



Angela Mastronuzzi

Nationality: Italian

Gender: Female

Date of birth: 19 December 1977

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WORK EXPERIENCE

Head of Neuro-Oncology Unit

IRCCS Bambino Gesù Children's Hospital [05/2017 - Current]

City: Rome

Country: Italy

Staff Physician - High specialization in Neuro-Oncology

IRCCS Bambino Gesù Children's Hospital [01/2012 - 04/2017]

City: Rome

Country: Italy

IRCCS Staff Physician

IRCCS Bambino Gesù Children's Hospital [05/2010 - 12/2011]

City: Rome

Country: Italy

Staff Physician

IRCCS Policlinico San Matteo - Pavia University [10/2008 - 04/2010]

City: Pavia

Country: Italy

Fellowship: "Human mesenchymal stem cells: the relationship between regenerative and immunoregulatory activities"

IRCCS Policlinico San Matteo - Pavia University [08/2008 - 09/2008]

City: Pavia

Country: Italy

Fellowship: "Research and development as an instrument of innovation for economic and social context, to help young graduates and link University and society"

IRCCS Policlinico San Matteo - Pavia University [01/2008 - 07/2008]

City: Pavia

Country: Italy

Deputy Director - appointed by Rector Lorenzo Ornaghi

“San Luca / A. Barelli” Women’s University College, Catholic University of the Sacred Heart [2001 - 2005]

City: Rome

Country: Italy

EDUCATION AND TRAINING

Post-graduate studies - Master Degree in Direction and Management of Health

Lum Jean Monnet University [2020]

Location: Camtasia (BA) (Italy)

Post-graduate studies - Master Degree in Child Neurology

Tor Vergata University [2018]

Location: Rome (Italy)

Post-graduate studies - Honorary Medical Observer: Division of Neuro-Oncology

St. Jude Children’s Research Hospital [2017]

Location: Memphis (United States)

PhD - Molecular Medicine

Sapienza University [2015]

Location: Rome (Italy)

Specialization - Pediatrics

Catholic University of the Sacred Heart [2007]

Location: Rome (Italy)

Medical Degree - Medicine and Surgery

Catholic University of the Sacred Heart [2002]

Location: Rome (Italy)

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

QUALIFICATIONS

ASN: habilitation as Associate Professor

[2018-2028]

Qualification – PALS and PBLS

[2005 - Current]

Certification in Pediatric Neurology - Società Italiana di Neurologia Pediatrica (Provider Biomedica s.r.l.)

[2020]

Basic online training course with certification in pediatric neurology

Pediatrics Genetics Course - Mariani Onlus Foundation

[2006]

Pediatrics Genetics Course online: "Methodological approach to children with malformative syndromes", II edition

ACADEMIC APPOINTMENTS

Faculty Member for PhD research students on network oncology and precision medicine - Sapienza University of Rome

[2020 - Current]

Contract Professor in Pediatrics

Unicamillus International Medical University in Rome

[AY 2021/2022 - Current]

TEACHING EXPERIENCE

Master: Pediatric Hematology and Oncology – Alma Mater, University of Bologna

[2023 - Current]

Supervisor, Discussant, and Evaluator for numerous thesis for Residents, Medical students and PhD (different Universities)

[2018 - Current]

ICTH PhD: Pediatric Neuro-oncology TBD - Federico II University of Naples

[2021]

Master: Child Neurology - Bambino Gesù Children's Hospital, Rome

[2021]

Master: Child Neurology - Tor Vergata University of Rome

[2020]

PhD: Advanced Training Course in Oncofertility - Sapienza University of Rome

[2020 - Current]

Cycle 1 of Courses in Pediatric Neurosurgery - Catholic University of the Sacred Heart, Rome

[2018]

Master: Pediatric Endocrinology and Diabetology - Tor Vergata University of Rome

[2016]

"Nutrition and Cancer" training course - Celimontano College University Rome

[2015]

Master: Pediatric Clinical Psychology - LUMSA University of Rome

[2015]

Master: Pediatric Endocrinology and Diabetology - Tor Vergata University of Rome

[2014]

Course on Neuroradiology in Pediatric Endocrinology - Bambino Gesù Children's Hospital, Rome

[2013]

Master: End of Life Care - Catholic University of the Sacred Heart, Rome

[2013]

SOCIETY MEMBERSHIPS

Member of The Italian Association of Pediatric Haematology and Oncology (AIEOP)

[2007 - Current]

Treasurer of The Italian Association of Pediatric Haematology and Oncology (AIEOP)

[2015 - 2018]

Member of the Board of the Italian Foundation for Pediatric Haematology and Oncology (FIEOP)

[2015 - 2018]

Member of Italian Society Genetic Diseases and Congenital Disabilities (SIMG E PED)

[2022 - Current]

Member of The Italian Association of Pediatric Haematology and Oncology (AIEOP)

[2007 - Current; Treasurer 2016-2018; Board member 2022-2024]

Member of the Posterior Fossa Society (PFS)

[2019 - Current]

Member of Society of Neuro-Oncology (SNO)

[2016 - Current]

Member of European Association of Neuro-Oncology (EANO)

[2023 - Current]

Member of the Italian Society of Pediatrics (SIP)

[2015 - Current]

Member of the International Society of Pediatric Oncology (SIOP)

[2015 - Current]

Member of International Society of Pediatric Oncology - Europe (SIOP-E)

[2015 - Current]

Member of Innovative Therapies for Children with Cancer (ITCC)

[2012 - Current]

WORKING GROUP

Board Member of the Italian Virtual Institute of Neuro-Oncology

[2023 - Current]

Member of the Italian Working Group on long-term effects of cancer therapies (AIEOP)

[2022 - Current]

Member of EUROPEAN REFERENCE NETWORK for Genetic Tumour Risk Syndromes

[2021 - Current]

Member of Innovative Therapies for Children with Cancer in Europe - Brain Tumor Working Group

[2020 - Current]

Scientific Consulting for AIEOP Discovery

[2020 - Current]

Member of the EUROPEAN REFERENCE NETWORK FOR PAEDIATRIC CANCER

[2017 - Current]

Member of the European Working Group on Brain Tumor (SIOP-E)

[2015 - Current]

Member of ALLIANCE AGAINST CANCER in particular member of glioblastoma WG and nutritional WG

[2015 - Current]

Member of International BFM Study Group (I-BFM)

[2013 - Current]

Member of the Italian working group on tumors of the central nervous system (AIEOP)

[2011 - Current]

Member of the Italian working group on non-lymphoblastic acute leukemias (AIEOP)

[2013 - 2016]

OTHER RELEVANT EXPERIENCE AND INFORMATION

Member - the Ethics Committee for clinical trials in the pediatric field

the Italian Medicines Agency (AIFA) by the Ministry of Health with a Ministerial Decree of 2 March 2022

Country: Italy

HCP Evaluator for ERN

[2023 - Current]

Board Member and Treasure for Associazione Ludovico Necchi – Alumni Cattolica

[2023 - Current]

Invited pediatric neuro-oncology expert for the Pediatric Neuro-oncology International Tumor Board

St. Louis Children's Hospital

[2022 - Current]

National scientific habilitation as Associate Professor MED/38, 06/G1 – ASN 2016-2018

[2018 - 2028]

National scientific habilitation as Full Professor MED/38, 06/G1 – ASN 2021-2023

[2023 - 2034]

AWARDS AND HONORS

"Aurora Cannolicchio" Sebatia-Ter International Award

[2019]

Motivation: "The exceedingly high scientific level for research always carried out at a high level of excellence, the profuse care and commitment with admirable empathy towards young patients make the Pediatric Neuro-oncology Unit of the Bambino Gesù Children's Hospital in Rome, a precious and irreplaceable point of reference for many families affected by very serious and touching events. A deep commitment to the point that it is often tiring for the operators themselves, inevitably involved in dramatic events that cannot fail to affect the team members, who are still required to maintain clarity and strength of mind in their difficult tasks carried out in often difficult situations."

"Fondazione Atena" Research Award

[2019]

Motivation: "Prize for research in pediatric Neuro-Oncology and in particular for studies on cellular immunotherapy."

RESEARCHER CODES

Web of Science Researcher ID: K-7875-2016

Scopus Author ID: 25626691200

Orcid <https://orcid.org/0000-0002-4408-2373>

RESEARCH ACTIVITIES

Keywords:

Pediatric oncology-Hematology

Pediatric central nervous system tumors

Cell and gene therapy

Target therapy and immunotherapy

Phase I studies

Molecular biology on pediatric cancers

Cancer predisposition syndromes

Brief description:

Head of the Neuro-Oncology Unit at Bambino Gesù Children's Hospital in the Area of Hematology, Oncology, Cell Therapy, Gene Therapies, and Hemopoietic Transplant. Clinical experience in diagnosis and treatment of pediatric onco-hematologic patients with a particular interest in central nervous system tumors. Extensive expertise in innovative treatments for pediatric cancer with a specific focus on phase I clinical trials, pediatric and AYA brain tumors, target therapy, cancer predisposition syndromes, next-generation sequencing, molecular findings, cell and gene therapy, and cancer survivorship. Highly committed to research activities with more than 175 publications in internationally indexed journals; H1 23. Author of numerous chapters in pediatric and oncological books. An active member of national and international scientific societies and engaged in several specific working groups. Interests

include a strong translational imprint, personalized treatment, multidisciplinary approaches to pediatric cancers, and innovation in the management of children with cancer. Principal Investigator and sub-investigator for more than 40 phase I/II/III trials and protocols.

Peer reviewer, editor, associate editor, guest editor, and member of the editorial board for numerous journals on pediatric oncology, pediatric hematology, and neuro-oncology topics. Invited speakers and scientific committees for different national and international meetings. Invited scientific reviewer for numerous societies (Estonian Research Council, Children with Cancer UK, etc.). Member of the Scientific Committee of different charities. Highly committed to fundraising. Principal Investigator of numerous grants, including at least 4 of them funded by the European Union. Outstanding capability in fundraising. Contract Professor for the International University Unicamillus. Principal Investigator for Bambino Gesù Children's Hospital for many European projects funded by European Community. Speaker in numerous national and international congresses. Active national and international cooperation.

Selected publications:

1. **GD2-CART01 for Relapsed or Refractory High-Risk Neuroblastoma.** Del Bufalo F, De Angelis B, Caruana I, Del Baldo G, De Ioris MA, Serra A, **Mastronuzzi A**, Cefalo MG, Pagliara D, Amicucci M, Li Pira G, Leone G, Bertaina V, Sinibaldi M, Di Cecca S, Guercio M, Abbaszadeh Z, Iaffaldano L, Gunetti M, Iacovelli S, Bugianesi R, Macchia S, Algeri M, Merli P, Galaverna F, Abbas R, Garganese MC, Villani MF, Colafati GS, Bonetti F, Rabusin M, Perruccio K, Folsi V, Quintarelli C, Locatelli F; Precision Medicine Team-IRCCS Ospedale Pediatrico Bambino Gesù. *N Engl J Med.* 2023 Apr 6;388(14):1284-1295.
2. **Targeted therapy for pediatric diffuse intrinsic pontine glioma: a single-center experience.** Del Baldo G, Carai A, Abbas R, Cacchione A, Vinci M, Di Ruscio V, Colafati GS, Rossi S, Diomedi Camassei F, Maestro N, Temelso S, Pericoli G, De Billy E, Giovannoni I, Carboni A, Rinelli M, Agolini E, Mackay A, Jones C, Chiesa S, Balducci M, Locatelli F, **Mastronuzzi A.** *Ther Adv Med Oncol.* 2022 Sep 6;14:17588359221113693.
3. **Dual IGF1R/IR inhibitors in combination with GD2-CAR T-cells display a potent anti-tumor activity in diffuse midline glioma H3K27M-mutant.** de Billy E, Pellegrino M, Orlando D, Pericoli G, Ferretti R, Businaro P, Ajmone-Cat MA, Rossi S, Petrilli LL, Maestro N, Diomedi-Camassei F, Pezzullo M, De Stefanis C, Bencivenga P, Palma A, Rota R, Del Bufalo F, Massimi L, Weber G, Jones C, Carai A, Caruso S, De Angelis B, Caruana I, Quintarelli C, **Mastronuzzi A**, Locatelli F, Vinci M. *Neuro Oncol.* 2022 Jul 1;24(7):1150-1163.
4. **Posterior fossa ependymoma in neurodevelopmental syndrome caused by a de novo germline pathogenic POLR2A variant.** Paparella R, Caroleo AM, Agolini E, Chillemi G, Miele E, Pedace L, Rinelli M, Pizzi S, Boccuto L, Colafati GS, Lodi M, Cacchione A, Carai A, Digilio MC, Tomà P, Tartaglia M, **Mastronuzzi A.** *Am J Med Genet A.* 2022 Sep;188(9):2796-2802.
5. **Upfront treatment with mTOR inhibitor everolimus in pediatric low-grade gliomas: A single-center experience.** Cacchione A, Lodi M, Carai A, Miele E, Tartaglia M, Megaro G, Del Baldo G, Alessi I, Colafati GS, Carboni A, Boccuto L, Diomedi Camassei F, Catanzaro G, Po A, Ferretti E, Pedace L, Pizzi S, Folgiero V, Pezzullo M, Corsetti T, Secco DE, Cefalo MG, Locatelli F, **Mastronuzzi A.** *Int J Cancer.* 2020 Dec 15.
6. **Delayed referral of pediatric brain tumors during COVID-19 pandemic.** Carai A, Locatelli F, **Mastronuzzi A.** *Neuro Oncol.* 2020 Dec 18;22(12):1884-1886.
7. **Modeling medulloblastoma in vivo and with human cerebellar organoids.** Ballabio C, Anderle M, Ganesello M, Lago C, Miele E, Cardano M, Aiello G, Piazza S, Caron D, Gianni F, Ciolfi A, Pedace L, **Mastronuzzi A**, Tartaglia M, Locatelli F, Ferretti E, Giangaspero F, Tiberi L. *Nat Commun.* 2020 Jan 29;11(1):583.
8. **Transcriptional profiling of medulloblastoma with extensive nodularity (MBEN) reveals two clinically relevant tumor subsets with VSNL1 as potent prognostic marker.** Korshunov A, Okonechnikov K, Sahm F, Ryzhova M, Stichel D, Schimpf D, Ghasemi DR, Pajtler KW, Antonelli M, Donofrio V, **Mastronuzzi A**, Rossi S, Camassei FD, Buccoliero AM, Haberler C, Slavc I, Dahiya S, Casalini B, Sievers P, Meyer J, Kumirova E, Zheludkova O, Golanov A, Jones DTW, Pfister SM, Kool M, von Deimling A. *Acta Neuropathol.* 2020 Mar;139(3):583-596.
9. **Adoptive Immunotherapy Using PRAME-Specific T Cells in Medulloblastoma.** Orlando D, Miele E, De Angelis B, Guercio M, Boffa I, Sinibaldi M, Po A, Caruana I, Abballe L, Carai A, Caruso S, Camera A, Moseley A, Hagedoorn RS, Heemskerk MHM, Giangaspero F, **Mastronuzzi A**, Ferretti E, Locatelli F, Quintarelli C. *Cancer Res.* 2018 Jun 15;78(12):3337-3349.
10. **Direct Involvement of Cranial Nerve V at Diagnosis in Patients With Diffuse Intrinsic Pontine Glioma: A Potential Magnetic Resonance Predictor of Short-Term Survival.** Colafati GS, Voicu IP, Carducci C, Caulo M, Vinci M, Diomedi-Camassei F, Merli P, Carai A, Miele E, Cacchione A, Tomà P, Locatelli F, **Mastronuzzi A.** *Front Oncol.* 2019 Apr 4;9:204.

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Angela Mastronuzzi

11 July 2023

