Europass Curriculum Vitae

Personal information

First name / Surname **Marisa Di Pietro**
Department of Public Health and Infectious Diseases, P.le Aldo Moro, 5,00185, Rome, Italy

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Occupational field

Researcher of Hygiene and Applied Hygiene (MED 42), Faculty of Pharmacy and Medicine, "Sapienza" University

Work experience

2009 - today — Researcher, Faculty of Pharmacy and Medicine,"Sapienza" University

Main activities and responsibilities — Main research interests are represented by host-bacteria interactions in several models of Chlamydia infections of which some aspects, both experimental and clinic have been studied. In particular, the attention has been focused on i) characterization of host defence mechanisms in the genital *Chlamydia trachomatis* infection ii) characterization of etiopathogenic mechanisms of *Chlamydia pneumoniae* in the development and progression of atherosclerosis with identification of natural antioxidants in the prevention and formation of atherosclerotic plaque induced by Chlamydia.
Additional studies have focused on the identification of new antimicrobial molecules.

Teaching
Hygiene in the Medicine School and in Nursing of "Sapienza" University

Name and address of employer — Department of Public Health and Infectious Diseases, "Sapienza" University, P.le A. Moro, 5, 00185 Rome

Sector — Scientific Research and Education

2000 – 2009 — Fellow researcher

Main activities and responsibilities — Characterization of circulating blood monocytes as a vehicle for systemic dissemination of *Chlamydia pneumoniae* from lungs to extra-pulmonary sites

Name and address of employer — Department of Public Health Sciences, "Sapienza" University, P.le A. Moro, 5, 00185 Rome

Sector — Scientific Research

November 1996 - November 1999	PhD student
Main activities and responsibilities	Working in the Sessa's research group on the role of *Chlamydia pneumoniae* in the pathogenesis of atherosclerosis: seroepidemiological and pathological studies
Name and address of employer	Department of Public Health Sciences, "Sapienza" University, P.le A. Moro 5 00185 Rome
Sector	Scientific research

Education and training

March 2000	PhD in Microbiology and Epidemiology "Sapienza" University
July 2003	Graduated in Pharmacy "Sapienza" University
March 1990	Graduated in Chemistry and Pharmaceutical Technology "Sapienza" University

Personal skills and competences

Mother tongue: Italian

Other language

Self-assessment

European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B	2	B	2	B	2	B	2	B	2

(*) Common European Framework of Reference for Languages

1. **Di Pietro M**, Filardo S, Frasca F, Scagnolari C, Manera M, Sessa V, Antonelli G, Sessa R. Interferon-γ possesses anti-microbial and immunomodulatory activity on a Chlamydia trachomatis infection model of primary human Synovial fibroblasts. Microorganisms 2020**;** *8*(2): 235.
2. Sarshar M, Scribano D, Tranquilli G, **Di Pietro M**, Filardo S, Zagaglia C , Sessa R, Palamara AT, Ambrosi C. A simple, fast and reliable scan-based technique as a novel approach to quantify intracellular bacteria. BMC Microbiol 2019; 19 (1), 252.
3. Lollobrigida M, Filardo S, Sessa R, **Di Pietro M**, Bozzuto G, Molinari A, Lamazza L, Vozza I , De Biase A. Antibacterial activity and impact of different antiseptics on biofilm-contaminated implant surfaces. Applied Sciences 2019; 9. DOI: 10.3390/app9245467
4. Filardo S, **Di Pietro M**, Tranquilli G, Latino MA, Recine N, Porpora MG, Sessa R. Selected Immunological Mediators and Cervical Microbial Signatures in Women with *Chlamydia trachomatis* Infection. mSystems. 2019;4(4). pii: e00094-19. doi: 10.1128/mSystems.00094-19.
5. **Di Pietro M**, Filardo S, Romano S, Sessa R. *Chlamydia trachomatis* and *Chlamydia pneumoniae* Interaction with the Host: Latest Advances and Future Prospective. Microorganisms. 2019;7(5). pii: E140. doi: 10.3390/microorganisms7050140
6. Filardo S, Skilton RJ, O'Neill CE, **Di Pietro M**, Sessa R, Clarke IN. Growth kinetics of *Chlamydia trachomatis* in primary human Sertoli cells. Sci Rep. 2019 Apr 10;9(1):5847. doi:10.1038/s41598-019-42396-3.
7. Filardo S, **Di Pietro M**, Tranquilli G, Sessa R. Biofilm in Genital Ecosystem: A Potential Risk Factor for *Chlamydia trachomatis* Infection. Can J Infect Dis Med Microbiol. 2019 Jan 22;2019:1672109. doi: 10.1155/2019/1672109.
8. **Di Pietro M**, Filardo S, Porpora MG, Recine N, Latino MA, Sessa R. HPV/*Chlamydia trachomatis* co-infection: metagenomic analysis of cervical microbiota in asymptomatic women. New Microbiol. 2018 Jan;41(1):34-41.
9. Filardo S, **Di Pietro M**, Porpora MG, Recine N, Farcomeni A, Latino MA, Sessa R. Diversity of Cervical Microbiota in Asymptomatic *Chlamydia trachomatis* Genital Infection: A Pilot Study. Front Cell Infect Microbiol. 2017;7:321.
10. Sessa R, **Di Pietro M**, Filardo S, Bressan A, Mastromarino P, Biasucci AV, Rosa L, Cutone A, Berlutti F, Paesano R, Valenti P. Lactobacilli-Lactoferrin interplay in *Chlamydia trachomatis* infection. Pathog Dis. 2017 May 15. doi: 10.1093/femspd/ftx054.
11. Sessa R, **Di Pietro M**, Filardo S, Bressan A, Rosa L, Cutone A, Frioni A, Berlutti F, Paesano R, Valenti P. Effect of bovine lactoferrin on *Chlamydia trachomatis* infection and inflammation. Biochemistry and Cell Biology, 2017 Feb;95(1):34-40. doi: 10.1139/bcb-2016-0049. Epub 2016 Oct 21
12. **Di Pietro M**, Filardo S, Falasca F, Turriziani O, Sessa R. Infectious Agents in atherosclerotic Cardiovascular Diseases through Oxidative Stress. Int J Mol Sci. 2017 Nov 18;18(11). pii: E2459.
13. Sessa R, **Di Pietro M**, Filardo S, Bressan A, Mazzuti L, Serafino S, Fantauzzi A, Turriziani Lack of association of *Chlamydia pneumoniae* with cardiovascular diseases in virologically suppressed HIV patients. New Microbiol. New Microbiol. 2017 Jan;40(1):33-37. Epub 2016 Nov 7
14. Filardo S, **Di Pietro M**, Schiavoni G, Minniti G, Ortolani E, Romano S, Sessa S. *Chlamydia pneumoniae* clinical isolate from gingival crevicular fluid: a potential atherogenic strain. Front Cell Infect Microbiol. 2015;5:86.
15. Filardo S, **Di Pietro M**, Farcomeni A, Schiavoni G, Sessa R. *Chlamydia pneumoniae*-Mediated Inflammation in Atherosclerosis: A Meta-Analysis. Mediators Inflamm. 2015;2015:378658.
16. Sessa R, **Di Pietro M,** De Santis F, Filardo S, Ragno R, Angiolella L. Effects of Mentha suaveolens Essential Oil on *Chlamydia trachomatis.* Biomed Res Int. 2015;2015:508071.
17. **Di Pietro M**, Filardo S, De Santis F, Mastromarino P, Sessa R. *Chlamydia pneumoniae* and oxidative stress in cardiovascular disease: state of the art and prevention strategies. Int J Mol Sci. 2014;16(1):724-35.
18. Sessa R, **Di Pietro M**, Filardo S, Turriziani O. Infectious burden and atherosclerosis: A clinical issue. World J Clin Cases. 2014; 2(7):240-9.
19. Mastromarino P, **Di Pietro M,** Schiavoni G, Nardis C, Gentile M, Sessa R**.** Effects of vaginal lactobacilli in Chlamydia trachomatis infection. Int J Med Microbiol. 2014;304:654-61.
20. Guarino MP, Sessa R, Altomare A, Cocca S, **Di Pietro M**, Carotti S, Schiavoni G, Alloni R, Emerenziani S, Morini S, Severi C, Cicala M. Human colonic myogenic dysfunction induced by mucosal lipopolysaccharide translocation and oxidative stress. Dig Liver Dis. 2013; 45(12):1011-6.
21. **Di Pietro M**, Filardo S, De Santis F, Sessa R. *Chlamydia pneumoniae* Infection in Atherosclerotic Lesion Development through Oxidative Stress: A Brief Overview. Int J Mol Sci. 2013;14(7):15105-20.
22. **Di Pietro M**, De Santis F, Schiavoni G, Filardo S, Sessa R. Resveratrol in *Chlamydia pneumoniae*-induced foam cell formation and interleukin-17A synthesis. J Biol Regul Homeost Agents. 2013;27(2):509-18.
23. **Di Pietro M**, Filardo S, De Santis F, Sessa R. New insights into Chlamydiae persistence: an energy metabolism strategy? Int J Immunopathol Pharmacol. 2013; 26(2):525-8.
24. **Di Pietro M**, Filardo S, Cazzavillan S, Segala C, Bevilacqua P, Bonoldi E, D'Amore ES, Rassu M, Sessa R. Could past Chlamydial vascular infection promote the dissemination of *Chlamydia pneumoniae* to the brain? J. Biol. Regul. Homeost. Agents 2013; 27(3): 155-64
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27. **Di Pietro M**, Tramonti A, De Santis F, De Biase D, Schiavoni G, Filardo S, Zagaglia C, Sessa R. Analysis of gene expression in penicillin G induced persistence of *Chlamydia pneumoniae*. J Biol Regul Homeost Agents. 2012;26(2):277-84.
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42. Romano S., Fratini S., **Di Pietro M.,** Schiavoni G., Nicoletti M., Chiarotti F., Del Piano M., Penco M., Sessa R. *Chlamydia pneumoniae* infection in patients with acute coronary syndrome: a clinical and serological 1-year follow-up. Int J Immunopathol Pharmacol. 2004;17(2):209-18

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