

CURRICULUM VITAE – SARA DI RADO

PERSONAL INFORMATION

Name: Sara Di Rado
Date of Birth: 26 February 1997
Nationality: Italian
Email: sara.dirado@phd.unich.it
Phone: (+39) 327 617 1770

PROFESSIONAL EXPERIENCE

Ph.D. in Biomolecular and Pharmaceutical Sciences Internship

November 2023-Present
Supervisor Prof.ssa Valentina Gatta - “G. d'Annunzio” University, Chieti-Pescara, Italy

Medical Genetics Residency Internship

March 2023 – Present
Supervisor Prof.ssa Valentina Gatta - “G. d'Annunzio” University, Chieti-Pescara, Italy

Research Fellowship – Project: “*Validation of viral genome sequencing methods*”

August 2022 – February 2023
Supervisor Prof. Liborio Stuppia - “G. d'Annunzio” University, Chieti-Pescara, Italy

Research Fellowship – Project: “*Genetic analysis of genes involved in Congenital Adrenal Hyperplasia and Androgen Insensitivity Syndrome*”

February 2022 – July 2022
Supervisor Prof. Liborio Stuppia – “G. d'Annunzio” University, Chieti-Pescara, Italy

Research Fellowship – Project: “*Application of Next Generation Sequencing (NGS) technology to study genes involved in sexual development disorders (DSDs)*”

July 2021 – January 2022
Supervisor Prof. Liborio Stuppia – “G. d'Annunzio” University, Chieti-Pescara, Italy

Master's Thesis Internship – Project: “*Application of NGS technology to study genes involved in sexual development disorders (DSDs)*”

October 2020 – October 2021
Supervisor Prof. Liborio Stuppia – “G. d'Annunzio” University, Chieti-Pescara, Italy

Bachelor's Thesis Internship – Project: “*Characterization of a peptide derived from the PI3K γ enzyme as a CFTR activator*”

November 2018 – November 2019
Supervisor: Prof. Alessandra Ghigo, Molecular Biotechnology Center, University of Turin, Italy

EDUCATION AND TRAINING

Ph.D. in Biomolecular and Pharmaceutical Sciences

November 2023 – Present
“G. d'Annunzio” University, Chieti-Pescara, Italy

Medical Genetics Residency

March 2023 – Present
“G. d'Annunzio” University, Chieti-Pescara, Italy

Master's Degree in Reproductive Biotechnologies (LM-9)

March 2020 – October 2021

University of Teramo, Italy

Final Grade: 110/110 cum laude

Bachelor's Degree in Biotechnology (L-2)

October 2016 – March 2020

University of Turin, Italy

Final Grade: 97/110

LANGUAGE SKILLS

Italian – Native

English – Independent (B2 Level):

TECHNICAL AND LABORATORY SKILLS

- Cell culture
- DNA extraction
- PCR
- QF-PCR
- RT-PCR
- Sanger sequencing
- Pyrosequencing
- Next Generation Sequencing (NGS): Clinical Exome, Targeted Gene Panels, NIPT, carrier screening
- Array-CGH
- Bioinformatics tools

CERTIFICATIONS AND TECHNICAL TRAINING

- “VeriSeq NIPT Solution v2” – Illumina Inc. (July 2023)
- “CytoScan Dx Application Training – Analysis” – ThermoFisher Scientific (May 2023)
- “NextSeq 550 Dx-RUO” – Illumina Inc. (January 2023)
- “3500 RUO and SeqStudio Instruments Operation” – ThermoFisher Scientific (May 2021)

PUBBLICATIONS

Pilenzi, L., Scorrano, V., Di Rado, S., Buccolini, C., Giansante, R., Siciliani, L., Stuppia, L., Gatta, V., & Capalbo, A. (2026). Expanded Carrier Screening: Current Evidence and Future Directions in the Era of Population Genomics. *Genes*, 17(1), 58. <https://doi.org/10.3390/genes17010058>

Ferrante R, Tumini S, Saltarelli MA, Di Rado S, Scorrano V, Tommolini ML, Zucchelli M, Lauriola F, Lisi G, Lauriti G, Marino N, Stuppia L, Rossi C, Bucci I. “*A Very Early Diagnosis of Complete Androgen Insensitivity Syndrome Due to a Novel Variant in the AR Gene: A Neonatal Case Study*”. *Biomedicines*. 2024 Aug 2;12(8):1742. doi: 10.3390/biomedicines12081742. PMID: 39200206; PMCID: PMC11351560.

Luongo FP, Luddi A, Ponchia R, Ferrante R, Di Rado S, Paccagnini E, Gentile M, Lupetti P, Guazzo R, Orrico A, Stuppia L, Piomboni P. “*Case report: The CCDC103 variant causes ultrastructural sperm axonemal defects and total sperm immotility in a professional athlete without primary ciliary dyskinesia*”. *Front Genet*. 2023 Jan 26;14:1062326. doi: 10.3389/fgene.2023.1062326. PMID: 36777727; PMCID: PMC9908957.

Di Rado S, Giansante R, Cicirelli M, Pilenzi L, Dell'Elice A, Anaclerio F, Rimoldi M, Grassadonia A, Grossi S, Canale N, Ballerini P, Stuppia L, Antonucci I. “*Detection of Germline Mutations in a Cohort of 250 Relatives of Mutation Carriers in Multigene Panel: Impact of Pathogenic Variants in Other Genes beyond*

BRCA1/2". *Cancers* (Basel). 2023 Dec 6;15(24):5730. doi: 10.3390/cancers15245730. PMID: 38136276; PMCID: PMC10741895.

Rossi C, Ferrante R, Valentinuzzi S, Zucchelli M, Buccolini C, Di Rado S, Trotta D, Stuppia L, Federici L, Aricò M. "Noninvasive DBS-Based Approaches to Assist Clinical Diagnosis and Treatment Monitoring of Gaucher Disease". *Biomedicines*. 2023 Sep 29;11(10):2672. doi: 10.3390/biomedicines11102672. PMID: 37893047; PMCID: PMC10604114.

Franzago M, Pilenzi L, Di Rado S, Vitacolonna E, Stuppia L. "The epigenetic aging, obesity, and lifestyle". *Front Cell Dev Biol*. 2022 Sep 13;10:985274. doi: 10.3389/fcell.2022.985274. PMID: 36176280; PMCID: PMC9514048.

POSTER PRESENTATION

"Identification of rare microdeletions of ASTN2 gene in two patients with autistic spectrum disorder: a case report"

Accepted poster - XXVIII CONGRESSO NAZIONALE SIGU - Rimini, ottobre 2025

Giansante R, Di Rado S, Alessandrelli E, Notarangelo S, Konstantinidou F, Gatta V, Stuppia L

"From Biochemistry to Genetics: identification of a new variant of the AR gene associated with Androgen Insensitivity Syndrome (AIS)"

Poster presenter - XXVII CONGRESSO NAZIONALE SIGU – Padova, ottobre 2024 (accepted poster)

S. Di Rado, V. Scorrano, R. Ferrante, M.L. Tammoloni, S. Tumini, A. Saltarelli, G. Lisi, G. Lauriti, L. Stuppia, D. Pieragostino, L. Federici, I. Antonucci, C. Rossi, I. Bucci

"Detection of germline mutations in a cohort of 250 relatives of mutation carriers in multigene panel: impact of pathogenic variants in other genes beyond BRCA1/2"

Poster presenter - XXVI CONGRESSO NAZIONALE SIGU - Rimini, 4-6 ottobre 2023 (accepted poster)

S. Di Rado, R. Giansante, M. Cicirelli, L. Pilenzi, A. Dell'Elice, F. Anaclerio, M. Rimoldi, L. Stuppia, I. Antonucci

"A family case of Gaucher disease by a multidisciplinary approach for lysosomal storage diseases"

Accepted poster - XXVI CONGRESSO NAZIONALE SIGU - Rimini, 4-6 ottobre 2023

Buccolini C, Ferrante R, Di Rado S, Cicalini I, Cufaro M.C., Zucchelli M, Tammoloni M.L., Pieragostino D, Rossi C, Aricò M, Trotta D, Antonucci I, De Laurenzi V, Stuppia L

"A novel nonsense mutation in TGFBR1 gene was detected in a family with Heritable thoracic aortic disease: a case report"

Accepted poster - XXVI CONGRESSO NAZIONALE SIGU - Rimini, 4-6 ottobre 2023

I. Angilletta, S. Di Rado, M. Cicirelli, I. Antonucci, R. Giansante

"KBG Syndrome: A de novo pathogenetic variant detected by a NGS multi-gene panel"

Accepted poster - XXVI CONGRESSO NAZIONALE SIGU - Rimini, 4-6 ottobre 2023

A. Dell'Elice, R. Giansante, M. Cicirelli, E. Palumbo, S. Di Rado, R. Ferrante, L. Stuppia

NETWORKS & MEMBERSHIPS

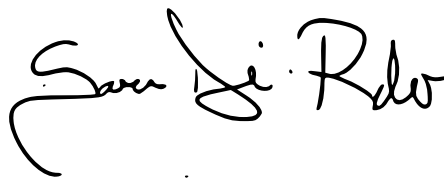
- Member, National Order of Biologists – Section A (since Feb 2022)
- Member, Italian Society of Human Genetics (SIGU) (since Mar 2022)

AFFILIATIONS

- Center for Advanced Studies and Technology (CAST), "G. d'Annunzio" University of Chieti-Pescara, 66100 Chieti, Italy.
- Unit of Molecular Genetics, Center for Advanced Studies and Technology (CAST), "G. d'Annunzio" University of Chieti-Pescara, 66100 Chieti, Italy.

- Department of Medical and Oral Sciences and Biotechnologies, University "G. d'Annunzio", Chieti, Italy.
- Department of Neurosciences, Imaging and Clinical Sciences, University "G. d'Annunzio", Chieti, Italy.

Chieti, 29-06-26

A handwritten signature in black ink, reading "Sara Di Rado". The signature is fluid and cursive, with the first name "Sara" and last name "Di Rado" clearly distinguishable.