

Emanuele Micaglio, MD

Milan, Italy | +39-0252774298 (landline) | emanuele.micaglio@grupposandonato.it

EDUCATION

Medical Doctor
University of Ferrara
2003-2011

Residency in Clinical Genetics
University of Padua
2012 - 2016

POSITIONS

Head of Cardiogenetics Outpatient Clinic
IRCCS Policlinico San Donato
Piazza Edmonds Mat an 2
20097, San Donato Milanese (MI), Italy
September 2017 — Present.

Resident in Clinical Genetics

Padua University

- * Specialist qualification obtained on July 11, 2017, score 110/110. Thesis: Genotype/phenotype correlation in a cohort of 125 consecutive patients affected by either type 2 Neurofibromatosis or Schwannomatosis, supervisor Prof. Leonardo Salviati.
- ◆ Genetic Counselling for pre- and postnatal pathologies (461 consultations performed in Padua and Bologna hospitals)
- ◆ Ambulatory clinic for neuro-cutaneous pathologies (Neurofibromatosis type 1, type 2 and Schwannomatosis; 262 consultations performed in the Padua hospital)
- ◆ Consulting for drugs taken during pregnancy and/or breastfeeding (196 consultations in the Padua hospital)
- ◆ Genotype-phenotype correlations in sub-microscopic genomic rearrangements (more than 200 independently interpreted reports)
- ◆ Outpatient clinic for genetic predisposition to cancer (BRCA 1, BRCA2, MEN 1, MEN2, Lynch syndrome, Li Fraumeni syndrome, Gorlin syndrome, family melanomas, Cowden syndrome and chromosomal instability syndromes: 365 consultations at the Bologna hospital, between April 2015 and August 2016)
- ◆ Preparation, reporting and delivery of traditional cytogenetic analyses (in particular standard, high-resolution, FISH locus specific chromosomal tests including 54 cases of microdeletion 22q11.2)

July 2012 - July 2017.

PROFESSIONAL ORDERS

Regularly enrolled in the Order of Surgeons and Dentists of the Province of Rovigo, March 21, 2012-Present, with the number 1723.

AWARDS: Winner of “2020 Best Oral Communication Award” of Italian Cardiology Society, IS” December 2020 (Rome, Italy)

FUNDING: May 2020: 36.000 euros fundraising for “NO DIAG” protocol

March 2021: 13.000 euros fundraising for “NO DIAG” protocol

April 2021: 12.000 euro fundraising “in loving memory of Mr. Savioli (1988 — 2020)”

May 2021: 10.400 euro fundraising for ‘NO DIAG” protocol

PUBLICATIONS

- ◆ Pasqualin G, Boccellino A, Chessa M, Ciconte G, Marcolin C, **Micaglio E**, Pappone C, Sturla F, Giamberti A. Ebstein's anomaly in children and adults: multi-disciplinary insights into imaging and therapy. *Heart*. 2023 Jul 24; heartjnl-2023-322420. Doi: 10.1136/heartjnl-2023-322420. Epub ahead of print. PMID: 37487694.
- ◆ Marelli S, **Micaglio E***, Taurino J, Salvi P, Rurali E, Perrucci GL, Dolci C, Udugampolage NS, Caruso R, Gentilini D, Trifiro' G, Callus E, Frigiola A, De Vincentiis C, Pappone C, Parati G, Pini A. Marfan Syndrome: Enhanced Diagnostic Tools and Follow-up Management Strategies. *Diagnostics (Basel)*. 2023 Jul 5; 13(13):2284. Doi: 10.3390/diagnostics13132284. PMID: 37443678; PMCID: PMC10340634. *Co-first **author**
- ◆ Dato C. **Micaglio E***, Moresco G, Rondinone O, Vitali P, Pappone C, Fontana L, Miozzo M, Bet L. Case report: Chorea and cognitive decline in a young woman: instrumental and genetic assessment of a case originally diagnosed as multiple sclerosis. *Front Genet*. 2023 June 26; 14:1129289. Doi: 10.3389/fgene.2023.1129289. PMID: 37434948; PMCID: PMC10331612. *Co-first **author**
- ◆ Taurino J, **Micaglio E**, Russo Raucci A, Zanussi M, Chessa M, Udugampolage NS, Carrera P, Pappone C, Pini A. Case report: Complex arterial findings in vascular Ehlers-Danlos syndrome with a novel *C'GL3A1* variant and death at young age. *Front Cardiovasc Med*. 2023 Jun 19; 10:1110392. Doi: 10.3389/fcvm.2023.1110392. PMID: 37404745; PMCID: PMC10315819.
- ◆ Pappone C, Ciconte G, Anastasia L, Gaita F, Grant E, **Micaglio E**, Locati ET, Calovic Z, Vicedomini G, Santinelli V. Right ventricular epicardial arrhythmogenic substrate in long-QT syndrome patients at risk of sudden death. *Europace*. 2023 Mar 30; 25(3):948-955. Doi: 10.1093/europace/euac264. PMID: 36610790; PMCID: PMC10062343.
- ◆ Moresco G, Rondinone O, Mauri A, Costanza J, Santaniello C, Colapietro P, **Micaglio E**, Marfia G, Pesenti C, Grilli F, Rinaldi B, Prada E, Scuvera G, Villa R, Bedeschi MF, Miozzo MR, Milani D, Fontana L. Pitfalls of whole exome sequencing in undefined clinical conditions with a suspected genetic etiology. *Genes Genomics*. 2023 May; 45(5):637-655. Doi: 10.1007/s13258-022-01341-x. Epub 2022 Dec 1. PMID: 36454368.
- ◆ Ghiroldi A, Ciconte G, Creo P, Tarantino A, Melgari D, D'Imperio S, Piccoli M, Cirillo F, **Micaglio E**, Monasky MM, Frosio A, Locati ET, Vicedomini G, Rivolta I, Pappone C, Anastasia L. Alterations of the Sialylation Machinery in Brugada Syndrome. *Int J Mol Sci*. 2022 Oct 29; 23(21):13154. Doi: 10.3390/ijms232113154. PMID: 36361941; PMCID: PMC9655504.

- ◆ Monasky MM, **Micaglio E***, D'Imperio S, Pappone C. The Mechanism of Ajmaline and Thus Brugada Syndrome: Not Only the Sodium Channel! *Front Cardiovasc Med.* 2021 Dec 23; 8:782596. Doi: 10.3389/fcvm.2021.782596. PMID: 35004896; PMCID: PMC8733296.*Co-first author
- ◆ Pappone C, Santinelli V, Mecarocci V, Tondi L, Ciconte G, Manguso F, Sturla F, Vicedomini G, **Micaglio E**, Anastasia L, Pica S, Camporeale A, Lombardi M. Brugada Syndrome: New Insights From Cardiac Magnetic Resonance and Electro-anatomical Imaging. *Circ Arrhythmia Electrophysiol.* 2021 Nov; 14(11):e010004. Doi: 10.1161/CIRCEP.121.010004. Epub 2021 Oct 25. PMID: 34693720.
- ◆ D'Imperio S, Monasky M, **Micaglio E**, Ciconte G, Anastasia L, Pappone C: Brugada Syndrome: Warning of a Systemic Condition? *Front Cardiovasc Med.* 2021 Oct 15; 8:771349. Doi: 10.3389/fcvm.2021.771349. PMID: 34722688; PMCID: PMC8553994.
- ◆ D'Imperio S, Monasky MM, **Micaglio E**, Negro G, Pappone C. Impact of Dietary Factors on Brugada Syndrome and Long QT Syndrome. *Nutrients.* 2021 Jul 21; 13 (8):2482. Doi: 10.3390/nu13082482. PMID: 34444641; PMCID: PMC8401538.
- ◆ Monasky MM, **Micaglio E**, Ignaccolo S, Pappone C. Further Considerations in Childhood-Onset Hypertrophic Cardiomyopathy Genetic Testing. *Front Cardiovasc Med.* 2021 Jun 21; 8:698078. Doi: 10.3389/fcvm.2021.698078. PMID: 34235191; PMCID: PMC8255358.
- ◆ Monasky MM, Rutigliani C. **Micaglio E**, Pappone C. Commentary: Peptide-Based Targeting of the L-Type Calcium Channel Corrects the Loss-of-Function Phenotype of Two Novel Mutations of the *CACNA1* Gene Associated With Brugada Syndrome. *Front Physiol.* 2021 Jun 9; 12:682567. Doi: 10.3389/fphys.2021.682567. PMID: 34177625; PMCID: PMC8220137.
- ◆ Monasky MM, **Micaglio E**, Ciconte G, Rivolta I, Borrelli V, Ghiroldi A, D'Imperio S, Binda A, Melgari D, Benedetti S, Mitrovic P, Anastasia L, Mecarocci V, Čalović Z, Casari G, Pappone C. Novel *SCNSA* p. Val 1667Asp Missense Variant Segregation and Characterization in a Family with Severe Brugada Syndrome and Multiple Sudden Deaths. *Int J Mol Sci.* 2021 Apr 29; 22(9):4700. Doi: 10.3390/ijms22094700. PMID: 33946750; PMCID: PMC8125150.
- ◆ Monasky MM, **Micaglio E**, Locati ET, Pappone C. Evaluating the Use of Genetics in Brugada Syndrome Risk Stratification. *Front Cardiovasc Med.* 2021 Apr 21; 8:652027. Doi: 10.3389/fcvm.2021.652027. PMID: 33969014; PMCID: PMC8096997
- ◆ **Micaglio E**, Locati ET, Monasky MM, Romani F, Heilbron F, Pappone C. Role of Pharmacogenetics in Adverse Drug Reactions: An Update towards Personalized Medicine. *Front Pharmacol.* 2021 Apr 30; 12:651720. Doi: 10.3389/fphar.2021.651720. PMID: 33995067; PMCID: PMC8120428
- ◆ **Micaglio E**, Monasky MM, Bernardini A, Mecarocci V, Borrelli V, Ciconte G, Locati ET, Piccoli M, Ghiroldi A, Anastasia L, Pappone C. Clinical Considerations for a Family with Dilated Cardiomyopathy, Sudden Cardiac Death, and a Novel 7TN Frameshift Mutation. *Int J Mol Sci.* 2021 Jan 12; 22(2): E 670. Doi: 10.3390/ijms22020670. PMID: 33445410

- ◆ Nuovo S, Bacigalupo I, Ginevrino M, Battini R, Bertini E, Borgatti R, Casella A, Micalizzi A, Nardella M, Romaniello R, Serpieri V, Zanni G, **Micaglio E**, Valente EM, Vanacore N; Age and sex prevalence estimate of Joubert syndrome in Italy. JS Italian Study Group. *Neurology*. 2020 Feb 25;94(8):e797-e801. Doi: 10.1212/WNL.0000000000008996. Epub 2020 Jan 22. PMID: 31969461

- ◆ Ciconte G, Monasky MM, Santinelli V, **Micaglio E**, Vicedomini G, Anastasia L, Negro G, Borrelli V, Giannelli L, Santini F, De Innocentiis C, Rondine R, Locati ET, Bernardini A, Mazza BC, Mecarocci V, Čalović Z, 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. *Eur Heart J*. 2020 Nov 21; ehaa942. Doi: 10.1093/Eur Heart/ehaa942. Epub ahead of print. PMID: 33221895

- ◆ Pappone C, Monasky MM, **Micaglio E**, Ciconte G. Right ventricular electro-mechanical abnormalities in Brugada syndrome: is this a cardiomyopathy? *Eur Heart J Suppl*. 2020 Jun; 22 (Suppl E): E I 01-K104. Doi: 10.1093/Eur Heart J/suaa071. *Spud* 2020 Mar 25. PMID: 32523450; PMCID: PMC7270919.

- ◆ Monasky MM, **Micaglio E**, Ciconte G, Pappone C. Brugada Syndrome: Oligogenic or Mendelian Disease? *Int J Mol Sci*. 2020 Mar 1; 21(5):1687. Doi: 10.3390/ijms21051687. PMID: 3212 523; PMCID: PMC7084676. *Co-first author

- ◆ Vianello E, Dozio E, Bandera F, Frolidi M, **Micaglio E**, Lamont I, Tacchini L, Schmitz G, Corsi Romanelli MM. Correlative Study on Impaired Prostaglandin E2 Regulation in Epicardial Adipose Tissue and its Role in Maladaptive Cardiac Remodeling via EPAC2 and ST2 Signaling in Overweight Cardiovascular Disease Subjects. *Int J Mol Sci*. 2020 Jan 14; 21(2):520. Doi: 10.3390/ijms21020520. PMID: 31947646; PMCID: PMC7014202.

- ◆ **Micaglio E**, Andronache AA, Camera P, Monasky MM, Locati ET, Pirola B, Presi S, Carminati M, Feriari M, Giamberti A, Pappone C. Novel *JAG1* Deletion Variant in Patient with Atypical Alagille Syndrome. *Int J Mol Sci*. 2019 Dec 11;20(24):6247. Doi: 10.3390/ijms20246247. PMID: 31 835735; PMCID: PMC6940840.

- ◆ Pappone C, Mecarocci V, Manguso F, Ciconte G, Vicedomini G, Sturla F, Votta E, Mazza B, Pozzi P, Borrelli V, Anastasia L, **Micaglio E**, Locati E, Monasky MM, Lombardi M, Calorie Z, Santinelli V. New electro-mechanical substrate abnormalities in high-risk patients with Brugada syndrome. *Heart Rhythm*. 2020 Apr;17(4):637-645. Doi: 10.1016/j.hrthm.2019.11.019. Epub 2019 Nov 19. PMID: 31756528.

- ◆ Monasky MM, **Micaglio E***, Giachino D, Ciconte G, Giannelli L, Locati ET, Ramondini E, Cotugno R, Vicedomini G, Borrelli V, Ghiroldi A, Anastasia L, Pappone C. Genotype-Phenotype Correlation in a Family with Brugada Syndrome Harboring the Novel p.G1n371 * Nonsense Variant in the *SCNSA* Gene. *Int J Mol Sci*. 2019 Nov 6;20(22):5522. Doi: 10.3390/ijms20225522. PMID: 31 698696; PMCID: PMC6888117. *Co-first author

- ◆ Ciconte G, Santinelli V, Vicedomini G, Borrelli V, Monasky MM, **Micaglio E**, Giannelli L, Negro G, Giordano F, Mecarocci V, Mazza BC, Locati E, Anastasia L, Calorie Z, Pappone C. Non-invasive assessment of the arrhythmogenic substrate in Brugada syndrome using signal-averaged electrocardiogram: clinical implications from a prospective clinical trial. *Europace*. 2019 Dec 1 ;21(12):1900-1910. Doi: 10.1093/europace/eiiz295. PMID: 31647530

- ◆ Ciconte G, Monasky MM, Santinelli V, **Micaglio E**, Vicedomini G, Anastasia L, Negro G, Borrelli V, Giannelli L, Santini F, De Innocentiis C, Rondine R, Locati ET, Bernardini A, Mazza BC, Mecarocci V, Čalović Z, 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. *Eur Heart J*. 2020 Nov 21: ehaa942. Doi: 10.1093/Eur Heart/ehaa942. Epub ahead of print. PMID: 33221895

Pappone C, Monasky MM, **Micaglio E**, Ciconte G. Right ventricular electro-mechanical abnormalities in Brugada syndrome: is this a cardiomyopathy? *Eur Heart J Suppl*. 2020 Jun; 22 (Suppl E): E101-K104. Doi: 10.1093/Eur Heart J/suaa071. *Spud* 2020 Mar 25. PMID: 32523450; PMCID: PMC7270919.

Monasky MM, **Micaglio E**, Ciconte G, Pappone C. Brugada Syndrome: Oligogenic or Mendelian Disease? *Int J Mol Sci*. 2020 Mar 1; 21 (5): 1687. Doi: 10.3390/ijms21051687. PM ID: 3212 523; PMCID: PMC7084676. *Co-first author

Vionello E, Dozio E, Bandera F, Frolidi M, **Micaglio E**, Lamont I, Tacchini L, Schmitz G, Corsi Romanelli MM. Correlative Study on Impaired Prostaglandin E2 Regulation in Epicardial Adipose Tissue and its Role in Maladaptive Cardiac Remodeling via EPAC2 and ST2 Signaling in Overweight Cardiovascular Disease Subjects. *Int J Mol Sci*. 2020 Jan 14; 21(2):520. Doi: 10.3390/ijms21020520. PMID: 31947646; PMCID: PMC7014202.

Micaglio E, Andronache AA, Camera P, Monasky MM, Locati ET, Pirola B, Presi S, Carminati M, Feriari M, Giamberti A, Pappone C. Novel *JAG1* Deletion Variant in Patient with Atypical Alagille Syndrome. *Int J Mol Sci*. 2019 Dec 11;20(24):6247. Doi: 10.3390/ijms20246247. PMID: 31 835735; PMCID: PMC6940840.

Pappone C, Mecarocci V, Manguso F, Ciconte G, Vicedomini G, Sturla F, Votta E, Mazza B, Pozzi P, Borrelli V, ◆Anastasia L, **Micaglio E**, Locati E, Monasky MM, Lombardi M, Calorie Z, Santinelli V. New electro-mechanical substrate abnormalities in high-risk patients with Brugada syndrome. *Heart Rhythm*. 2020 Apr;17(4):637-645. Doi: 10.1016/j.hrthm.2019.11.019. Epub 2019 Nov 19. PMID: 31756528.

Monasky MM, **Micaglio E***, Giachino D, Ciconte G, Giannelli L, Locati ET, Ramondini E, Cotugno R, Vicedomini G, Borrelli V, Ghiroldi A, Anastasia L, Pappone C. Genotype-Phenotype Correlation in a Family with Brugada Syndrome Harboring the Novel p.G1n371 * Nonsense Variant in the *SCNSA* Gene. *Int J Mol Sci*. 2019 Nov 6;20(22):5522. Doi: 10.3390/ijms20225522. PMID: 31 698696; PMCID: PMC6888117. *Co-first author

Ciconte G, Santinelli V, Vicedomini G, Borrelli V, Monasky MM, **Micaglio E**, Giannelli L, Negro G, Giordano F, Mecarocci V, Mazza BC, Locati E, Anastasia L, Calorie Z, Pappone C. Non-invasive assessment of the arrhythmogenic substrate in Brugada syndrome using signal-averaged electrocardiogram: clinical implications from a prospective clinical trial. *Europace*. 2019 Dec 1 ;21(12): 1900- 1910. Doi: 10.1093/europace/eiiz295. PMID: 31647530.

- ◆ Bosè F, Renna LV, Fossati B, Arpa G, Labate V, Milani V, Botta A, **Micaglio E**, Meola G, Cardani R. *TNNT2* Missplicing in Skeletal Muscle as a Cardiac Biomarker in Myotonic Dystrophy Type 1 but Not in Myotonic Dystrophy Type 2. *Front Neurol.* 2019 Sep 27; 10:992. Dot: 1 0.3389/fneur.2019.00992. PMID: 31611837; PMCID: PMC6776629.
- ◆ **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 *SCNSA* p.W697X Nonsense Mutation Segregation in a Family with Brugada Syndrome. *Int J Mol Sci.* 2019 Oct 4; 20(i 9):4920. Dot: 10.3390/ijris20 f 94920. PMID: 31590245; PMCID: PMC6801452.
- ◆ Monasky MM, **Micaglio E***, Vicedomini G, Locati ET, Ciconte G, Giannelli L, Giordano F, Crisà S, Vecchi M, Borrelli V, Ghiroldi A, D'Imperio S, Di Resta C, Benedetti S, FeiTal'1 M, Santinelli V, Anastasia L, Pappone C. Comparable clinical characteristics in Brugada syndrome patients harboring *SCN5A* or novel *SCN10A* variants. *Europace.* 2019 Oct I; 21 (10):1550-1558. Doi: 10.1093/europace/euz1 86. PMID: 31292628. **'Co-first author**
- ◆ **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. Novel *SCNSA* Frameshift Mutation in Brugada Syndrome Associated With Complex Arrhythmic Phenotype. *Front Genet.* 2019 Lun 6; 10:547. Doi: 10.3389/fgcne.2019.00547. PMID: 31231430; PMCID: PMC656586 J.
- ◆ Monasky MM, **Micaglio E***, Ciconte G, Benedetti S, Di Resta C, Vicedomini G, Borrelli V, Ghiroldi 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 *SCNSA* Gene. *Front Physiol.* 2019 May 28; 10:666. Doi: 10.3389/fphys.2019.00666. PM ID: 31191357; PMCID: PMC6546918. •co-first author
- ◆ **Micaglio E**, Monasky MM, Ciconte G, Vicedomini G, Conti M, Mecarocci V, Giannelli L, Giordano F, Pollina A, Saviano M, Crisà S, Borrelli V, Ghiroldi A, D'Imperio S, Di Resta C, Benedetti S, Ferrari M, Santinelli V, Anastasia L, Pappone C. *SCNSA* Nonsense Mutation and *NF1* Frameshift Mutation in a Family With Brugada Syndrome and Neurofibromatosis. *Front Genet.* 2019 Feb 15; 10:50. Doi: 10.3389/fgene.2019.00050. PMID: 30828344; PMCID. PMC6384234.
- ◆ Monasky MM, Pappone C, Piccoli M, Ghiroldi A, **Micaglio E**, Anastasia L. Calcium in Brugada Syndrome: Questions for future Research. *Front Physiol.* 2018 Aug 10; 9:1088. Doi: 10.3389/fphys.2018.01088. PMID: 30147658; PMCID: PMC6095984.
- ◆ Fabbian F, Melandri R, Borsetti G, **Micaglio E**, Pala M, De Giorgi A, Menegatti AM, Boccafogli A, Manfredini R. Color-coding triage and allergic reactions in an Italian ED. *Am J Emerg Med.* 2012 Jun;30(5):826-9. Doi: 10.1016/j.ajcin.2012.02.002. PMID: 22676922.

E- Book chapters:

- ◆ **Micaglio E**, Locati ET, Pappone C. Updated in Genetics of Drug-related arrhythmias, March 5th 2021, <https://meddocsonline.org/an-ebook-on-vascular-diseases-volume-3.html#>

Published abstracts:

Micaglio E, Ciconte G, Monasky MM, Vicedomini G, Mecarocci V, Giannelli L, Giordano F, Pollina AV, Saviano M, Crisà S, Borrelli V, Ghiroldi A, D'Imperio S, Di Resta C, Benedetti S, Ferrari M, Santinelli V, Anastasia L, Pappone C.

“Familial association of both molecularly confirmed type 1 Neurofibromatosis and Brugada syndrome”. European Journal of Human Genetics volume 27, pages 1814—1920 (2019). The 52nd European Society of Human Genetics (ESHG) Conference. Gothenburg, Sweden, 2019.

Micaglio E, S. Benedetti, S. Marelli, A. G. Pini, R. Cotugno, M. M. Monasky, G. Ciconte, P. Carrera, C. Pappone. “VUS or now-VUS in *ACTA2*?” European Journal of Human Genetics volume 27, pages 1814—1920 (2020). The 53rd European Society of Human Genetics (ESHG) Conference, Glasgow, Scotland, 2020. Conference online due to Covid-19 pandemic, 2020

Micaglio E, F. Romani, M. Monasky, P. Carrera, M. Zanussi, M. Di Mascio, G. N. Casari, F. Martinelli — Boneschi, S. Presi, C. Pappone. “Mosaic *TP53* mutation in a patient with familial and personal history of breast, gastric and bowel cancers”. European Journal of Human Genetics volume 27, pages 1814—1920 (2021). The 53rd European Society of Human Genetics (ESHG) Conference online due to Covid-19 pandemic, 2021.

C. Rutigliani, G. Ciconte, **Micaglio E**, M. Monasky, S. Benedetti, G. Casari, E. T. Locati, C. Pappone “Clinical relevance of *SCNSA* heterozygous mutations in drug-related QT prolongation” European Journal of Human Genetics volume 27, page 192 I (2021). The 53rd European Society of Human Genetics (ESHG) Conference online due to Covid-19 pandemic, 2021.

Micaglio E, D'Imperio S, Monasky M, Marcolin C, Locati E.T., Pappone C “Genotype - phenotype correlations in five patients harboring *SEI1/PINA 1* mutations and previously showing a severe COVID-19 infection” European Journal of Human Genetics volume 27, page 1921 (2022). The 54th European Society of Human Genetics (ESHG) 1 I- 14 June 2022, Austria Center, Vienna (Austria)

Micaglio E, Pappone C, Boccellino A, Villa M. Negro G. Locati ET, Ciconte G “The Long QT syndrome in patients with cardiac arrest is associated with a substrate in the pericardial cavity” European Journal of Human Genetics volume 27, page 1921 (2023). The 55th European Society of Human Genetics (ESHG) 14- 16 June 2023, Scottish Event Campus, Glasgow (Regno Unito)

INVITED PRESENTATIONS IN MEDICAL SYMPOSIA

- ◆ Fabbian F, **Micaglio E**, et al “A case of persistent epistaxis”, FADOI symposium, Bologna (Italy); 25/02/2012
- ◆ Pala M, Fabbian F, **Micaglio E** et al. “Triage, color-code and allergic reactions: one-year observational study at the emergency department of Ferrara, Italy”, European Symposium of Internal Medicine, Rome (Italy) 30/10/2012
- ◆ Micaglio E, M. Cassina et al: “Extreme clinical variability associated with 19p13.2 microduplication”: 24th symposium of Italian Human Genetics Society; Rome (Italy); 28/09/2013
- ◆ Cassina M, **Micaglio E**, et al. “Prevention of congenital malformation with folic acid intake: our experience” Superior Health Institute, Rowe (Italy); 10/12/2013
- ◆ Cassina M, **Micaglio E**, et al. “Life quality in paediatric patients affected by Neurofibromatosis type I” NFI European symposium, Barcelona (Spain); 30/06/2014

- ◆ Trevisson E, Cassina M, **Micaglio E**, et al. “Recurrent microduplications at Xp22.31 are not sufficient to convey a disease phenotype”, European Society of Human Genetics Symposium, Glasgow (United Kingdom); 06/06/2015
- ◆ **Micaglio E** “Heart, lung, anorectal malformation, psychomotor delay and molar tooth sign: a case report” European Congress of Clinical Dysmorphology, Rome (Italy); 18/11/2015
- ◆ **Micaglio E**. “State of art about the role of Array-CGH in detection of genomic imbalances in fetuses with increased nuchal translucency” Training course on prenatal diagnosis, Bologna (Italy); 22/12/2015
- ◆ Di Pierro V, Wischmeijer T A, **Micaglio E**. “Ventricular fibrillation as presentation symptom in an adolescent with Marfan syndrome” European Society of Human Genetics Symposium, Barcelona (Spain) ; 21/05/2016
- ◆ Severi G, **Micaglio E**, et al. “Bleb rubber blue nevus can be caused by glomulin gene heterozygous mutations” Italian symposium on Human and Medical Genetics, Rome, 21-24 November 2017
- ◆ Fumini V, Zuccarello D, **Micaglio E**, et al. “The importance of considering Shwachman Diamond Syndrome in differential prenatal diagnosis of a short ribs condition” Italian symposium on Human and Medical Genetics, Rome, 21-24 November 2017
- ◆ **Micaglio E**. Genetic Bases of cardiovascular pathology: from molecular pathology to pathophysiology (moderator Prof. M. Corsi Romanelli) IRCCS Policlinico San Donato, Milan 11/09/2018
- ◆ **Micaglio E**. Genetic bases of arrhythmogenic syndromes (Brugada and QT Longo), moderator Prof. Carlo Pappone: IRCCS Policlinico San Donato, Milan, 29/10/2018
- ◆ **Micaglio E**. Genetics of predisposition to Schwannoma. Fundraising event organized by the "Butterfly" Association for research on Schwannomatosis. Congress Hall Via Piero Della Francesca 125, Milan, 06/04/2019
- ◆ **Micaglio E**. Genetics of neural tube defects. General Assembly of the Italian Association of Arnold Chiari Syndrome, San Raffaele Hospital, Milan, 30/04/2019
- ◆ **Micaglio E**, Ciconte G, et al. Familial association of both molecularly confirmed type 1 Neurofibromatosis and Brugada syndrome, European Society of Human Genetics Symposium, Gothenburg (Sweden), 15 - 18 June 2019
- ◆ Murano C, Binda A, Lucano D, **Micaglio E** et al. Two novel *SCN5A* loss of function mutations affect patients with severe arrhythmogenic syndromes, Italian Society of Physiology Symposium. Bologna (Italy), 10-13 September 2019.
- ◆ **Micaglio E**. The role of genetic assessment in heart channelopathy, Master on Clinical Cardiology. April the 5th 2020, IRCCS Policlinico San Donato, Milan (Italy)
- ◆ Rusconi D, **Micaglio E** et al, variabilità fenotipica della mutazione E258K in *MYBP3* in una famiglia con cardiomiopatia ipertrofica (HCM), Italian Symposium of Cardiology, 18/12/2020, Rome (Italy). Winner of “2020 best oral communication award” of Italian Cardiology Society
- ◆ **Micaglio E**: Controversie in Cardiologia, Edizione 2021: “Cardiomiopatia Dilatativa: il ruolo del genetista ha superato quello del clinico?” September 4th 2021, Four Season Hotel, Milan (Italy)
- ◆ **Micaglio E**: “Genetics of Right Ventricle diseases: state of art” April 28th 2022, IMTC Meeting Room, Policlinico San Donato, San Donato Milanese (MI)
- ◆ **Micaglio E** “Focus on Ebstein anomaly: do genes matter?” May 13rd 2022, Tenth Italian Meeting on Adult with Congenital Heart Disease, Crowne Plaza Hotel Milan Linate, San Donato Milanese (Italy)
- ◆ Frosio A, Melgari D, **Micaglio E** et al: “Functional analysis of a novel *SCN1A* mutation found in a patient affected by Brugada syndrome” European Electrophysiology Meeting, June 3rd — 5th, 2022 Toledo (Spain)
- ◆ **Micaglio E**, Severi G “Focus on heart embryology and its clinical implication for patients affected by dysmorphic syndromes”, IRCCS Policlinico S. Donato, 25th May 2023

STATS (updated July 25" 2023):

Total publications: 63

Publications as first author: 30 Publications as co-author: 32

Total impact factor (2023, published full text only): 181, 3

Medium impact factor (2023, published full text only): 18

H index (2023): 12

TEACHING ACTIVITY

Academic Year	University	Topic	Number of hours
2020	"Statale" of Milan	Dysmorphology	6 (3 lessons)
2020	"Vita — Salute San Raffaele" of Milan	Cardiogenetics	8 (4 lessons)
2020	"Vita — Salute San Raffaele" of Milan	Clinical Genetics	4 (Master)
2021	"Statale" of Milan	Dysmorphology	6 (2 lessons)
2021	"Vita — Salute San Raffaele" of Milan	Cardiogenetics	10 (5 lessons)
2021	"Statale" of Milan	Prenatal Diagnosis	4 (Master)
2021	"Vita — Salute San Raffaele" of Milan	Cardiogenetics	2 (Master)
2022	"Vita — Salute San Raffaele" of Milan	Cardiogenetics	10 (5 lessons)
2022	"Statale" of Milan	Prenatal Diagnosis	4 (Master)
2022	"Statale" of Milan	Dysmorphology	3 (1 lesson)
2022	"Nova" of Lisbon	Pompe disease	1 (1 lesson)
2023	"Vita — Salute San Raffaele" of Milan	Cardiogenetics	8 (4 lessons)
2023	"Vita — Salute San Raffaele" of Milan	Dysmorphology	3 (1 lesson)

STUDENTS

Name	Year	Dr. Micaglio's role	Project	Student position	Notes
Flavio Mastrocinque	2019	External reviewer for the doctoral thesis	Role of Genetics in the clinical workup of Brugada syndrome	PhD student	Project chosen for publication by Naples University press
Angelo Bianchi	2019	Primary mentor and direct supervisor	Genotype - Phenotype correlation in a cohort of 36 patients affected by type 1 myotonic dystrophy	MD student	Project chosen for publication by Milan "Statale" University press
Cristina Iniziato	2020	External reviewer for the doctoral thesis	Clinical role of epidemiologic data in 698 consecutive Italian patients affected by Brugada syndrome	Ph D student	In collaboration with Duke University of Singapore

Flavio Mastrocinque	2020	External reviewer for the doctoral thesis	Role of transcriptomics in the clinical workup of Brugada syndrome	Ph D student	In collaboration with Duke University of Singapore
Federico Romani	2021	Primary mentor and direct supervisor	Role of Omics for patient affected by Brugada syndrome	MD student	In collaboration with "Vita — Salute San Raffaele" University of Milan
Giovanna Bevilacqua	2021	Primary mentor	Training for Medical Genetics residency	Molecular biologist	Test in October 2021

I attended the Cardiogenetics training course at Manchester University from May 20th to May 23rd 2023 (Prof. William Newman and Prot. Bart Loeys)

JOURNALS

Associate Editor for "Frontiers in Pediatrics" (Impact factor 2023:3,569)

Reviewer for "Frontiers in Genetics" (Impact factor 2023: 4,772)

Reviewer for "Frontiers in Pediatrics" (Impact factor 2023:3,569)

Reviewer for "Frontiers in Cardio-Vascular Medicine" (Impact factor 2023: 6,050)

Reviewer for "Obese" (Impact factor 2023: 3,742)

LANGUAGES

Italian: mother tongue

English: fluent for spoken communication, advanced scientific reading comprehension, high-level writing skills

Spanish: moderate

French: moderate

COMPUTER SKILLS

* Experience using bioinformatics programs (Database of genomic variants. ISCA, Decipher, Map Viewer, LOVD, Mutalyzer, BLAST, Varsome). 2015-Present.

* Certification of "professional user" of the Varsome program and some of its expansions (SIFT, Provean, EIGEN). 2017-Present.

t Experience in the use of reproductive toxicology databases (Reprotox, Micromedex). 2016-Present.

t Experience with the ICAROS program (for the reporting of classical cytogenetic analysis). 2018-Present.

+ EMBL-EBI online training course for Swiss-Prot software (April-May 2020).

COLLABORATIONS

Private Practice "Santa Maria Maddalena", via Gorizia 2, Occhiobello (RO), Italy

Cardiological Study "Locati", viale Beatrice D'Este 20, Milan (MI), Italy

SCIENTIFIC SOCIETIES

Member of the Italian Society of Human Genetics (SIGU)
Member of the Italian Working Group of Oncological Genetics (internal body of SIG U)
Member of American College of Medical Genetics (ACMG)
Member of European Human Genetics Society (ESHG)
Sigma XI Honour Society at Cornell University (subscription number 7679970)

BEING AWARE OF ALL POSSIBLE CONSEQUENCES, I DECLARE THAT ALL I WROTE IN THIS CV IS THE TRUTH.

I AUTHORIZE AS WELL THE TREATMENT OF MY PERSONAL DATA ACCORDING TO THE ITALIAN LAW (30/06/2003, N° 196 "Protezione in materia di dati personali").

IN FAITH

San Donato Milanese, 25/07/2023

Dr. Emanuele Micaglio