

## PERSONAL INFORMATION

Daniela Scribano



## WORK EXPERIENCE

01/07/2018–Present

**Biologist**

Sapienza University of Rome  
P.le A. Moro 5, 00185 Rome (Italy)  
[www.dspmi.uniroma1.it](http://www.dspmi.uniroma1.it)

Research Activity, title: "IDENTIFICATION OF NEW MOLECULES AND / OR INNOVATIVE THERAPEUTIC STRATEGIES TARGETED AT OVERCOMING THE ANTIBIOTIC-RESISTANCE OF BACTERIA CAUSING NOSOCOMIAL INFECTIONS"

Teaching , Professionalising and Tutorial Activities within the course of Microbiology in the Faculty of Pharmacy and Medicine.

**Business or sector** Professional, scientific and technical activities

01/05/2018–30/06/2018

**Biologist**

Institute for Research in Biomedicine  
Via Vincenzo Vela 6, CH-6500 Bellinzona (Switzerland)  
[www.irb.usi.ch](http://www.irb.usi.ch)

Guest Scientist in the Prof. Grassi Lab.

Research activity: "New animal model to study *Shigella* infection"

**Business or sector** Professional, scientific and technical activities

25/05/2015–28/02/2018

**Biologist**

Sapienza University of Rome  
Piazzale A. Moro 5, 00185 Rome (Italy)  
[www.uniroma1.it](http://www.uniroma1.it)

Teaching , Professionalising and Tutorial Activities within the course of Microbiology in the Faculty of Pharmacy and Medicine.

**Business or sector** Education

01/02/2014–28/02/2018

**Biologist**

Sapienza University of Rome  
Piazzale A. Moro 5, 00185 Rome (Italy)  
[www.dspmi.uniroma1.it](http://www.dspmi.uniroma1.it)

Academic research activity: "Role of *phoN2* gene in the pathogenetic mechanism of *Shigella flexneri* and the autophagic response".

**Business or sector** Professional, scientific and technical activities

02/01/2013–31/12/2013

**Biologist**

Sapienza University of Rome  
Piazzale A. Moro 5, 00185 Rome (Italy)

[www.dspmi.uniroma1.it](http://www.dspmi.uniroma1.it)

Academic research activity: "Study of the role of *phoN2* gene in the pathogenetic mechanism of *Shigella flexneri*".

Business or sector Professional, scientific and technical activities

02/01/2010–02/01/2012

### Biologist

Sapienza University of Rome  
Piazzale A. Moro 5, 00185 Rome (Italy)  
[www.dspmi.uniroma1.it/](http://www.dspmi.uniroma1.it/)

Academic research activity: "Study of the role of *ospB-phoN2* operon in the pathogenetic mechanism of *Shigella flexneri*".

Business or sector Professional, scientific and technical activities

## ADDITIONAL INFORMATION

### Publications

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

- Outer membrane protein A (OmpA): a new player in *Shigella flexneri* protrusion formation and inter-cellular spreading" PLoSOne. 2012 Ambrosi C, Pompili M, **Scribano D**, Zagaglia C, Ripa S, Nicoletti M. **IF 3.730**
- Polar localization of PhoN2, a periplasmic virulence-1 associated factor of *Shigella flexneri*, is required for proper IcsA exposition at the old bacterial pole" PLoS One. 2014 D. Scribano, A. Petrucca, M. Pompili, C. Ambrosi, E. Bruni, C. Zagaglia, G. Prosseda, L. Nencioni, M. Casalino, F. Polticelli, and M. Nicoletti. **IF 3.234**
- The *Shigella flexneri* OspB effector: an early immunomodulator" Int J Med Microbiol. 2015 C. Ambrosi, M. Pompili, **D. Scribano**, D. Limongi, A. Petrucca, S. Cannavacciuolo, C. Zagaglia, S. Schippa, M. Grossi, and M. Nicoletti. **IF 3.521**
- Human polyomavirus JC presence in chronic inflammatory rheumatic diseases patients treated with anti-TNF- $\alpha$ : Evaluation of JC viral loads in urine and plasma samples" Joint Bone Spine. 2015 A. Bellizzi, M. Mischitelli, E. Anzivino, R. Scrivo, D. M. Rodio, **D. Scribano**, F. Cacciotti, S. Cioccolo, S. Delbue, G. Valesini, and V. Pietropaolo. **IF 2.946**
- Increased prevalence of Human Polyomavirus JC viremia in Chronic Inflammatory Rheumatic Diseases patients in treatment with anti-TNF  $\alpha$ : a 18 month follow-up study" Front Microbiol. 2016 D.M. Rodio, E. Anzivino, A. Bellizzi, M. Mischitelli, G. Conte, R. Scrivo, **D. Scribano**, M. Trancassini, G. Valesini, A.T. Palamara, and V. Pietropaolo. **IF 4.076**
- First case report of invasive pseudoterranoviasis in Italy." Parasitol Int. 2016 Cavallero S, **Scribano D**, and D'Amelio S. **IF 1.744**
- The *Shigella flexneri* OmpA amino acid residues 188EVQ190 are essential for the interaction with the virulence factor PhoN2" Biochemistry and Biophysics Reports. 2016 **Scribano D**, Damico R, Ambrosi C, Superti F, Marazzato M, Conte MP, Longhi C, Palamara AT, Zagaglia C, and Nicoletti M.
- Molecular characterization of Extensively Drug-Resistant *Acinetobacter baumannii*: first report of a new sequence type in Italy" JGAR. 2016 C. Ambrosi, M. Aleandri, A. Giordano, **D. Scribano**, M. Marazzato, C. Zagaglia, M.P. Conte and A.T. Palamara. **IF 1.276**
- T Follicular Helper Cells Promote a Beneficial Gut Ecosystem for Host Metabolic Homeostasis by Sensing Microbiota-Derived Extracellular ATP" Cell Reports. 2017 L. Perruzza, G. Gargari, M. Proietti, B. Fosso, A.M. D'Erchia, C.E. Faliti, T. Rezzonico-Jost, **D. Scribano**, L. Mauri, D. Colombo, G. Pellegrini, A. Moregola, C. Mooser, G. Pesole, M. Nicoletti, G.D. Norata, M.B. Geuking, K.D. McCoy, S. Guglielmetti and F. Grassi. **IF 8.032**
- Genetic diversity, phylogroup distribution and virulence gene profile of pks positive *Escherichia coli* colonizing human intestinal polyps" Microb Pathog. 2017 Sarshar M, **Scribano D**, Marazzato M, Ambrosi C, Aprea MR, Aleandri M, Pronio A, Longhi C, Nicoletti M, Zagaglia C, Palamara AT, Conte MP. **IF 2.332**
- *Acinetobacter baumannii* Virulence Traits: A Comparative Study of a Novel Sequence Type with

- Other Italian Endemic International Clones." Front Microbiol. 2017 Ambrosi C, **Scribano D**, Aleandri M, Zagaglia C, Di Francesco L, Putignani L, Palamara AT. **IF 4.019**
- Efficient propagation of archetype JC polyomavirus in COS-7 cells: evaluation of rearrangements within the NCCR structural organization after transfection" Arch Virol. 2017 C. Prezioso, **D. Scribano**, A. Bellizzi, E. Anzivino, D.M. Rodio, M. Trancassini, A.T. Palamara, V. Pietropaolo. **IF 2.160**
  - COS-7-based model: methodological approach to study John Cunningham virus replication cycle." Virology Journal 2018 C. Prezioso, **D. Scribano**, D.M. Rodio, C. Ambrosi, M. Trancassini, A.T. Palamara, V. Pietropaolo. **IF 2.465**
  - *YERSINIA ENTEROCOLITICA* IN ITALY: A CASE OF SEPTICEMIA AND AORTIC ANEURYSM INFECTION" Frontiers in Microbiology 2017 D. M. Rodio, A. Bressan, **D. Scribano**, C. Ambrosi, R. Tolti, W. Mansour, F. Speziale, G. Antonelli, M. Trancassini and V. Pietropaolo.
  - Cutaneous candidiasis caused by *Candida albicans* in a young non-immunosuppressed patient: an unusual presentation. Int J Immunopathol Pharmacol. 2018 Palese E, Nudo M, Zino G, Devirgiliis V, Carbotti M, Cinelli E, Rodio DM, Bressan A, Prezioso C, Ambrosi C, **Scribano D**, Pietropaolo V, Fioriti D, Panasiti V. **IF 2.117**
  - ATP released by intestinal bacteria limits the generation of protective IgA against enteropathogens. Nature Communication 2019 M. Proietti, L. Perruzza, **D. Scribano**, G. Pellegrini, R. D'Antuono, F. Strati, M. Raffaelli, S. F. Gonzales, M. Thelen, W.D. Hardt, E. Slack, M. Nicoletti, F. Grassi **IF 12.353**
  - Colonic adenomatous polyps drive mucosa-associated *Escherichia coli* phenotypes. Microbes and Infection 2019 C. Ambrosi, M. Sarshar, M. R. Aprea, A. Pompilio, G. Di Bonaventura, F. Strati, A. Pronio, M. Nicoletti, C. Zagaglia, A. T. Palamara, **D. Scribano** **IF 2.669**
  - 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 AT, Ambrosi C. Int J Mol Sci. 2019 **IF 4.183**
  - A simple, fast and reliable scan-based technique as a novel approach to quantify intracellular bacteria. Sarshar M, **Scribano D**, Tranquilli G, Di Pietro M, Filardo S, Zagaglia C, Sessa R, Palamara AT, Ambrosi C. BMC Microbiol. 2019 **IF 3.287**
  - **Scribano D**, Sarshar M, Prezioso C, Lucarelli M, Angeloni A, Zagaglia C, Palamara AT, Ambrosi C. Molecules. 2020 **IF 3.060**

#### Publications Books chapters:

- Microbiologia Medica 3ed Chapter 76 (edited by CEA)
- Virologia Medica Appendix (edited by CEA)

#### Memberships

- 2009-present Member of the Italian Society of Microbiology (SIM)
- 2009-2013 Member of the Italian Society of General Microbiology and Microbial Biotechnologies (SIMGBM)

#### Projects

- PRIN project: 2009KJ9SRT 003 Scientific responsible: CASALINO Mariassunta Title: "Role of *Stenotrophomonas maltophilia* in cystic fibrosis: a molecular approach for the characterization of virulence factors and their effect on the immune response."
- PRIN project: 2009KJ9SRT 002 Scientific responsible: NICOLETTI Mauro Title: "Study of *ospB-phoN2* operon in the pathogenetic mechanism of *Shigella flexneri*: characterization of the role of OspB effector in the innate immune response and PhoN2 in the *IcsA* polar localization"
- PRIN project: 2012WJSX8K\_006 Scientific responsible: NICOLETTI Mauro Title: "Interaction models between microorganisms and host in mucosal infections to develop innovative therapeutic strategies"
- Ministry of Health project 2015 Scientific responsible: PALAMARA Anna Teresa Title "Study of microbial and polymicrobial contamination of oxygen masks used in pulmonary rehabilitation"

#### Conferences

National and International Congresses with a total of 23 scientific contributions.

Oral communication:

- 38°SIM Congress 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°SIM Congress 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°SIM Congress 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

#### 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°SIMGBM Congress 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°SIMGBM Congress Pisa 2013 "Determinants of protein stability and folding: the *Shigella flexneri* periplasmic ATP-diphosphohydrolase story" **D.Scribano**, A.Petrucca, M.Pompili, C.Ambrosi, E.Bruni, F.Polticelli, C.Zagaglia, and M.Nicoletti
- 42°SIM Torino Congress 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°SIM Congress Napoli 2015 "Identification of critical residues for OmpA-PhoN2 binding" **Scribano D.**, Damico R., Ambrosi C., Zagaglia C., and Nicoletti M.
- 44° SIM Congress 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.
- 45° Congress Genova 2017 "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  
 "*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  
 Assessment 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 SIM Congress 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 devices 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. Perruzza, E. Rottoli, F. Strati, M. Sarshar, A.T. Palamara, C. Zagaglia, F. Grassi, M. Nicoletti and **D. Scribano**

- 12<sup>th</sup> 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 SIM Congress 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

**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.

**Honours and awards**

- Fems Travel Grant to participate at the 46° SIM Congress
- Mario Campa Award, First Classified Bacteriology Section 47° SIM Congress