PERSONAL INFORMATION

Roberta Romano

Date of birth: 07 February 1991

EDUCATION AND TRAINING

Nov 2021–Present PhD Student

Department of Translational Medical Sciences, Pediatrics, University of Naples "Federico II", School of Medicine, Naples (Italy) Supervisor prof. Giancarlo Parenti).

02 Nov 2016– Nov 2021 Pediatrics Resident

University of Naples "Federico II" School of Medicine, Naples (Italy)

Grade 50/50 magna cum laude. Clinical diagnosis and treatment of childhood diseases focusing on rare disease (inborn errors of immunity and inborn errors of metabolism). Ranked in the top twenty in the Italian public competition for Pediatrics Graduate Program.

WORK EXPERIENCE

June 2023-Present Fixed-time Pediatric Immunologist,
Azienda ospedaliera universitaria, "Federico II"

Research collaborator in the project "Implementation of an Italian Network for advanced diagnosis and targeted treatment of Inborn errors of Immunity" (PNRR-MR1-2022-12376594)
Diagnosis and management of in- and out-patient adult and children patients affected by inborn errors of Immunity

Jan 2022-May 2023 Primary care pediatrician on duty

National Health System, Local Health Authority, Naples (Italy)
Diagnosis and treatment of childhood diseases requiring outpatient management.

2 Nov 2016–2 Nov 2021 Pediatrics Resident

University of Naples "Federico II" School of Medicine, Naples (Italy)

Clinical diagnosis and treatment of childhood diseases requiring hospitalization and outpatient management, focusing on rare diseases.

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
	TOEFL Examination Level C1				
Spanish	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Honours Junior Member of European Society for Immunodeficiencies (ESID)

Secretary of the Italian Society for Pediatric Research (SIRP).

Courses ESID Summer School, Barcelona, May 2024

ESID Diagnostic Workshop, Freiburg, December 2023

ESCGT Spring School, Giens, March 2023

ESID/ERN-RITA Workshop From high throughput sequencing to diagnosis in immune mediated disorders, May 2022

Basic Life Support for Physicians, Italian Red Cross, Naples March 2024
Pediatric Advanced Life Support, American Heart Association, Naples June 2021

Projects

Sub-investigator “Prospective, open-label, single-arm, multicentre Phase 3 study to evaluate the pharmacokinetics, efficacy, tolerability, and safety of subcutaneous human immunoglobulin (Newnorm) in patients with primary immunodeficiency

Sub-investigator Trial "Gene therapy in Patients with mucopolysaccharidosis disease". Coordinating Center University of Naples "Federico II", Italy.

Syndrome". Coordinating Center Hopital Antoine Beclere, Clamart, France

Presentations (speaker)

Pediatricians’ view on warning signs of inborn errors of immunity
SIRP National Congress, Naples,
June 2024
Inborn errors of immunity and Neurology
Giovani Immunologi- Educational program
Webinar January 2024

Results of the questionnaire on warning signs for Primary Immunodeficiencies, Pediatria a Napoli, Naples, January 2020
Identification of a missense variant of TLR3 gene in a case of familial herpetic Encephalitis, Italian Primary Immunodeficiencies Network, Bologna, May 2019
Respiratory manifestations in patients with Inborn errors of Immunity, Giornata di Ricerca pediatrica DISMET, December 2019

Publications **Papers**

1. Cirillo E, Tarallo A, Toriello E, Carissimo A, Giardino G, De Rosa A, Damiano C, Soresina A, Badolato R, Dellepiane RM, Baselli LA, Carrabba M, Fabio G, Bertolini P, Montin D, Conti F, **Romano R**, Pozzi E, Ferrero G, Roncarati R, Ferracin M, Brusco A, Parenti G, Pignata C. MicroRNA dysregulation in ataxia telangiectasia. Front Immunol. 2024 Aug 19;15:1444130. doi: 10.3389/fimmu.2024.1444130. PMID: 39224604; PMCID: PMC11366618.
2. Giardino G, Lanni V, Mascolo M, Russo D, Cirillo E, Romano R, Cillo F, Grilli L, Prencipe MR, Iuliano A, Uccello G, De Fusco C, Menna G, Scalia G, Portella G, Pignata C. Case report: EBV-related eye orbits and sinuses lymphohistiocytic infiltration responsive to rituximab in a patient with X lymphoproliferative syndrome type 1. Front Immunol. 2024 Apr 3;15:1370991. doi: 10.3389/fimmu.2024.1370991. PMID: 38633254; PMCID: PMC11021630.
3. Coppola E, Sgrulletti M, Cortesi M, **Romano R**, Cirillo E, Giardino G, Dotta L, Cancrini C, Bruzzese D, Badolato R, Moschese V, Pignata C in collaboration with IEI-VCS Task Force. The Inborn Errors of Immunity—Virtual Consultation System Platform in Service for the Italian Primary Immunodefciency Network: Results from the Validation Phase J Clin Immunol. 2024 Jan https://doi.org/10.1007/s10875-023-01644-y
4. Rossini L, Ricci S, Montin D, Azzari C, Gambineri E, Tellini M, Conti F, Pession A, Saettini F, Naviglio S, Valencic E, Magnolato A, Baselli L, Azzolini S, Consolini R, Leonardi L, D'Alba I, Carraro E, Romano R, Melis D, Stagi S, Cirillo E, Giardino G, Biffi A, Pignata C, Putti MC, Marzollo A. Immunological Aspects of Kabuki Syndrome: A Retrospective Multicenter Study of the Italian Primary Immunodeficiency Network (IPINet). J Clin Immunol. 2024 Apr 27;44(5):105. doi: 10.1007/s10875-024-01676-y. PMID: 38676773.
5. Saettini F, Guerra F, Fazio G, Bugarin C, McMillan HJ, Ohtake A, Ardissone A, Itoh M, Giglio S, Cappuccio G, Giardino G, **Romano R,** Quadri M, Gasperini S, Moratto D, Chiarini M, Akira I, Fukuhara Y, Hayakawa I, Okazaki Y, Mauri M, Piazza R, Cazzaniga G, Biondi A. Antibody Deficiency in Patients with Biallelic KARS1 Mutations. J Clin Immunol. 2023 Nov;43(8):2115-2125. doi: 10.1007/s10875-023-01584-7. Epub 2023 Sep 28. Erratum in: J Clin Immunol. 2023 Nov 3;: PMID: 37770806.
6. Juliá-Palacios N, Olivella M, Sigatullina Bondarenko M, Ibáñez-Micó S, Muñoz-Cabello B,

Alonso-Luengo O, Soto-Insuga V, García-Navas D, Cuesta-Herraiz L, Andreo-Lillo P, Aguilera-Albesa S, Hedrera-Fernández A, González Alguacil E, Sánchez-Carpintero R, Martín Del Valle F, Jiménez González E, Cean Cabrera L, Medina-Rivera I, Perez-Ordoñez M, Colomé R, Lopez L, Engracia Cazorla M, Fornaguera M, Ormazabal A, Alonso-Colmenero I, Illescas KS, Balsells-Mejía S, Mari-Vico R, Duffo Viñas M, Cappuccio G, Terrone G, Romano R, Manti F, Mastrangelo M, Alfonsi C, de Siqueira Barros B, Nizon M, Gjerulfsen CE, Muro VL, Karall D, Zeiner F, Masnada S, Peterlongo I, Oyarzábal A, Santos-Gómez A, Altafaj X, García-Cazorla Á. L-serine treatment in patients with GRIN-related encephalopathy: a phase 2A, non-randomized study. Brain. 2024 May 3;147(5):1653-1666. doi: 10.1093/brain/awae041. PMID: 38380699.

7. D'Antiga L, Beuers U, Ronzitti G, Brunetti-Pierri N, Baumann U, Di Giorgio A, Aronson S, Hubert A, **Romano R**, Junge N, Bosma P, Bortolussi G, Muro AF, Soumoudronga RF, Veron P, Collaud F, Knuchel-Legendre N, Labrune P, Mingozzi F. Gene Therapy in Patients with the Crigler-Najjar Syndrome. N Engl J Med. 2023 Aug 17;389(7):620-631. doi: 10.1056/NEJMoa2214084. PMID: 37585628.

8. Xie L, McDaniel MJ, Perszyk RE, Kim S, Cappuccio G, Shapiro KA, Muñoz-Cabello B, Sanchez-Lara PA, Grand K, Zhang J, Nocilla KA, Sheikh R, Armengol L, **Romano R**, Pierson TM, Yuan H, Myers SJ, Traynelis SF. Functional effects of disease-associated variants reveal that the S1-M1 linker of the NMDA receptor critically controls channel opening. Cell Mol Life Sci. 2023 Mar 31;80(4):110. doi: 10.1007/s00018-023-04705-y. PMID: 37000222.

9. Giardino G, **Romano R**, Lougaris V, Castagnoli R, Cillo F, Leonardi L, La Torre F, Soresina A, Federici S, Cancrini C, Pacillo L, Toriello E, Cinicola BL, Corrente S, Volpi S, Marseglia GL, Pignata C, Cardinale F; Immunology Task Force of the Italian Society of Pediatric Allergy and Immunology (SIAIP). Immune tolerance breakdown in inborn errors of immunity: Paving the way to novel therapeutic approaches. Clin Immunol. 2023 Jun;251:109302. doi: 10.1016/j.clim.2023.109302. Epub 2023 Mar 24. PMID: 36967025.

10. Liotti A, Ferrara AL, Loffredo S, Galdiero MR, Varricchi G, Di Rella F, Maniscalco GT, Belardo M, Vastano R, Prencipe R, Pignata L, **Romano R**, Spadaro G, de Candia P, Pezone A, De Rosa V. Epigenetics: An opportunity to shape innate and adaptive immune responses. Immunology. 2022 Dec;167(4):451-470. doi: 10.1111/imm.13571. Epub 2022 Sep 26. PMID: 36043705.

11. Brunetti-Pierri N, Ferla R, Ginocchio VM, Rossi A, Fecarotta S, **Romano R**, Parenti G et al. Liver-Directed Adeno-Associated Virus–Mediated Gene Therapy for Mucopolysaccharidosis Type VI. New England Journal of Medicine Evidence. June 2022 https://doi.org/10.1056/EVIDoa2200052

12. **Romano R**, Cillo F, Moracas C, Pignata L, Nannola C, Toriello E, De Rosa A, Cirillo E, Coppola E, Giardino G, Brunetti-Pierri N, Riccio A, Pignata C. Epigenetic Alterations in Inborn Errors of Immunity. J Clin Med. 2022 Feb 25;11(5):1261. doi: 10.3390/jcm11051261. PMID: 35268351; PMCID: PMC8910960.

13. **Romano R**, Borrelli M, Cirillo E, Giardino G, Spadaro G, Crescenzi L, Mormile I, Venditto L, Pignata C, Santamaria F. Respiratory Manifestations in Primary Immunodeficiencies: Findings From a Pediatric and Adult Cohort. Arch Bronconeumol (Engl Ed). 2021 Feb 5:S0300-2896(21)00041-7. English, Spanish. doi: 10.1016/j.arbres.2021.01.019. Epub ahead of print. PMID: 33678477.

14. Giardino G, **Romano R**, Coppola E, Cillo F, Borzachiello C, De Luca M, Palamaro L, Toriello E, Prencipe R, Cirillo E, Pignata C. SARS-CoV-2 Infection in the Immunodeficient Host: Necessary and Dispensable Immune Pathways. J Allergy Clin Immunol Pract. 2021 Sep;9(9):3237-3248. doi: 10.1016/j.jaip.2021.06.045. Epub 2021 Jul 15. PMID: 34273582; PMCID: PMC8279920.

15. **Romano R**, Giardino G, Cirillo E, Prencipe R, Pignata C. Complement system network in cell physiology and in human diseases. Int Rev Immunol. 2020 Oct 16:1-12. doi: 10.1080/08830185.2020.1833877. Epub ahead of print. PMID: 33063546.

16. Cirillo E, Giardino G, Ricci S, Moschese V, Lougaris V, Conti F, Azzari C, Barzaghi F, Canessa C, Martire B, Badolato R, Dotta L, Soresina A, Cancrini C, Finocchi A, Montin D, **Romano R**, Amodio D, Ferrua F, Tommasini A, Baselli LA, Dellepiane RM, Polizzi A, Chessa L, Marzollo A, Cicalese MP, Putti MC, Pession A, Aiuti A, Locatelli F, Plebani A, Pignata C. Consensus of the Italian Primary Immunodeficiency Network on transition management from pediatric to adult care in patients affected with childhood-onset inborn

errors of immunity. J Allergy Clin Immunol. 2020 Aug 19:S0091-6749(20)31165-9. doi: 10.1016/j.jaci.2020.08.010. Epub ahead of print. PMID: 32827505.

17. Cirillo E, Prencipe MR, Giardino G, **Romano R**, Scalia G, Genesio R, Nitsch L, Pignata C. Clinical Phenotype, Immunological Abnormalities, and Genomic Findings in Patients with DiGeorge Spectrum Phenotype without 22q11.2 Deletion. J Allergy Clin Immunol Pract. 2020 Oct;8(9):3112-3120. doi: 10.1016/j.jaip.2020.06.051. Epub 2020 Jul 12. PMID: 32668295.

18. Giardino G, Borzacchiello C, De Luca M, **Romano R**, Prencipe R, Cirillo E, Pignata C. T-Cell Immunodeficiencies With Congenital Alterations of Thymic Development: Genes Implicated and Differential Immunological and Clinical Features. Front Immunol. 2020 Aug 14;11:1837. doi: 10.3389/fimmu.2020.01837. PMID: 32922396; PMCID: PMC7457079.

19. Comentale G, Giordano R, Pilato E, D'Amore A, **Romano R**, Simeone S, Browning R, Palma G, Iannelli G. "The heart supporters": systematic review for ventricle assist devices in congenital heart surgery. Heart Fail Rev. 2020 Nov;25(6):1027-1035. doi: 10.1007/s10741-019-09892-0. PMID: 31734755.

20. **Romano R,** Grasso F, Gallo V, Cirillo E, Prencipe R, Mamone G, Mollica C, Ursini VM, De Ville De Goyet J, Pignata C, Giardino G. A case of incontinentia pigmenti associated with congenital absence of portal vein system and nodular regenerative hyperplasia. Br J Dermatol. 2019 Mar;180(3):674-675. doi: 10.1111/bjd.17319. Epub 2018 Dec 2. PMID: 30328117.

21. Giardino G, De Luca M, Cirillo E, Palma P, **Romano R**, Valeriani M, Papetti L, Saunders C, Cancrini C, Pignata C. Two Brothers with Atypical *UNC13D*-Related Hemophagocytic Lymphohistiocytosis Characterized by Massive Lung and Brain Involvement. Front Immunol. 2017 Dec 21;8:1892. doi: 10.3389/fimmu.2017.01892. PMID: 29312353; PMCID: PMC5742579.

22. Cirillo E, Giardino G, Gallo V, Galasso G, **Romano R**, D'Assante R, Scalia G, Del Vecchio L, Nitsch L, Genesio R, Pignata C. DiGeorge-like syndrome in a child with a 3p12.3 deletion involving MIR4273 gene born to a mother with gestational diabetes mellitus. Am J Med Genet A. 2017 Jul;173(7):1913-1918. doi: 10.1002/ajmg.a.38242. Epub 2017 Apr 24. PMID: 28436605.

23. **Romano R**, Cirillo E, Giardino G, Gallo V, Mollica C, Pignata C. A Bronchovascular Anomaly in a Patient With 22q11.2 Deletion Syndrome. J Investig Allergol Clin Immunol. 2016;26(6):390-392. doi:10.18176/jiaci.0107

24. Giardino G, Gallo V, Prencipe R, Gaudino G, **Romano R**, De Cataldis M, Lorello P, Palamaro L, Di Giacomo C, Capalbo D, Cirillo E, D'Assante R, Pignata C. Unbalanced Immune System: Immunodeficiencies and Autoimmunity. Front Pediatr. 2016;4:107. Published 2016 Oct 6. doi:10.3389/fped.2016.00107.

25. Cirillo E, Giardino G, Gallo V, D'Assante R, Grasso F, **Romano R**, Di Lillo C, Galasso G, Pignata C. Severe combined immunodeficiency-an update. Ann N Y Acad Sci. 2015;1356:90-106. doi:10.1111/nyas.12849

I declare herein that the information reported in this CV are exact and trustworthy.

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