

# Lucrezia Zerillo

## EXPERIENCE

### Apollosa (BN)

Nov 2022 - Present

### Researcher

Genus Biotech

Mar 2021 - Nov 2022

### Fellowship

University of Sannio

### Naples

2017 - 2020

### PhD

Department of Molecular Medicine and Medical Biotechnology, University of Naples "Federico II"

Nov 2014 - Feb 2016

### Master's Degree training

Ceinge

2012 - 2012

### Bachelor's Degree training

Biogem

## EDUCATION

- 2020

### PhD in Molecular Medicine and Medical Biotechnology

University of Naples "Federico II"

Thesis: The role of Synj1 in membrane trafficking and its impact in PARK20 pathogenesis. Supervisor: Prof. Simona Paladino.

- 2016

### Master's Degree in Medical Biotechnology

University of Naples "Federico II"

Final Grade: 110/110 cum laude. Thesis: MiR199b-5p, a therapeutic microRNA in the glioma. Supervisor: Prof. Massimo Zollo.

- 2013

### Bachelor's Degree in "Biotechnology"

University of Sannio

Final Grade: 110/110 cum laude and mentioned career. Thesis: The genetic bases of circadian rhythms. Supervisor: Prof. Pasquale Vito.

## LANGUAGES

### Italian

native language

### English

Advanced

## SKILLS

Growth and maintenance of eukaryotic cell cultures, transfections, FACS analysis; cell viability assays; RNA extraction and purification; real-time PCR; plasmid DNA extraction, blood DNA extraction, gel electrophoresis; bacterial transformation and induction of competent cells; signal transduction and protein analysis; immunoprecipitation and co-precipitation assays; gene cloning; immunofluorescence microscopy; proficiency in Microsoft applications; utilization of bioinformatics programs (databases, alignment tools).

## ACHIEVEMENTS

- ABCD National PhD meeting 2018, Salerno, Italy; 22-24 March, 2018. Participation at the meeting and poster presentation.
- ABCD Meeting "Membrane Tracking and Organelle Biogenesis" 2018, Sorrento, Italy; 14-15 October, 2018. Participation at the meeting and oral communication
- FEBS Special Meeting. "The 2018 Golgi meeting: Membrane tracking in cell organization and homeostasis". Sorrento, Italy; 15-19 October, 2018. Participation at the meeting and poster presentation
- VIII Meeting Neapolitan Brain Group. Naples, Italy; 13 December 2018. Participation at the meeting, one of authors of oral communication .
- National Meeting of PhD Students in Neuroscience 2019. Naples, Italy; 1 March, 2019. Participation at the meeting and poster presentation.
- ABCD National Congress. Bologna, Italy; 19-21 September, 2019. Participation at the meeting and poster presentation.
- IX Meeting Neapolitan Brain Group. Naples, Italy; 12 December 2019. Participation at the meeting and poster presentation.
- SINS PhD Meeting Webinar. 29-30 September 2020. Participation and oral communication.
- Training course for the use of the Illumina MiSeqDX instrument, 11-12 October 2022
- XVI FISV Congress. Naples, Italy, 14-16 September 2022
- Genetics 200 years after the birth of Mendel: past, present and future, Rome, Italy, 6-7 December 2022
- Regenerative medicine meets foot and ankle surgery. Caserta, Italy, 9 September 2023. Participation at the meeting and oral communication
- XVII FISV Congress. Padua, Italy 18-20 September 2024. Participation at the meeting and oral communication

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## PUBLICATIONS

Zerillo L., Polvere I., Stilo R., Vito P., Rinaldi M., Zotti T., & Costagliola C. (2024). Diverse effects of synthetic glucocorticoid species on cell viability and stress response of neuroblastoma cells. *Neuroscience*, 554, 110. <https://doi.org/10.1016/j.neuroscience.2024.07.010>

Zerillo, L., Coletta, C. C., Madera, J. R., Grasso, G., Tutela, A., Vito, P., Stilo, R., & Zotti, T. (2024). Extremely low frequency-electromagnetic fields promote chondrogenic differentiation of adipose-derived mesenchymal stem cells through a conventional genetic program. *Scientific reports*, 14(1), 10182.

Giannaccare G, Vaccaro S, Borselli M, Rossi C, Carnovale Scalzo G, Scalia G, Di Cesare Mannelli L, Ghelardini C, Zerillo L, Polvere I, Vito P, Zotti T, Stilo R, Scoria V. A Novel Ophthalmic Solution Containing Glicopro Complex for the Treatment of Patients with Dry Eye Disease: Results from a Pilot Study. *J Clin Med*. 2024 Mar 1.

De Rosa L, Fasano D, Zerillo L, Valente V, Izzo A, Mollo N, Amodio G, Polishchuk E, Polishchuk R, Melone MAB, Criscuolo C, Conti A, Nitsch L, Remondelli P, Pierantoni GM, Paladino S. Down Syndrome Fetal Fibroblasts Display Alterations of Endosomal Trafficking Possibly due to SYNJ1 Overexpression. *Front Genet*. 2022 May.

Polvere I, Parrella A, Zerillo L, Voccola S, Cardinale G, D'Andrea S, Madera JR, Stilo R, Vito P, Zotti T. Humoral Immune Response Diversity to Different COVID-19 Vaccines: Implications for the "Green Pass" Policy. *Front Immunol*. 2022 May 11.

Mollo N, Aurilia M, Scognamiglio R, Zerillo L, Cicatiello R, Bonfiglio F, Pagano P, Paladino S, Conti A, Nitsch L and Izzo A. Overexpression of the Hsa21 Transcription Factor RUNX1 Modulates the extracellular Matrix in Trisomy 21 Cells. *Frontiers in Genetics*. 10 March 2022

Polvere I, Voccola S, D'Andrea S, Zerillo L, Varricchio R, Madera JR, Stilo R, Vito P, Zotti T. Evaluation of FAST COVID-19 SARS-CoV-2 Antigen Rapid Test Kit for Detection of SARS-CoV-2 in Respiratory Samples from Mildly Symptomatic or Asymptomatic Patients. *Diagnostics*. 2022; 12(3):650.

Zerillo L, Polvere I, Varricchio R, Madera JR, D'Andrea S, Voccola S, Franchini I, Stilo R, Vito P, Zotti T. Antibiofilm and repair activity of ozonated oil in liposome. *Microb Biotechnol.* 2021 Nov 12.

Polvere I, Silvestri E, Sabatino L, Giacco A, Iervolino S, Peluso T, Guida R, Zerillo L, Varricchio R, D'Andrea S, Voccola S, Madera JR, Zullo A, Stilo R, Vito P, Zotti T. Sample-Pooling Strategy for SARS-CoV-2 Detection among Students and Staff of the University of Sannio. *Diagnostics (Basel).* 2021 Jun 26;11(7):1166.

Polvere I, Voccola S, Parrella A, Cardinale G, Zerillo L, Varricchio R, Madera JR, Stilo R, Vito P, Zotti T. A Peptide-Based Assay Discriminates Individual Antibody Response to the COVID-19 Pfizer/BioNTech mRNA Vaccine. *Vaccines (Basel).* 2021 Sep 3;9(9):987.

Mazzone P, Congestri M, Scudiero I, Polvere I, Voccola S, Zerillo L, Telesio G, Vito P, Stilo R, Zotti T. UBAC1/KPC2 Regulates TLR3 Signaling in Human Keratinocytes through Functional Interaction with the CARD14/CARMA2sh-TANK Complex. *Int J Mol Sci.* 2020 Dec 9;21(24):9365.

Amodio G, Moltedo O, Fasano D, Zerillo L, Oliveti M, Di Pietro P, Faraonio R, Barone P, Pellecchia MT, De Rosa A, De Michele G, Polishchuk E, Polishchuk R, Bonifati V, Nitsch L, Pierantoni GM, Renna M, Criscuolo C, Paladino S\* and Remondelli P. PERK-mediated Unfolded Protein Response activation and oxidative stress in PARK20 fibroblasts. *Front. Neurosci.* 13:673. (2019) \*co-corresponding

Mollo N, Nitti M, Zerillo L, Faicchia D, Micillo T, Accarino R, Secondo A, Petrozziello T, Cali G, Cicatiello R, Bonfiglio F, Sarnataro V, Genesio R, Izzo A, Pinton P, Matarese G, Paladino S, Conti A, Nitsch L. Pioglitazone Improves Mitochondrial Organization and Bioenergetics in Down Syndrome Cells. *Front Genet.* 10:606. (2019)

Io sottoscritto dichiaro sotto la mia responsabilità, ai sensi del D.P.R. n. 445/2000, che le informazioni fornite in questo Curriculum Vitae sono veritiere e accurate. Autorizzo inoltre il trattamento dei miei dati personali in conformità con il Regolamento UE 2016/679 (GDPR) e le normative vigenti in materia di protezione dei dati.