palamara

"*in vitro* model of the human JC polyomavirus replication" C. Prezioso, **D. Scribano**, E. Anzivino, D.M. Rodio, A. Bellizzi, A.T. Palamara, M. Trancassini, V. Pietropaolo

"Genotoxic mucosa-associated *Escherichia coli* in colon diseases: bad bugs in our gut" M Sarshar, **D. Scribano**, M. Marazzato, M. Aleandri, A. Pronio, C. Longhi, C. Zagaglia, M. Nicoletti, A.T. Palamara, M.P. Conte.

"Human polyomavirus JC replication in immortalized COS-7 and glial SVGP12 cell lines: an *in vitro* model of infection" C. Prezioso, **D. Scribano**, D.M. Rodio, A. Bellizzi A.T. Palamara, M. Trancassini, V. Pietropaolo

45° Congresso SIM Napoli 2016

"*Escherichia coli* colonizes colorectal adenomatous polyps: insights into genotypic and phenotypic features" M.

Sarshar, C. Ambrosi, M.R. Aprea, M. Nicoletti, M.P. Conte, A.T. Palamara, C. Zagaglia, D. Scribano

"A new, fast and reliable technique for quantification of intracellular bacteria by In-Cell Western Odyssey Assay" M. Sarshar, **D. Scribano**, A.T. Palamara, C. Ambrosi

"Assessmet of infectious risk during respiratory rehabilitation: study of microbial and polymicrobial contamination of oxygen supply." D.M. Rodio, D. Limongi, **D. Scribano**, C. Ambrosi, V. Cardaci, V. Conti, V. Pietropaolo, M. Trancassini, E. Garaci, A.T. Palamara

46° Congresso SIM Palermo 2018

"*Yersinia enterocolitica* in Italy: a case of septicemia and abdominal aortic aneurysm infection" D. M. Rodio, A.

Bressan, C. Ambrosi, **D. Scribano**, R. Tolli, M. Wassim, F. Speziale, G. Antonelli, M. Trancassini, V. Pietropaolo

"Study of bacterial contamination of oxygen medical devises in chronic obstructive pulmonary disease patients" D. M. Rodio, D. Limongi, P. Checconi, **D. Scribano**, C. Ambrosi, V. Cardaci, V. Conti, V. Pietropaolo, M. Trancassini, E. Garaci, A.T. Palamara

"COS-7-based model: a reliable system able to support a productive John Cunningham virus infection" C. Prezioso, D. Scribano, D.M. Rodio, C. Ambrosi, F. Obregon, M. Trancassini, A.T. Palamara, V. Pietropaolo

"Apyrase, the *Shigella flexneri* virulence factor downregulates caspases activity through the degradation of intracellular ATP" C. Ambrosi, L. Peruzza, E. Rottoli, F. Strati, M. Sarshar, A.T. Palamara, C. Zagaglia, F. Grassi, M. Nicoletti and **D. Scribano**

12th International symposium on the Biology of Acinetobacter Frankfurt 2019

"Fatal attraction: *Acinetobacter baumannii* exploits carinoembryonic antigen-related cell adhesion molecules (CEACAMs) for cellular adherence" **D. Scribano**, M. Sarshar, C. Zagaglia, A.T. Palamra, B.B. Singer, C. Ambrosi

47° Congresso SIM Roma 2019

"Insights into the periplasmic proteins of *Acinetobacter baumannii* AB5075 and the impact of imipenem exposure: a proteomic approach" **Scribano D.**, Marzano V., Levi Mortera S., Sarshar M., Vernocchi P., Zagaglia C., Putignani L., Palamara A.T., Ambrosi C.

"Fatal attraction: *Acinetobacter baumannii* exploits carinoembryonic antigen-related cell adhesion molecules (CEACAMs) for cellular adherence" **D. Scribano**, M. Sarshar, C. Zagaglia, A.T. Palamara, B.B. Singer, C. Ambrosi

48° Congresso Virtual SIM 2020

"D-mannose treatment neither affects uropathogenic *Escherichia coli* properties nor induces stable FimH modifications" **D. Scribano**, M. Sarshar, C. Prezioso, M. Lucarelli, A. Angeloni, C. Zagaglia, A.T. Palamara and C. Ambrosi

"Applications of Organoid Technology" Symposium Online 2021

"Intestinal organoid modeling for intestinal bacterial competition assay" Ambrosi, C., Sarshar, M., Pronio A., Palamara, A.T., **Scribano, D.**

49° Congresso Virtual SIM 2021

"Intestinal organoid modeling for intestinal bacteria competition assay" Ambrosi, C., Sarshar, M., Pronio A., Zagaglia C., Palamara, A.T., **Scribano, D.**

"Adaptive strategies of uropathogenic *Escherichia coli* CFT073: From growth in lab media to virulence during host cell adhesion" Sarshar M., **Scribano D.**, Limongi D., Zagaglia C., Palamara, A.T., Ambrosi, C.

5th International Caparica Conference in Antibiotic Resistance Caparica Portogallo 2022

"Genomic analysis and antimicrobial resistance profile of two extensively drug-resistant *Acinetobacter baumannii* isolates" C Zagaglia, **D Scribano**, M Marazzato, M Sarshar, F Brunetti, AT Palamara, C Ambrosi

30th International CEA Symposium Essen 2022

Acinetobacter baumannii interaction with carinoembryonic antigen-related cell adhesion molecules (CEACAMs). **D. Scribano**, C Ambrosi

50° Congresso SIM Napoli 2022

"The *Shigella flexneri* virulence factor apyrase is released inside eukaryotic cells to manipulate host cell fate"
 Perruzza L, Sarshar M, Strati F, Vitiello L, Zagaglia C, Grassi F, Nicoletti M, Palamara AT, Ambrosi C and **Scribano D**.

13th Symposium on the Biology of Acinetobacter Coimbra 2023

The protein HslJ boosts *Acinetobacter baumannii* survival against oxidative stress C Ambrosi, M Sarshar, M Pasqua, C Zagaglia, AT Palamara, **D Scribano**

Acinetobacter baumannii OmpA-like porins: functional characterization in bacterial physiology, antibiotic-resistance, and virulence **D Scribano**, E Cheri, A Pompilio, G Di Bonaventura, M Belli,

M Cristina, L Sansone, C Zagaglia, M Sarshar, AT Palamara, C Ambrosi

Phenotypic and genotypic characterization of *Acinetobacter baumannii* clinical isolates: yesterday and today AD.

Tagueha, **D Scribano**, C D'Agostini, C Fiorilla, M Sarshar, D Limongi, S Iannarelli, Z Miciakova, AT Palamara, C Ambrosi

51° Congresso SIM Cagliari 2023

The protein HslJ boosts *Acinetobacter baumannii* survival against oxidative stress C Ambrosi, M Sarshar, M Pasqua, C Zagaglia, AT Palamara, **D Scribano**

Acinetobacter baumannii OmpA-like porins: functional characterization in bacterial physiology, antibiotic-resistance, and virulence **D Scribano**, E Cheri, A Pompilio, G Di Bonaventura, M Belli,

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Phenotypic and genotypic characterization of *Acinetobacter baumannii* clinical isolates: yesterday and today AD.

Tagueha, **D Scribano**, C D'Agostini, C Fiorilla, M Sarshar, D Limongi, S Iannarelli, Z Miciakova, AT Palamara, C Ambrosi

52° Congresso SIM Pavia 2024

Evolutionary dynamics and comparative analysis of *Acinetobacter baumannii* clinical isolates: insight from phenotypic and genomic approaches Astri Dwyanti Tagueha¹, **Daniela Scribano**, Cartesio D'Agostini, Carlotta Fiorilla, Carlo Zagaglia, Dolores Limongi, Silvia Iannarelli, Anna Teresa Palamara, Cecilia Ambrosi.

BRIEF RÉSUMÉ

I started my scientific career at the Prof. Nicoletti laboratory, the Bacteriology lab of the Department of Public Health and Infectious Diseases of the Sapienza University of Rome. We studied host-bacteria interactions by using the human pathogen *Shigella flexneri* as a model microorganism. We described the role of three different virulence factors involved in the pathogenesis of *S. flexneri*. The collaboration with the research group of Prof. Grassi at the Research Institute of Biomedicine of Bellinzona in Switzerland resulted in two scientific publications on the regulation of enteric T helper lymphocyte maturation mediated by the extracellular ATP released by intestinal microbiota. In the Bacteriology lab supervised by Prof. Anna Teresa Palamara, we characterized *Escherichia coli* isolates associated to adenomatous colon polyps, focusing on the study of virulence factors of bacteria belonging to intestinal microbiota. Furthermore, we are currently collaborating with Dr. Andrea Masotti, at the Bambino Gesù pediatric hospital in Rome, by characterizing the role of microRNAs released by eukaryotic cells on the physiology of *E. coli* isolated from celiac patients. It is well known that *E. coli* species reflects an enormous diversity of strains that possess a variety of fitness and / or virulence factors that make them capable to colonize different tissues. Hence, we moved on the study of uropathogenic *E. coli* strains, with particular attention on the mechanisms through which anti-virulence strategies can contribute to reduce the incidence of urinary infections caused by these strains.

Dealing with the worldwide problem of the antimicrobial resistance, we are studying the pathogen *Acinetobacter baumannii*, a multi-resistant bacterium, which causes lung infections in patients admitted to intensive care units and in patients undergoing mechanical ventilation. We are characterizing both its pathogenesis (the mode of interaction with lung epithelial cells) and its mechanisms of antibiotic resistance in order to find alternative therapeutic strategies.

Trattamento dei dati personali Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali.

