Personal information

Giovanna Gallo

[redacted]

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Gender: Female | Date of birth: 29/07/1980 | Nationality: Italian

Work experience

Permanent contract since 03/04/2018:
Clinical biochemistry specialist in the Extended Newborn Screening sector at CEINGE-Biotecnologie Avanzate Gaetano Salvatore S.C. a r.l., Via Gaetano Salvatore 486, Naples (NA).
Appointed supervisor in May 2022
Has been employed at the Manager level of the Confcommercio Tertiary and Services National Collective Bargaining Agreement since February 2024.

From 16/10/2017 to 31/03/2018:
Coordinated and Continuous Collaboration Contract for a "graduate diagnostic laboratory operator, expert level" with the following title: "Laboratory diagnostics activities with regard to extended newborn screening procedures for metabolic diseases and monitoring of results, according to the methodologies and procedures required by the relevant technical and regulatory requirements."
At CEINGE, Biotecnologie Avanzate S.C. a r.l., Via Gaetano Salvatore no. 486, Naples (NA)

From 22/04/2016 to 31/12/2016:
Researcher.
Scholarship for participation in the training course entitled: "Training Course in the Design, Development, and Production of Functional and/or Enriched Foods."
At CEINGE, Advanced Biotechnology S.C. a r.l., Via Gaetano Salvatore 486, Naples (NA)

From 10/09/2015 to 31/12/2015:
Researcher.
Project collaboration contract titled: "Evaluation of genomic variants for the study of inherited diseases, through large-scale analysis of genomic sequences."
At CEINGE, Advanced Biotechnology S.C. a r.l., Via Gaetano Salvatore n. 486, Naples (NA)

From 27/11/2012 to 20/05/2025:
Teacher.
Substitute teacher for support, class A060, at the T. Bellini High School Via Baluardo Lamarmora, Novara

Education and training

From 2011 to 2016:
Specialization in Clinical Biochemistry at the University of Naples "Federico II" with a score of 50/50 on 07/07/2016 with a thesis entitled "Identification and quantification of urinary biomarkers for the diagnosis of classic organic acidemias"

In 2008:
Qualified to practice as a biologist in the June 2008 exam session. Registered with the Register of Biologists on October 19, 2016, Section A; Matriculation number: AA_076513

In 2007:
Master's Degree in Biological Sciences on November 21, 2007 from the University of Naples "Federico II" with a grade of 109/110. Her experimental thesis in Hematology, titled "New methods for studying hypercoagulability in women with recurrent miscarriages," was completed at the Hemostasis and Thrombosis Laboratory of San Giovanni Bosco Hospital, Local Health Authority NA1.

Professional skills

Apprenticeship:

- Tandem Mass Spectrometry at the "II Policlinico" Hospital in Naples
- Gas Chromatography-Tandem Mass Spectrometry (GC/MS) at the "II Policlinico" Hospital in Naples
- Basic Hematology at the "II Policlinico" Hospital in Naples
- Urinalysis at the "II Policlinico" Hospital in Naples
- Separative Biochemistry (DHPLC) at the "II Policlinico" Hospital in Naples
- Clinical Molecular Biology at the "II Policlinico" Hospital in Naples
- Clinical Biochemistry (EIA, proteins, routine) at the "II Policlinico" Hospital in Naples
- Pathology at the "II Policlinico" Hospital in Naples
- Microbiology at the "II Policlinico" Hospital in Naples
- Flow Cytometry at the "II Policlinico" Hospital in Naples
- Parasitology at the Monaldi Hospital
- Virology at the Monaldi Hospital
- Microbiology at the Monaldi Hospital
- Cytogenetics at the Elena D'Aosta Hospital

Language skills

Mother tongue(s): ITALIAN

Other language(s): English

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken Interaction	
ENGLISH	B1	B2	B1	B1	B1

Levels:A1 and A2 Basic; B1 and B2 Independent user; C1 and C2 Proficient user

ORGANISATIONAL SKILLS

Organizational and management skills
Excellent ability to organize experimental work.Proven ability to contribute positively in diverse team settings, aligning with team goals and supporting colleagues to achieve common objectives.

Communication and interpersonal skills
Competent in building and maintaining relationships with colleagues . Ability to actively listen and provide constructive feedback, ensuring a two-way communication process

PROFESSIONAL SKILLS

- Use of gas chromatography-mass spectrometry (GC/MS) to measure urinary organic acids and orotic acid.
  Performance of laboratory procedures for diagnostic confirmation in urine: sample collection and assessment of suitability; measurement of organic acids and orotic acid by GC/MS; processing and interpretation of samples for external quality programs; evaluation, validation, and interpretation of analytical runs.

- Use of mass spectrometry to measure amino acids and acylcarnitines in dried blood spots and serum.
  Performance of laboratory procedures for expanded newborn screening: sample collection and assessment of suitability; Performing screening and second-tier assays using tandem mass spectrometry, performing and interpreting samples for external quality programs, and evaluating and validating analytical runs.

- Use of the ACL 3000, 7000, 10000, and Sysmex CA 500 automated coagulometers to perform coagulation screening (TT, PT, aPTT, Fibr), physiological coagulation inhibitors (AT, PC, PS), APC resistance, assays for coagulation factors and inhibitors of factor VIII and IX, and antiphospholipid antibodies (LAC).

- Use of the PACKS-4 aggregometer to perform tests such as: platelet aggregation (to inducers such as ADP, COLL, ACA); RIPA (platelet aggregation to ristocetin); RICOF, and use of the impedance aggregometer (Multiplate).

- Use of the sandwich ELISA technique for the measurement of: aCL, F1+2, TAT, TFPI, PAI-1, TAFI, and the competition ELISA technique for the measurement of HCY.

- Use of the ROTEM thromboelastometer to perform the main tests such as extem, intem, fibritem, and aptem.

COMPUTER SKILLS

Good computer skills: Microsoft Word, Microsoft Excel, Microsoft Power Point, Internet Explorer.
Expertise in diagnostic platform: Diamante, Kelyon and Dieci

OTHER SKILLS

- Assessment of thrombophilic status in gynecology (use of oral contraceptives, postmenopausal replacement therapy, high-risk pregnancies, recurrent miscarriages), in youthful strokes, and in acute myocardial infarction (AMI).

- Assessment of bleeding risk in subjects with congenital coagulopathies (hemophilia A, B, von Willebrand disease, deficiencies of other coagulation factors, thrombocytopathies) and acquired coagulopathies (hepatitis, DIC, monitoring of patients on anticoagulant therapy).

PUBLICATIONS

Co-author of the following scientific works with the titles:

- E. Scolamiero, G.R.D. Villani, L. Ingenito, R. Pecce, L. Albano, M. Caterino, M.G. di Girolamo, C. Di Stefano, I. Franzese, **G. Gallo**, M. Ruoppolo.

  "Maternal Vitamin B12 deficiency detected in expanded newborn screening" (2014). Clin. Biochem. 47(18):312-7. doi: 10.1016/j.clinbiochem.2014.08.020. Epub 2014 Sep 7.

- Emanuela Scolamiero, Carla Cozzolino, Lucia Albano, Antonella Ansalone, Marianna Caterino, Graziella Corbo, Maria Grazia di Girolamo, Cristina Di Stefano, Adriano Durante, Giovanni Franzese, Ignazio Franzese, **Giovanna Gallo**, Paolo Giliberti, Laura Ingenito, Giovanni Ippolito, Basilio Malamisura, Pietro Mazzeo, Antonella Norma, Daniela Ombrone, Giancarlo Parenti, Silvana Pellecchia, Rita Pecce, Ippolito Pierucci, Roberta Romanelli, Anna Rossi, Massimo Siano, Teodoro Stoduto, Guglielmo R.D.Villani, Generoso Andria, Francesco Salvatore, Giulia Frisso and Margherita Ruoppolo

  "Targeted metabolomics in the expanded newborn screening for inborn errors of metabolism" (2015). Molecular ByoSystems, DOI: 10.1039/C4MB00729H"

- Villani GR, **Gallo G**, Scolamiero E, Salvatore F, Ruoppolo M

  "Classical organic acidurias": diagnosis and pathogenesis (2016). Clin Exp Med 2016 Sep 9. [Epub ahead of print], DOI: 10.1007/s10238-016-0435-0.

- C.Cozzolino, G.R.D. Villani, G.Frisso, E.Scolamiero, L.Albano, G.Gallo, R.Romanelli, M.Ruoppolo.

  "Biochemical and molecular characterization of 3-Methilcrotonylglycinuria in an Italian asymptomatic girl" (2017). Genet Mol Biol. 2018 Apr./Jun;41(2):379-385. doi: 10.1590/1678-4685-GMB-2017-0093. Epub 2018 May 14

- Rossi A, Ruoppolo M, Formisano P, Villani G, Albano L, **Gallo G**, Crisci D, Moccia A, Parenti G, Strisciuglio P, Melis D.

  "Insulin-resistance in glycogen storage disease type Ia: linking carbohydrates and mitochondria?" (2018) J Inherit Metab Dis. 2018 Feb 12. doi: 10.1007/s10545-018-0149-4. [Epub ahead of print]

- Guglielmo R.D. Villani, Lucia Albano, Marianna Caterino, Daniela Crisci, Silvia Di Tommaso, Simona Fecarotta, Maria Grazia Fisco, Giulia Frisso, Giovanna Gallo, Cristina Mazzaccara, Emanuela Marchese, Antonio Nolano, Giancarlo Parenti, Rita Pecce, Adriana Redi, Francesco Salvatore, Pietro Strisciuglio, Maria Grazia Turturo, Fabiana Vallone, Margherita Ruoppolo

  "Hypermethioninemia in Campania: Results from 10 years of newborn screening"
  Mol Genet Metab Rep. 2019 Dec; 21: 100520. Published online 2019 Oct 11. doi: 10.1016/j.ymgmr.2019.100520

- Alessandro Rossi, Mariagrazia Turtuto, Lucia Albano,Simona Fecarotta, Ferdinando Barretta, Daniela Crisci, Giovanna Gallo, Rosa Perfetto, Fabiana Uomo, Fabiana Vallone, Guglielmo Villani, Pietro Strisciuglio, Giancarlo Parenti, Giulia Frisso e Margherita Ruoppolo

  Long-term monitoring for short/branched-chain acyl-CoA dehydrogenase deficiency: A single-center 4-year experience and open issues
  Frontiers in Pediatrics. Publishe online 2022 September, doi 10.3389/fped.2022.895921.
  eCollection 2022.

- Ferdinando Barretta, Fabiana Uomo, Simona Fecarotta, Lucia Albano, Daniela Crisci, Alessandra Verde, Maria Grazia Fisco, Giovanna Gallo, Daniela Dottore Stagna, Maria Rosaria Pricolo, Marianna Alagia, Gaetano Terrone, Alessandro Rossi, Giancarlo Parenti, Margherita Ruoppolo, Cristina Mazzaccara, Giulia Frisso

  Contribution of genetic test to early diagnosis of Methylenetetrahydrolofate Reductase (MTHFR) Deficiency: The experience of a reference center in southern Italy Genes (Basel). 2023 Apr 216;14(5): 980. doi 10.3390/genes14050980

- Rosamaria Terracciano, Margherita Ruoppolo, Ferdinando Barretta, Lucia Albano,Daniela Crisci, Giovanna Gallo, Fabiana Uomo, Pietro Strisciuglio, Giancarlo Parenti,Giulia Frisso, Alessandro Rossi.

  An asymptomatic father diagnosed with 3-methylcrotonyl-CoA carboxylase deficiency following his son newborn screening test. Mol Genet Metab Rep. 2024Jul4:40:101116. Doi 10.1016/j.ymgmr.2024.101116. eCollection 2024 Sep.PMID:39055105

POSTER AND ABSTRACT

- A case of LCHADD: biochemical and genetic characterization"

  M.G.di Girolamo, E.Scolamiero, C.Cozzolino, R.Romanelli, **G.Gallo**, G.Frisso, M.Ruoppolo, F.Salvatore

- "Deficit di vitamina B12 materna diagnosticati mediante screening neonatale allargato"
  E.Scolamiero, L.Albano, L.Amoroso, E.Carotenuto, M.G. di Girolamo, C.Di Stefano, **G.Gallo**, L.Ingenito, R.Pecce, G.R.D. Villani, M.Ruoppolo, F.Salvatore

- "Plasma acylcanitines and urine organic acids profiles provide evidence for possible mitochondrial dysfunction in glycogen storage disease type Ia"

  Rossi A, Ruoppolo M, Formisano P, Villani G, Albano L, **Gallo G**, Moccia A, Parenti G, Strisciuglio P, Melis D

- "Deficit di 3-Metilcrotonil-CoA carbossilasi: identificazione di due nuove mutazioni"

  G.R.D. Villani, C.Cozzolino, E.Scolamiero, L.Albano, M.G. di Girolamo, C.Di Stefano, I.Franzese, **G.Gallo**, L.Ingenito, R.Pecce, R.Romanelli, M.Ruoppolo,G.Frisso, F.Salvatore

- "Dissecting molecular bases of human genetic diseases by proteomic and metabolomic approaches"

  M.Caterino, L. Albano, M.G. di Girolamo, **G. Gallo**, E.Imperlini, L. Ingenito, S.Orrù, R. Pecce, E. Scolamiero, G.R.D. Villani, M.Ruoppolo

- "Diagnosi di malattie metaboliche su sospetto clinico a confronto con dati di screening metabolico"

  E.Scolamiero, G.R.D. Villani, R.Pecce, L.Ingenito, M.G. di Girolamo, L.Albano,**G.Gallo**, D.Crisci, C. Di Stefano, F.Salvatore, M.Ruoppolo

- ”Targeted metabolomics in the screening of inborn errors of metabolism”

  E.Scolamiero, G.Frisso, C.Cozzolino, C.Di Stefano, R.Pecce, L,Ingenito, G.R.D. Villani M.G.di Girolamo, **G.Gallo**, L.Albano, F.Salvatore, M.Ruoppolo

- ”Dissecting molecular bases of human genetic diseases by proteomic and metabolomic approaches”

  M.Caterino, L.Albano, M.G. di Girolamo, **G.Gallo**, E.Imperlini, L.Ingenito, S.Orrù, R.Pecce, E.Scolamiero, G.R.D. Villani, M.Ruoppolo.

- ”Newborn screening: uno strumento per la diagnosi di difetti metabolici materni non diagnosticati”

  G.R.D. Villani, E.Scolamiero, R.Pecce, L.Ingenito, M.G. di Girolamo, L.Albano, **G.Gallo**, D.Crisci, C. Di Stefano, F.Salvatore, M.Ruoppolo

- Mutazioni a differente esito nella metilmalonico acidemia di tipo Mut 0 ripropongono il problema del timing nello screening metabolico allargato”

  Guglielmo Rosario Domenico Villani, Emanuela Scolamiero, Rita Pecce, Laura Ingenito, Maria Grazia di Girolamo, Lucia Albano, **Giovanna Gallo**, Daniela Crisci, Francesco, Salvatore, Giulia Frissa, Margherita Ruoppolo.

- “Metabolomic approach in the study of inborn errors of metabolism”

  Margherita Ruoppolo, Rita Pecce, Guglielmo R.D. Villani, Lucia Albano, Marianna Caterino, Daniela Crisci, Maria Grazia Di Girolamo, Silvia Di Tommaso, Giovanna Gallo, Francesco Salvatore.

- “Insulin-resistance in glycogen storage disease type IA (GSDIA): linking carbohydrates and mitochondria?”

  Alessndro Rossi, Margherita Ruoppolo, Pietro Formisano, Guglielmo Villani, LuciaAlbano, Giovanna Gallo, Augusta Moccia, Giancarlo Parenti, Pietro Strisciuglio, Daniela Melis.

- “Screening neonatale esteso (SNE): 10 anni di esperienza della Regione Campania”

  Albano L. , Crisci D. , Di Tommaso S. , Fisco M. , Gallo G. , Pecce R. , Villani G. , Salvatore F. , Ruoppolo M.

- ” Screening Neonatale Esteso per errori congeniti del metabolismo: l’esperienza di un Centro clinico di riferimento in Campania

  Verde A, Fecarotta S, Acquaviva F, Rossi A, Barretta F, Zuppaldi C, Strisciuglio P, Fontanelli D, Albano L, Crisci D, Gallo G, Turturo M, Frisso G, Ruoppolo M, Parenti G

- Casistica dei richiami allo Screening Neonatale Esteso per ipertirosinemia in Campania: il caso dell’Hawkinsinuria.

  Verde A, Rossi A, Fecarotta S, Barretta F, Uomo F, Albano L, Crisci D, **Gallo G**, Vallone F,Ruoppolo M, Frisso G, Parenti G

- “ Un deficit di MTHFR da screening neonatale esteso sottolinea la criticità nell’uso della metionina come marcatore della patologia”

  Crisci D., Albano L., Di Tommaso S. , Fisco M. , Gallo G., Vallone F., Acquaviva F., Fecarotta S., Frisso G., Mazzaccara C., Parenti G., Strisciuglio P., Ruoppolo M.

- “Difetti metabolici materni: 10 anni di screening neonatale esteso in Campania”

  Gallo G., Villani G.D.V., Albano L., Crisci D., Di Tommaso S. , Fisco M., Pecce R., Acquaviva F., Fecarotta S., Frisso G., Parenti G., Strisciuglio P., Ruoppolo M.

CLINICAL CASE

- “Un effettivo vantaggio dello screening neonatale allargato”

  Cristina Mazzaccara, Adriana Redi, Lucia Albano, Simona Fecarotta, Carmen Flagiello, Daniela Crisci, Fabio Acquaviva, Giovanna Gallo, Antonio Nolano, Bruno Mirra, Rita Pecce, Giancarlo Parenti, Guglielmo Rosario Domenico, Villani, Margherita Ruoppolo, Giulia Frisso

PARTICIPATION IN CONFERENCES

- Participation in the 5th National Joint Congress entitled: Innovative Therapies for Genetic Diseases (Metabolic and Non-Metabolic), held in Naples, November 26-28, 2013.
- Participation in the S.I.S.A. Regional Conference, Campania Section, entitled: Dyslipidemias: New Frontiers in Diagnosis and Treatment, held in Naples on January 29, 2015.
- Participation in the Abbott Diagnostics Conference: "The Role of the Clinical Biochemistry Laboratory in Current Clinical-Diagnostic Pathways," held at the Federico II University Hospital on June 24, 2016.
- Participation in the 9th Simmesn National Congress "Hereditary Metabolic Diseases: Present and Future," held in Catania, November 21-23, 2018.
- Online participation in the 11th National Congress. Simmesn, held in Bologna, December 2-4, 2021
- Participation in the 12th Simmesn National Congress, held in Bari, November 9-10-11, 2022
- Participation in the 1st Simmesn Days "The Network Between Working Groups," held in Padua on Apri 13-14, 2023
- Participation in the 2nd Simmesn Days "The Network Between Working Groups," held in Bologna on April 18-19, 2024

TRAINING COURSES

- Training Course: Pediatric Care for Rare Diseases: The Model of Genetic Syndromes and Inherited Metabolic Diseases. Held in Naples on January 23-24, 2015.

- Theoretical and Practical Course on Early Cardiac Defibrillation (BLS-D) according to the American Heart Association and I.L.C.O.R. 2010 Guidelines. Held in Naples on February 26, 2015.

- Training Course: EVOware Standard Software. Held in Naples on March 8-10, 2016.
  The course provided the following skills:
  - Introduction to the software
  - Safety instructions
  - Description of the EVOware Standard software
  - Running a script
  - Handling the most common errors
  - Start-of-work, end-of-work, weekly, and monthly maintenance

- Training Course: Bone Marrow donor recruiter. Held in Naples on September 11 and 18, 2017.

- Training course entitled: "News on the Pathogenesis and Treatment of Hereditary Metabolic Diseases" held online on December 17, 2020

- Training course entitled "Accreditation in Medical Laboratories: The New UNI EN ISO 15189:2024 Standard and Risk Management" held online on June 5-6, 2025

PERSONAL INFORMATION

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