GENERAL INFORMATION: CHIARA DI RESTA
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EDUCATION
2016: Specialization school in Clinical Pathology; University of Pavia, Italy
2008: Ph.D. in Traslational and Molecular Medicine (DIMET); University of Milano-Bicocca, Milan, Italy
2007: National License to practice biology; University of Insubria, Varese, Italy
2005: Degree in Biological Sciences (5 years); University of Milano-Bicocca, Milan, Italy
2000: Diploma of High School (Classical Lyceum "Ettore Majorana", Desio, Italy)

POST-GRADUATE TRAINING and ACADEMIC APPOINTMENTS
11/2021-today: Researcher fellowship at Ospedale San Raffaele, Milan
2015 – 10/2020: Assistant professor in Clinical Pathology (Med/05), Vita-Salute San Raffaele University, Milan
2011 - 2016: Resident of specialization school in Clinical Pathology, University of Pavia, Pavia, Italy
2012 - 2015: University course teacher (professore a contratto) of Cellular Biology course (Bio/13) at degree course of Physiotherapy at Vita-Salute San Raffaele University, Milan
2008 -2015: Post-Doctoral position; Supervisor: Prof. Maurizio Ferrari. Genomic Unit for the Diagnosis of Human Disorders, Division of Genetics and Cell Biology, Ospedale San Raffaele, Milan
2005 - 2008: Ph.D. Student; Supervisor: Prof. Andrea Becchetti. Laboratory of cellular physiology of central nervous system, University of Milano-Bicocca

OTHER EXPERIENCES and PROFESSIONAL MEMBERSHIPS
2019-today Member of Task Force Young Scientists of the IFCC (International Federation of Clinical Biochemistry)
2018-today Member of Italian society of Pathology and Translational Medicine (Sipmet)
2013-2018 Young Scientist Member of the European Working Group on Personalized Laboratory Medicine (WG-PLM) of EFLM (European Federation of clinical chemistry and laboratory medicine)
2013- today Member of Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBIOC)

AWARDS AND HONORS
2021 Abilitazione scientifica nazionale (ASN) II fascia nel settore scientifico disciplinare Med/05 (Patologia Clinica)
2021 Abilitazione scientifica nazionale (ASN) II fascia nel settore scientifico disciplinare Bio/12 (Biochimica clinica e biologia molecolare clinica)
2019 Appointment as member young scientist of Task Force Young Scientists of the IFCC (International Federation of Clinical Biochemistry)
2013 – 2018 Appointment as full member young scientist of the EFLM (European Federation of clinical chemistry and laboratory medicine) working group on personalized laboratory medicine (WG-PLM)
Sept. 2013 First best poster award for the project entitled “What we don’t know about the genetic basis of Brugada Syndrome” at II ESPT conference (European Society of Pharmacogenomics and Theranostics), Lisbon 2013
Oct. 2005 Award from Telethon for the functional studies on mutation on α2 subunit of neuronal nicotinic receptor associated to a form of familial nocturnal epilepsy
**Ongoing research support**

1. Bando Ricerca Finalizzata Giovani Ricercatori - Italian Ministry of Health
   Role: Principal Investigator (P.I.) Project: GR-2016-02362316; Title: “Combination of next generation sequencing approaches for characterization of genetic bases and clinical variability in a large Brugada Syndrome cohort”.

**PUBLICATIONS**

1) Ferrari D, Mangia A, Spanò MS, Zaffarano L, Viganò M, **Di Resta C**, Locatelli M, Ciceri F, De Vecchi E
   *Quantitative serological evaluation as a valuable tool in the COVID-19 vaccination campaign*
   Clinical Chemistry Laboratory Medicine, *In press*

2) Vecchi VM, Spreficco M, Brix A, Santoni A, Sala S, Pistocchi A, Marozzi A and **Di Resta C**
   *Generation of a Triadin KnockOut Syndrome Zebrafish Model*
   International Journal of Molecular Sciences, 22, 9720

3) Banfi F, Rubio A, Zaghi M, Massimino L, Fagnocchi G, Bellini E, Luoni M, Cancellieri C, Bagliani A, **Di Resta C**, Maffezzini C, Ianielli A, Ferrari M, Piazza R, Mologni L, Broccoli V, Sessa A
   *SETBP1 accumulation induces P53 inhibition and genotoxic stress in neural progenitors underlying neurodegeneration in Schinzel-Giedion syndrome*
   Nature Communications, 2021, 12(1), 4050

4) Ferrari D, Clementi N, Spanò SM, Albitar-Nehme S, Ranno S, Colombini A, Criscuolo E, **Di Resta C**, Tomaiuolo R, Viganò M, Mancini N, De Vecchi E
   *Harmonization of six quantitative SARS-CoV-2 serological assays using sera of vaccinated subjects*
   Clinica Chimica Acta, 2021, 522, pp. 144–151

5) Ferrari D., **Di Resta C.**, Tomaiuolo R., Sabetta E., Pontillo M., Motta A., Locatelli M.
   *Long-term antibody persistence and exceptional vaccination response on previously SARS-CoV-2 infected subjects*
   Vaccine, 2021, 39(31), pp. 4256–4260

6) **Di Resta C**, Ferrari D, Viganò M, Moro M, Sabetta E, Minerva M, Ambrosio A, Locatelli, M, Tomaiuolo, R.
   *The gender impact assessment among healthcare workers in the sars-cov-2 vaccination—an analysis of serological response and side effects*
   Vaccines, 2021, 9(5), 522

7) Ciccone G, Monasky M.M, Santinelli V, Micaglio E, Vicedomini G, Anastasia L, Negro G, Borrelli V, Giannelli L, Santini F, De Innocentiis C, Rondine R, Locati E.T, Bernardini A, Mazza B.C, Mecarocci V, Crossed D Signalović A, Ghiroldi A, D'Imperio S, Benedetti S, **Di Resta C**, Rivolta I, Casari G, Petretto E, Pappone C
   *Brugada syndrome genetics is associated with phenotype severity*
8) Peretto G, Barzaghi F, Cicalese M.P, Di Resta C, Slavich M, Benedetti S, Giangiobbe S, Rizzo S, Palmisano A, Esposito A, De Cobelli F, Gulletta S

*Immunosuppressive therapy in childhood-onset arrhythmogenic inflammatory cardiomyopathy*

PACE - Pacing and Clinical Electrophysiology, 2021, 44(3), pp. 552–556

9) Di Resta C., Pipitone G., Carrera P., Ferrari M.

*Current scenario of the genetic testing for rare neurological disorders exploiting next generation sequencing*

Neural Regeneration Research, 2021, 16(3), pp. 475–481

10) Cabitza F, Campagner A, Ferrari D, Di Resta C, Ceriotti D, Sabetta E, Colombini A, De Vecchi E, Banfi G, Locatelli M, Carobene A

*Development, evaluation, and validation of machine learning models for COVID-19 detection based on routine blood tests*

Clinical Chemistry and Laboratory Medicine, 2021, 59(2), pp. 421–431

11) Peretto G, Barison A, Forleo C, Di Resta C, Esposito A, Aquaro G.D, Scardapane A, Palmisano A, Emdin M, Resta N, Santoni A, Guaricci A.I

*Late gadolinium enhancement role in arrhythmic risk stratification of patients with LMNA cardiomyopathy: Results from a long-term follow-up multicentre study*

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12) Monasky MM, Micaglio E, Ciconte G, Borrelli V, Giannelli L, Vicedomini G, Ghiroldi A, Anastasia L, Locati ET, Benedetti S, Di Resta C, Casari G and Pappone C

*Novel SCN5A p.V1429m variant segregation in a family with Brugada syndrome*

International Journal of Molecular Sciences, 2020, 21(16), pp. 1–8, 5902

13) Di Resta C, Ferrari M

*Genetic testing in neurology exploiting next generation sequencing: state of art*

Neural Regeneration Research, 2020, 15(2), pp. 265–266

14) Carobene A, Ferrari D, Campagner A, Cabitza F, Sabetta E, Ceriotti D, Di Resta C, Locatelli M

*Evidence of significant difference in key covid-19 biomarkers during the Italian lockdown strategy. A retrospective study on patients admitted to a hospital emergency department in northern Italy*

Acta Biomedica, 2020, 91(4), pp. 1–9, e2020156

15) Longo F, Benedetti S, Zambon A.A, Natali Sora MG, Di Resta C, De Ritis D, Quattrini A, Maltecca F, Ferrari M and Previtali SC

*Impaired turnover of hyperfused mitochondria in severe axonal neuropathy due to a novel DRP1 mutation*

Human Molecular Genetics, 2020, 29(2), pp. 177–188

16) Micaglio E, Monasky MM, Resta N, Bagnulo R, Ciconte G, Gianelli L, Locati ET, Vicedomini G, Borrelli V, Ghiroldi A, Anastasia L, Benedetti S, Di Resta C, Ferrari M, Pappone C.
Novel SCN5A p.W697X Nonsense Mutation Segregation in a Family with Brugada Syndrome.
International Journal of Molecular Sciences, 2019, 20(19), 4920

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Cardiac and Neuromuscular Features of Patients with LMNA-Related Cardiomyopathy.
Annals of Internal Medicine, 2019, 171(7), pp. 458–463

18) Rossi D, Gigli L, Gamberucci A, Bordoni R, Pietrelli A, Lorenzini S, Pierantozzi E, Peretto G, De Bellis G, Della Bella P, Ferrari M, Sorrentino V, Benedetti S, Sala S, Di Resta C.
A novel homozygous mutation in the TRDN gene causes a severe form of pediatric malignant ventricular arrhythmia.
Heart Rhythm, 2020, 17(2), pp. 296–304

19) Micaglio E., Monasky M.M., Ciconte G., Vicedomini G., Conti M., Mecarocci V., Giannelli L., Giordano F., Pollina A., Saviano M., Crisà S., Borrelli V., Ghioroldi A., D'Imperio S., Di Resta C., Benedetti S., Ferrari M., Santinelli V., Anastasia L., Pappone C.
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20) Monasky MM, Micaglio E, Vicedomini G, Locati ET, Ciconte G, Giannelli L, Giordano F, Crisà S, Vecchi M, Borrelli V, Ghioroldi A, D'Imperio S, Di Resta C, Benedetti S, Ferrari M, Santinelli V, Anastasia L, Pappone C.
Comparable clinical characteristics in Brugada syndrome patients harboring SCN5A or novel SCN10A variants.
Europace. 2019 Oct 1;21(10):1550-1558.

21) Micaglio E, Monasky MM, Ciconte G, Vicedomini G, Conti M, Mecarocci V, Giannelli L, Giordano F, Pollina A, Saviano M, Pozzi PR, Di Resta C, Benedetti S, Ferrari M, Santinelli V, Pappone C.
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22) Monasky MM, Micaglio E, Ciconte G, Benedetti S, Di Resta C, Vicedomini G, Borrelli V, Ghiorldi A, Piccoli M, Anastasia L, Santinelli V, Ferrari M, Pappone C
Genotype/phenotype relationship in a consanguineal family with Brugada syndrome harboring the R1632C missense variant in the SCN5A gene
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23) Di Resta C, Ferrari M
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Clinical Biochemistry, 2019, 72, pp. 81–86

24) Damin F, Burgio V, Brisci A, Soriani N, Belcastro B, Di Resta C, Gianni L, Chiari M, Ronzoni M, Ferrari M

Evaluation of three advanced methodologies, COLD-PCR, microarray and ddPCR, for identifying the mutational status by liquid biopsies in metastatic colorectal cancer patients
Clinica Chimica Acta, 2019, 489, pp. 136–143

25) Kuželički NK, Prodan Žitnik I, Llerena A, Cascorbi I, Siest S, Simmaco M, Ansari M, Pazzagli M, Di Resta C, Brandslund I, Schwab M, Vermeersch P, Lunshof JE, Dedoussis G, Flordellis CS, Fuhr U, Stingl JC, Gurwitz D, Marc J and the Pharmacogenomics Education Working Group (PGxEWG)
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26) Di Resta C, Ferrari M

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27) Prodan Žitnik I, Cerne D, Mancini I, Simi L, Pazzagli M, Di Resta C, Podgornik H, Repič Lampret B, Trebušak Podgrajšek K, Šipeky C, Van Schaik RH, Brandslund I, Vermeersch P, Schwab M, Marc J on behalf of EFLM/ESPT working group of Personalised Laboratory Medicine
Personalized laboratory medicine: a patient-centered future approach
Clinical Chemistry and Laboratory Medicine, 2018 Nov 27;56(12):1981-1991

28) Peretto G, Benedetti S, Di Resta C, Gigli L, Sala S, Ferrari M, Della Bella P

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29) Di Resta C, Spiga I, Presi S, Merella S, Pipitone GB, Manitto MP, Querques G, Battaglia Parodi M, Ferrari M, Carrera P

Integration of multigene panels for the diagnosis of hereditary retinal disorders using Next Generation Sequencing and bioinformatics approaches.
Electronic Journal of the International Federation of Clinical Chemistry and Laboratory Medicine, 2018Vol29No1pp015-025

30) Tosetti V, Sassone J, Ferri ALM, Taiana M, Bedini G, Nava S, Brenna G, Di Resta C, Pareyson D, Di Giulio AM, Carelli S, Parati EA, Gorio A.

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31) Di Resta C, Galbiati S, Carrera P, Ferrari M
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Electronic Journal of the International Federation of Clinical Chemistry and Laboratory Medicine, 2018Vol29No1pp004-014

32) **Di Resta C, Pietrelli A, Sala S, Della Bella P, De Bellis G, Ferrari M, Bordoni R and Benedetti S**

*High-throughput genetic characterization of a cohort of Brugada syndrome patients.*

Human Molecular Genetics, 2015 Oct 15; 24 (20):5828-35

33) Malentacchi F, Mancini I, Brandslund I, Vermeersch P, Schwab M, Marc J, van Schaik RH, Siest G, Theodorsson E, Pazzagli M, **Di Resta C**_European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) – European Society of Pharmacogenomics and Personalised Therapy (ESPT) Joint Working Group on Personalized Laboratory Medicine (WG-PLM).

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34) Malentacchi F, Mancini I, Brandslund I, Vermeersch P, Schwab M, Marc J, van Schaik RH, Siest G, Theodorsson E, Pazzagli M, **Di Resta C**_European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) – European Society of Pharmacogenomics and Personalised Therapy (ESPT) Joint Working Group on Personalized Laboratory Medicine (WG-PLM).

*Is laboratory medicine ready for the era of personalized medicine? A survey addressed to laboratory directors of hospitals/academic schools of medicine in Europe.*

Clinical Chemistry and Laboratory Medicine, 2015 Jun; 53 (7): 981-8

35) Carrera P, **Di Resta C**, Volonteri C, Castiglioni E, Bonfiglio S, Lazarevic D, Cittaro D, Stupka E, Ferrari M, Somaschini M; BPD and Genetics Study Group; BPD and Genetics Study Group 1.

*Exome sequencing and pathway analysis for identification of genetic variability relevant for bronchopulmonary dysplasia (BPD) in preterm newborns: A pilot study* 

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36) Mancini I, Pinzani P, Simi L, Brandslund I, Vermeersch P, **Di Resta C**, Schwab M, Marc J, Van Schaik RHN, Pazzagli M; European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)–European Society of Pharmacogenomics and Theranostics (ESPT) joint Working Group Personalized Laboratory Medicine (WG-PLM)

*Implementation of companion diagnostics in the clinical laboratories: the BRAF example in Melanoma.*

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37) **Di Resta C**, Manzoni M, Zoni Berisso M, Siciliano G, Benedetti S, Ferrari M

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38) **Di Resta C** and Becchetti A

*Effect of Carbamazepine and Related Compounds on Ligand-Gated Channels: Possible Implications for Synaptic Transmission and Side Effects.*
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39) Kricka L and **Di Resta C**

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40) Sommariva E, Pappone C, Martinelli Boneschi F, **Di Resta C**, Carbone MR, Salvi E, Vergara P, Sala S, Cusi D, Ferrari M, Benedetti S

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41) **Di Resta C**, Marangoni S, Rocchetti M, Barile L, Rizzetto R, Summa A, Severi S, Sommariva E, Pappone C, Ferrari M, Benedetti S, Zaza A

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42) **Di Resta C**, Ambrosi P, Curia G, Becchetti A

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European Journal of Pharmacology, 2010 Sep 15;643(1):13-20

43) **Di Resta C**, Becchetti A

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44) Aridon P, Marini C, **Di Resta C**, Brilli E, De Fusco M, Politi F, Parrini E, Manfredi I, Pisano T, Pruna D, Curia G, Cianchetti C, Pasqualetti M, Becchetti A, Guerrini R, Casari G

*Increased Sensitivity of the Neuronal Nicotinic Receptor α2 Subunit Causes Familial Epilepsy with Nocturnal Wandering and Ictal Fear.*
American Journal of Human Genetics, 2006, 79:342-350