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- **BIOGRAPHY:**

Laureata in Medicina con specializzazione in Biochimica Clinica e Biologia Molecolare presso l'Università "Federico II" di Napoli, diventa Ricercatrice presso la stessa Università, assumendo la responsabilità di Laboratori nel campo delle Biotecnologie.

Qualificata con la funzione di Professore Associato, dal 2015 insegna presso il Corso di Laurea in Biotecnologie Mediche per il corso di diagnostica avanzata.

ESPERIENZE RECENTI

- **Università Federico II, Napoli / In corso**

Ricercatrice in Biochimica Clinica e Biologia Molecolare presso il Dipartimento di Medicina Molecolare e Biotecnologie Mediche

- **CEINGE Biotecnologie Avanzate, Napoli / Aprile 2011 – In corso**

Ricercatrice e Responsabile delle attività diagnostiche molecolari

PUBBLICAZIONI ACCADEMICHE

1. Ferrucci V, de Antonellis P, Pennino FP, Asadzadeh F, Virgilio A, Montanaro D, Galeone A, Boffa I, Pisano I, Scognamiglio I, Navas L, Diana D, Pedone E, Gargiulo S, Gramanzini M, Brunetti A, Danielson L, Carotenuto M, Liguori L, Verrico A, Quaglietta L, Errico ME, Del Monaco V, **D'Argenio V**, Tirone F, Mastronuzzi A, Donofrio V, Giangaspero F, Picard D, Remke M, Garzia L, Daniels C, Delattre O, Swartling FJ, Weiss WA, Salvatore F, Fattorusso R, Chesler L, Taylor MD, Cinalli G, Zollo M. Metastatic group 3 medulloblastoma is driven by PRUNE1 targeting NME1- TGF- β -OTX2-SNAIL via PTEN inhibition. Brain. 2018 Feb 27. doi: 10.1093/brain/awy039. [Epub ahead of print]

2. Bergougnoux A*, **D'Argenio V***, Sollfrank S*, Verneau F, Telese A, Postiglione I, Lackner KJ, Claustres M, Castaldo G, Rossman H, Salvatore F, Raynal C. Multicenter validation study for the certification of a CFTR gene scanning method using next generation sequencing

technology. Clin Chem Lab Med. 2018 Feb 10. doi: 10.1515/cclm-2017-0553. [Epub ahead of print].

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3. D'Argenio V. The High-Throughput Analyses Era: Are We Ready for the Data Struggle? High Throughput. 2018 Mar 2;7(1)

4. D'Argenio V. Human Microbiome Acquisition and Bioinformatic Challenges in Metagenomic Studies. Int. J. Mol. Sci. 2018, 19, 383.

5. Iaffaldano L, Nardelli C, D'Alessio F, D'Argenio V, Nunziato M, Mauriello L, Procaccini C, Maruotti GM, Martinelli P, Matarese G, Pastore L, Del Vecchio L, Labruna G, Sacchetti L. Altered Bioenergetics Profile in Umbilical Cord and Amniotic Mesenchymal Stem Cells from Newborns of Obese Women. Stem Cells Dev. 2018; 27:199-206.

6. D'Argenio V, Del Monaco V, Paparo L, De Palma FDE, Nocerino R, D'Alessio F, Visconte F, Discepolo V, Del Vecchio L, Salvatore F, Berni Canani R. Altered miR-193a-5p expression in children with cow's milk allergy. Allergy 2018; 73: 379-386.

7. Nunziato M, Starnone F, Lombardo B, Pensabene M, Condello C, Verdesca F, Carlomagno C, De Placido S, Pastore L, Salvatore F, D'Argenio V. Fast Detection of a BRCA2 Large Genomic Duplication by Next Generation Sequencing as a Single Procedure: A Case Report. Int J Mol Sci. 2017;18(11).

8. Cariati F, Savarese M, D'Argenio V, Salvatore F, Tomaiuolo R. The SEeMORE Strategy: Single-tube Electrophoresis analysis- based genotyping to detect MONogenic diseases Rapidly and Effectively from conception until birth. Clin Chem Lab Med. doi: 10.1515/cclm-2017-0147.

9. De Palma GD, Colavita I, Zambrano G, Giglio MC, Maione F, Luglio G, Sarnelli G, Rispo A, Schettino P, D'Armiento FP, De Palma FDE, D'Argenio V, Salvatore F. Detection of Colonic Dysplasia in Patients With Ulcerative Colitis Using a Targeted Fluorescent Peptide and Confocal Laser Endomicroscopy: A pilot Study. PlosOne. 2017;12:e0180509.

10. D'Argenio V, Torino M, Precone V, Casaburi G, Esposito MV, Iaffaldano L, Malapelle U, Troncone G, Coto I, Cavalcanti P, De Rosa G, Salvatore F, Sacchetti L. The Cause of Death of a Child in the 18th Century Solved by Bone Microbiome Typing Using Laser Microdissection and Next Generation Sequencing. Int J Mol Sci. 2017;18.

11. Nardelli C, Granata I, Iaffaldano L, D'Argenio V, Del Monaco V, Maruotti GM, Omodei D, Del Vecchio L, Martinelli P, Salvatore F, Guarracino MR, Sacchetti L, Pastore L. MiR-138/miR-222 over- expression characterizes the miRNome of amniotic mesenchymal stem cells in obesity. Stem Cells Dev. 2017;26:4-14

12. Nardelli C, Granata I, Iaffaldano L, D'Argenio V, Del Monaco V, Maruotti GM, Del Vecchio L, Martinelli P, Salvatore F, Guarracino MR, Sacchetti L, Pastore L. Sex-comparative analysis of the miRNome of human amniotic stem cells during obesity. Stem Cells Dev 2017;26:1-3.

13. **D'Argenio V**, Petrillo M, Pasanisi D, Pagliarulo C, Colicchio R, Talà A, de Biase MS, Zanfardino M, Scolamiero E, Pagliuca C, Gaballo A, Cicatiello AG, Cantiello P, Postiglione I, Naso B, Boccia A, Durante M, Cozzuto L, Salvatore P, Paoletta G, Salvatore F, Alifano P. The complete 12 Mb genome and transcriptome of *Nonomurea gerenzanensis* with new insights into its duplicated "magic" RNA polymerase. *Sci Rep*. 2016;6:18.

14. Esposito MV, Nunziato M, Starnone F, Telese A, Calabrese A, D'Aiuto G, Pucci P, D'Aiuto M, Baralle F, **D'Argenio V***, Salvatore F*. A Novel Pathogenic BRCA1 Splicing Variant Produces Partial Intron Retention in the Mature Messenger RNA. *Int J Mol Sci*. 2016;17.

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15. **Valeria D'Argenio**, Giorgio Casaburi, Vincenza Precone, Chiara Pagliuca, Roberta Colicchio, Daniela Sarnataro, Valentina Discepolo, Sangman M. Kim, Ilaria Russo, Giovanna Del Vecchio Blanco, David S. Horner, Matteo Chiara, Graziano Pesole, Paola Salvatore, Giovanni Monteleone, Carolina Ciacci, Gregory J. Caporaso, Bana Jabri, Francesco Salvatore, Lucia Sacchetti. No change in the mucosal gut mycobioma is associated with celiac disease-specific microbiota alteration in adult patients. *Am J Gastroenterol* 2016;111:1659-1661.

16. Paparo L, Nocerino R, Cosenza L, Aitoro R, **D'Argenio V**, Del Monaco V, Di Scala C, Amoroso A, Di Costanzo M, Salvatore F, Berni Canani R. Epigenetic features of FoxP3 in children with cow's milk allergy. *Clin Epigenetics* 2016;8:86.

17. **Valeria D'Argenio**, Giorgio Casaburi, Vincenza Precone, Chiara Pagliuca, Roberta Colicchio, Daniela Sarnataro, Valentina Discepolo, Sangman M. Kim, Ilaria Russo, Giovanna Del Vecchio Blanco, David S. Horner, Matteo Chiara, Graziano Pesole, Paola Salvatore, Giovanni Monteleone, Carolina Ciacci, Gregory J. Caporaso, Bana Jabri, Francesco Salvatore, Lucia Sacchetti. Metagenomics Reveals Dysbiosis and a Potentially Pathogenic *N. flavescens* Strain in duodenum of Adult Celiac Patients. *Am J Gastroenterol* 2016;111:879-90.

18. V Precone, V Del Monaco, MV Esposito, F De Palma, A Ruocco, F Salvatore, **V D'Argenio**. Cracking the code of human diseases using next-generation sequencing: applications, challenges and perspectives. *Biomed Res Int* 2015;2015:161648.

19. **D'Argenio V**, Esposito MV, Telese A, Precone V, Starnone F, Nunziato M, Cantiello P, Iorio M, Evangelista E, D'Aiuto M, Calabrese A, Frisso G, D'Aiuto G, Salvatore F. The molecular analysis of BRCA1 and BRCA2: Next-generation sequencing supersedes conventional approaches. *Clin Chim Acta* 2015;446:221-5.

20. Berni Canani R, Paparo L, Nocerino R, Cosenza L, Pezzella V, Di Costanzo M, Capasso M, Del Monaco V, **D'Argenio V**, Greco L, Salvatore F. Differences in DNA methylation profile of Th1 and Th2 cytokine genes are associated with tolerance acquisition in children with IgE-mediated cow's milk allergy. *Clin Epigenetics* 2015;7:38.

21. Conti V, Russomanno G, Corbi G, Toro G, Simeon V, Filippelli W, Ferrara N, Grimaldi M, **D'Argenio V**, Maffulli N, Filippelli A. A polymorphism at the translation start site of the vitamin

d receptor gene is associated with the response to anti-osteoporotic therapy in postmenopausal women from southern Italy. *Int J Mol Sci* 2015;16:5452-5466.

22. Errico F*, **D'Argenio V***, Sforazzini F, Iasevoli F, Squillace M, Guerri G, Napolitano F, Angrisano T, Di Maio A, Keller S, Vitucci D, Galbusera A, Chiariotti L, Bertolino A, de Bartolomeis A, Salvatore F, Gozzi A, Usiello A. A role for D-aspartate oxidase in schizophrenia and in schizophrenia-related symptoms induced by phencyclidine in mice. *Transl Psychiatry* 2015;5:e512.

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23. D'Argenio V, Salvatore F. The role of the gut microbiome in the healthy adult status. *Clin Chim Acta* 2015. doi:10.1016/j.cca.2015.01.003.

24. Valeria D'Argenio, Eugenio Notomista, Mauro Petrillo, Piergiuseppe Cantiello, Valeria Cafaro, Viviana Izzo, Barbara Naso, Luca Cozzuto, Lorenzo Durante, Luca Troncone, Giovanni Paoella, Francesco Salvatore, Alberto Di Donato. Complete sequencing of *Novosphingobium* sp. PP1Y reveals a biotechnologically meaningful metabolic pattern. *BMC Genomics* 2014. 15:384.

25. Aceto S, Sica M, De Paolo S, **D'Argenio V**, Cantiello P, Salvatore F, Gaudio L. The Analysis of the Inflorescence miRNome of the Orchid *Orchis italica* Reveals a DEF-Like MADS-Box Gene as a New miRNA Target. *PLoS One* 2014; 9:e97839.

26. Valeria D'Argenio, Giorgio Casaburi, Vincenza Precone, Francesco Salvatore. Comparative Metagenomic Analysis of Human Gut Microbiome Composition Using Two Different Bioinformatic Pipelines. *Biomed Res Int* 2014; 2014:325340.

27. Valeria D'Argenio, Maria Valeria Esposito, Jean Ann Gilder, Giulia Frisso, Francesco Salvatore. Should a BRCA2 Stop Codon Human Variant, Usually Considered a Polymorphism, Be Classified as a Predisposing Mutation? *Cancer* 2014;120:1594-5.

28. V D'Argenio, G Frisso, V Precone, A Boccia, A Fienga, G Pacileo, G Limongelli, G Paoella, Raffaele Calabrò, F Salvatore. DNA sequence capture and next generation sequencing for the molecular diagnosis of genetic cardiomyopathies. *J Mol Diagn* 2014; 16:32-44.

29. V D'Argenio, V Precone, G Casaburi, E Miele, M Martinelli, A Staiano, F Salvatore, L Sacchetti. An Altered Gut Microbiome Profile in a Child Affected by Crohn's Disease Normalized After Nutritional Therapy. *American Journal of Gastroenterology* 2013;108(5):851-2. doi: 10.1038/ajg.2013.46.

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31. Sanna V, Zarrilli F, Nardiello P, **D'Argenio V**, Rocino A, Coppola A, Di Minno G, Castaldo G. Mutational spectrum of F8 gene and prothrombotic gene variants in haemophilia A patients from Southern Italy. *Haemophilia* 2008; 14: 796-803. IF=3.2; Citations =9

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TOTAL IF: 143,2; AVERAGE IF: 4,47; N. Citations: 324; H index:12.

First o co-fist author in 16 publications.

Last o co-corresponding author in 5 publications.

Publications on National Peer-reviewed Journals

1. **V. D'Argenio**, M. Nunziato, N. D'Uonno, F. Borrillo, R. Vallone, A. Conforti, P. De Rosa, R. Tomaiuolo, F. Cariati. Indications and limitations for preimplantation genetic diagnosis. Biochimica Clinica 2017;41:314-321.

2. **D'Argenio V**, Tomaiuolo R, Cariati F. Whole genome amplification on single cell. Biochimica Clinica 2016;40:293-301.

3. **V D'Argenio**, F Salvatore. Psoriasis genetics: State of the art. G Ital Dermatol Venereol 2014;149 (suppl 5):39-41.

4. Fabrizio Stoppoloni, Edoardo Tartaglia, Giancarlo Balbi, Pasquale Pirillo, Sergio Schettini, Alfonso Galderisi, Rocco Paradiso, Mario Passaro, Pasquale Vadalà, Nadia Tinto, **Valeria D'Argenio**, Marina Capuano, Teresa Sena, Pietro Iacobelli, Francesco Prisco, Pasquale Mastrantonio, Lucia Sacchetti, Dario Iafusco. Il Diabete in Gravidanza: dall'Iperglicemia alla Patogenesi. Gyneco AOGOI 2011;2:25-7.