

Giuseppina Catanzaro

Curriculum Vitae

Rome, Italy
30/09/2021

Part I – General Information

Full Name	Giuseppina Catanzaro
E-mail	giuseppina.catanzaro@uniroma1.it
Spoken Languages	Italian (Mother tongue), English, French

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	2006	UNICAL, Arcavacata di Rende (CS)	Degree in Pharmaceutical Chemistry and Technology
University graduation	2019	Sapienza University, Rome	Degree in Medicine and Surgery
PhD	2010	Teramo University, Teramo	PhD degree in Biotechnology
National Scientific Qualification	2020	Italian Ministry of Education, University and Research	Awarded the National Scientific Qualification for Associate Professor for the SC 06/A2, SSD MED/04 of the call 2018-2020, validity 10.01.2020-10.01.2029
Specialty	2021	Sapienza University, Rome	Clinical Pathology and Clinical Biochemistry

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2007	2010	Teramo University, Teramo	PhD student in Biotechnology
2010	2010	Teramo University, Teramo	Post-Doc Researcher at the Department of Biomedical Science
2011	2014	Bracco Imaging spa, Colleretto Giacosa (TO)	Post-Doc Researcher at Bracco Imaging spa
2014	2015	University Campus Bio-Medico, Rome	Post-Doc Researcher at the Department of Orthopaedic and Trauma Surgery
2015	2020	Sapienza University, Rome	Post-doc Researcher at the Laboratory of Oncogenomics
2021	present	Sapienza University, Rome	Medical Doctor under specialty in Clinical Pathology and Clinical Biochemistry

IIIB – Other Appointments

Start	End	Institution	Position
2011	2012	Albeda Research ApS, University of Copenhagen, Copenhagen (Denmark)	Collaboration
2015	present	Sapienza University, Rome	Participation in Italian research groups: Sapienza University (Dep. of Radiological, Oncological and Pathological Science, Dep. of Drug Chemistry and Technologies, Dep. of Molecular Medicine), Ospedale Pediatrico Bambino Gesù, University of Siena, University of Tor Vergata, Cattolica University, UNICAL
2015	present	Sapienza University, Rome	Participation in International research groups: Heidelberg University (Germany), Hopital de la Timone (Marseille, France), Clemson University (USA)
2020	present	Italian Ministry of Education, University and Research	Member of Expert Peer Reviewers for Italian Scientific Evaluation (REPRISE)

Part IV – Teaching experience

Year	Institution	Lecture/Course
2015/2016	Sapienza University	Professor of General Pathology – Degree in Medical Radiology Techniques for Imaging and Radiotherapy
2015/2017	Sapienza University	Professor of General Pathology, Course of Cellular and Molecular Basis of Life – Degree in Nursing
2017/2020	Sapienza University	Professor of Pharmacology - Degree in Nursing
2019/2020	Sapienza University	Professor of Oncology - Degree in Nursing
2020/present	Sapienza University	Professor of Microbiology – Degree in Medical Radiology Techniques for Imaging and Radiotherapy

Part V - Society memberships, Awards and Honors

Year	Title
2019-2020	Post-Doc fellowship awarded from the Department of Experimental Medicine, Sapienza University, “Circulating microRNAs and DNA (cfDNA) as novel biomarkers of response to therapy in Medullary Thyroid Carcinoma”
2015-present	Member of research group “Molecular Oncology A. Gulino”, Sapienza University, Rome
2016-present	Member of the American Association for Cancer Research

2016-present	Member of the European Association for Cancer Research
2015-present	Member of the Italian Cancer Society
2015-present	International Scientific Board Member of the European SIOP-LGG preclinical working group (International Society of Pediatric Oncology)
2016	Post-doc fellowship awarded from the Fondazione Cenci-Bolognetti, Istituto Pasteur Italia
2015	Post-doc fellowship awarded for the Fondazione Roma Project “ Non communicable diseases in the elderly: Circulating microRNAs and long non coding RNA as novel biomarkers of response to therapy in metabolic diseases”
2010	Member of the International Cannabinoid Research Society
2011-2014	Cav. Lav. “Fulvio Bracco” Award
2010-2011	Post-Doc fellowship awarded from Teramo University: “The endocannabinoid Anandamide as a biomarker of outcome in pregnancies complicated by threatened miscarriage”
2010	Travel fellowship 20th ICRS Congress (Lund, Sweden)
2008	Travel fellowship “Molecular Mechanisms in Neuroscience” (Milan, Italy)
2007-2010	Three year scholarship for the completion of PhD in Biotechnology, Teramo University
2003	Erasmus Project
2002	Canada Project

International Scientific Boards

Year Title

2015-present	International Scientific Board Member as Referee of International Scientific Journals (Biomedicines, Cancer Research, Diagnostics, Neuro-Oncology, International Journal of Molecular Sciences, Scientific Reports, Molecular Cancer, Tumor Biology, Molecular BioSystems, BMC Cancer, Cellular Physiology and Biochemistry, Cell Biology International, Nanomedicine, Cancers, Journal of Experimental & Clinical Cancer Research)
2018-present	International Scientific Board Member as Guest Editor of Special Issue “Molecular Biomarkers in Cancer and Metabolic Disease” in the International Journal of Molecular Sciences
2020-present	International Scientific Board Member as Guest Editor of Special Issue “Non-coding RNAs in Health and Disease” in Biomedicines

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2018	Role of unfolded protein response in medulloblastoma cancer stem cells maintenance: therapeutic	Ricerca Finalizzata, Ministero della Salute, Proposal code: GR-2018-12367328,	450.000,00 89.980,00 (PI)

	implications and prognostic value	Duration: 3 years	
		Principal Investigator of the Research Unit (PI): Giuseppina Catanzaro	
2018	MicroRNAs in pediatric low-grade gliomas as novel therapeutic targets and circulating biomarkers: new opportunities in disease management	Fondazione Lilli, Cosenza, Duration: 1 year Principal Investigator (PI): Giuseppina Catanzaro	4.000,00 (PI)
2017	MicroRNAs in pediatric low-grade gliomas (pLGGs): new opportunities in disease management	Sapienza University Grant, Duration: 1 year Principal Investigator (PI): Giuseppina Catanzaro	2.000,00 (PI)

Part VII – Research Activities

Keywords	Brief Description
Molecular Oncology	Characterization of the molecular events involved in tumorigenesis mainly focusing on solid tumors and deregulated pathways
Immunotherapy	Tumor therapy including immunotherapy
Hedgehog/Gli signaling pathway	Analysis of dysregulated mechanisms of the Hedgehog/Gli signaling pathway involved in neoplastic diseases
Oncosuppressor and oncogenes	Identification of novel molecules as oncosuppressor or oncogenes
microRNA and Epigenetic regulation	Identification of epigenetic networks including microRNAs in tumors
Circulating biomarkers	Analysis and discovery of circulating biomarkers (e.g. microRNAs) in cancer and metabolic disease
Metabolic diseases	Obesity, Diabetes Mellitus, Gestational diabetes mellitus
Tumors	Medulloblastoma, neuroblastoma, gliomas, lung, colorectal, thyroid cancers, prostate carcinoma
Bioinformatics analyses using omics tools	Development of large scale approaches for large-scale analysis expression data from different platforms and in different contexts
Microscopy	Light and fluorescence microscopy, especially confocal microscopy
Biochemistry	HPLC analysis
Nanoparticles	Analysis of the mechanisms of internalization and toxicity of nanoparticles on healthy and cancer cells
Metabolism	Analysis of the metabolic activity of cancer cells
Endocannabinoids	Analysis of the role of the endocannabinoid system in cancer, male infertility, immune cells

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
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Papers [international]	43	Scopus	2009	present
Papers [national]				
Books [scientific]				
Books [teaching]				

Total Impact factor	181.281
Total Citations	1110 (Scopus)
Average Citations per Product	25.81
Hirsch (H) index	19
Normalized H index*	1.58

*H index divided by the academic seniority.

Part IX–Publications

1. Filardi T., Sabato C., Lubrano C., Santangelo C., Morano S., Lenzi A., Migliaccio S., Ferretti E., **Catanzaro G.** MicroRNA modulation by dietary supplements in obesity. *Biomedicines* 2020 Nov 27; 8(12):545. IF (2020): 4.717
2. Lodi M, Boccuto L, Carai A, Cacchione A, Miele E, Colafati GS, Diomedi Camassei F, De Palma L, De Benedictis A, Ferretti E, **Catanzaro G.** Pò A, De Luca A, Rinelli M, Lepri FR, Agolini E, Tartaglia M, Locatelli F, Mastronuzzi A. [Low-Grade Gliomas in Patients with Noonan Syndrome: Case-Based Review of the Literature.](#) *Diagnostics* (Basel). 2020 Aug 12;10(8):582 IF (2020): 3.110
3. 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. [Upfront treatment with mTOR inhibitor everolimus in pediatric low-grade gliomas: A single-center experience.](#) *Int J Cancer.* 2020 Dec 15. IF (2019): 5.145
4. **Catanzaro G.**, Filardi T., Sabato C., Vacca A., Migliaccio S., Morano S., Ferretti E. Tissue and circulating microRNAs as biomarkers of response to obesity treatment strategies. *J of Endocrinological Investigation*, Accepted Publication. IF (2020): 3.397
5. Miele E., Po A., Mastronuzzi A., Carai A., Besharat Z.M., Pediconi N., Abballe L., **Catanzaro G.**, Sabato C., De Smaele E., Canettieri G., Di Marcotullio L., Vacca A., Mai A., Levrero M., Pfister S.M., Kool M., Giangaspero F., Locatelli F., Ferretti E. Downregulation of miR-326 and its host gene β -arrestin1 induces pro survival activity of E2F1 and promotes medulloblastoma growth. *Mol. Oncology*, Accepted Publication. IF (2020): 6.574
6. Po A., Citarella A., **Catanzaro G.**, Besharat Z.M., Trocchianesi S., Gianni F., Sabato C., Moretti M., De Smaele E., Vacca A., Fiori M.E., Ferretti E. Hedgehog-GLI signaling promotes chemoresistance through the regulation of ABC transporters in colorectal cancer cells. *Sci. Rep.*, Accepted publication. IF (2020):3.998
7. **Catanzaro G.**, Filardi T., Mardente S., Zicari A., Santangelo C., Lenzi A., Morano S.,

- Ferretti E. Non-coding RNA: role in gestational diabetes pathophysiology and complications, *Int J of Molecular Sciences*, Accepted publication. IF(2020): 4.183
8. Chiacchiarini M., Besharat Z.M., Carai A., Miele E., Del Baldo G., Mastronuzzi A., **Catanzaro G.**^{*,§}, Ferretti E. ^{*,§} Pediatric low-grade gliomas: molecular characterization of patient-derived cellular models. *Child's Nervous System*, Accepted publication. ^{*} **co-last** and [§] **co-corresponding**. IF (2020): 1.347.
 9. Miele E., Abballe L., Spinelli G.P., Besharat Z.M., **Catanzaro G.**, Chiacchiarini M., Vacca A., Po A., Capalbo C., Ferretti E. BRAF mutant colorectal cancer: ErbB2 expression levels as predictive factor for the response to combined BRAFi/ErbB1 inhibitors. *BMC Cancer*. Accepted publication. IF (2020): 3.288
 10. Flex E., Martinelli S., Van Dijck A., Ciolgi A., Cecchetti S., Coluzzi E., Pannone L., Andreoli C., Radio F.C., Pizzi S., Carpentieri G., Bruselles A., **Catanzaro G.** et al. Aberrant function of the C-terminal tail of HIST1H1E accelerates cellular senescence and causes premature aging. *American J of Human Genetics* 2019. Accepted publication. IF (2018): 9.025
 11. Zwergel C., Romanelli A., Stazi G., Besharat ZM., **Catanzaro G.**, Tafani M., Valente S., Mai A. Application of small epigenetic modulators in pediatric medulloblastoma. *Front Ped* 2018 Dec 3 IF (2017): 2.172
 12. Besharat ZM, Sabato C, Po A, Gianni F, Abballe L, Napolitano M, Miele E, Giangaspero F, Vacca A, **Catanzaro G***, Ferretti E. Low Expression of miR-466f-3p sustains epithelial to mesenchymal transition in Sonic Hedgehog Medulloblastoma stem cells through Vegfa-Nrp2 signaling pathway. *Front Pharmacol*. 2018 Nov 12;9:1281. ^{*} **co-last** IF (2017): 4.4
 13. Po A, Abballe L, Sabato C, Gianni F, Chiacchiarini M, **Catanzaro G**, De Smaele E, Giangaspero F, Ferretti E, Miele E, Besharat ZM. Sonic Hedgehog Medulloblastoma cancer stem cells Mirnome and Transcriptome highlight novel functional networks. *Int J Mol Sci*. 2018 Aug 8;19(8). IF (2017): 3.687
 14. **Catanzaro G.**, Besharat ZM., Miele E., Chiacchiarini M., Po A., Carai A., Marras CE., Antonelli M., Badiali M., Raso A., Mascelli S., Schrimpf D., Stichel D., Tartaglia M., Capper D., von Deimling A., Giangaspero F., Mastronuzzi A., Locatelli F., Ferretti E. The miR-139-5p regulates proliferation of supratentorial paediatric low-grade gliomas by targeting the PI3K/AKT/mTORC1 signalling. *Neuropathology and Applied Neurobiology*. In press. IF (2017): 5.347
 15. Bisicchia E., Sasso V., **Catanzaro G.**, Leuti A., Besharat ZM., Chiacchiarini M., Molinari M., Ferretti E., Viscomi MT., Chiurchiù V. Resolvin D1 Halts Remote Neuroinflammation and Improves Functional Recovery after Focal Brain Damage Via ALX/FPR2 Receptor-Regulated MicroRNAs. *Mol. Neurobiol*. 2018 Jan 22; Epub ahead of print IF (2017): 6.190
 16. **Catanzaro G.**, Besharat ZM., Chiacchiarini M., Abballe L., Sabato C., Vacca A., Borgiani P., Dotta F., Tesaro M., Po A., Ferretti E. Circulating microRNAs in elderly type 2 diabetic patients. *Int. J. of Endocrinology*. In press. IF (2017): 2.510
 17. **Catanzaro G.**, Sabato C., Russo M., Rosa A., Abballe L., Besharat ZM., Po A., Miele E., Bellavia D., Chiacchiarini M., Gessi M., Peruzzi G., Napolitano M., Antonelli M.,

- Mastronuzzi A., Giangaspero F., Locatelli F., Screpanti I., Vacca A., Ferretti E. Loss of miR-107, miR-181c and miR-29a-3p promote activation of Notch2 signaling in Pediatric High-Grade Gliomas (pHGGs). *Int. J. Mol Sci.* 2017 Dec 17; 18(12). Pii:E2742. IF (2017): 3.226
18. Miele E., Po A. Begalli F., Antonucci L., Mastronuzzi A., Marras C.E., Carai A., Cucchi D., Abballe L.; Besharat Z.M., **Catanzaro G.**, Infante P., Di Marcotullio L., Canettieri G., De Smaele E., Screpanti I., Locatelli F., Ferretti E. β -arrestin1-mediated acetylation of Gli1 regulates Hedgehog/Gli signaling and modulates self-renewal of SHH medulloblastoma Cancer Stem Cells. *BMC Cancer* 2017 July 17; 17(1):488. IF (2017): 3.288
 19. Miele E., Valente S., Alfano V., Silvano M., Mellini P., Borovika D., Marrocco B., Po A., Besharat Z.M., **Catanzaro G.**, Battaglia G., Abballe L., Zwergel C., Stazi G., Milite C., Castellano S., Tafani M., Trapencieris P., Mai A., Ferretti E. The histone methyltransferase EZH2 as a druggable target in SHH medulloblastoma cancer stem cells
a. *Oncotarget* 2017 Aug 2; 8(40):68557-68570. IF (2017): 5.168
 20. Po A., Silvano M., Miele E., Capalbo C., Eramo A., Salvati V., Todaro M., Besharat ZM., **Catanzaro G.**, Cucchi D., Coni S., Di Marcotullio L., Canettieri G., Vacca A., Stassi G., De Smaele E., Tartaglia M., Screpanti I., De Maria R. and Ferretti E. Noncanonical GLI1 signalling promotes stemness features and in-vivo growth in lung adenocarcinoma. *Oncogene* 2017 Aug 10; 36(32):4641-42652. IF (2017): 7.932
 21. Po A., Begalli F., Abballe L., Alfano V., Besharat ZM., **Catanzaro G.**, Vacca A., Napolitano M., Tafani M., Giangaspero F., Locatelli F., Ferretti E. and Miele E. β -arrestin1/miR-326 transcription unit is epigenetically regulated in Neural Stem Cells where it controls stemness and growth arrest. *Stem Cells Int.* 2017, 2017:5274171. IF (2017): 3.687
 22. **Catanzaro G.**, Curcio M., Cirillo G., Spizzirri UG., Besharat ZM., Abballe L., Vacca A., Iemma F., Picci N., Ferretti E. Albumin nanoparticles for glutathione-responsive release of cisplatin: New opportunities for medulloblastoma. *Int J Pharm.* 2017 Jan 30; 517(1-2):168-174. IF (2017): 4.220
 23. Vadalà G., Russo F., Musumeci M., D'Este M., Cattani C., **Catanzaro G.**, Tirindelli MC., Lazzari L., Alini M., Giordano R., Denaro V. A clinically relevant hydrogel based on hyaluronic acid and platelet rich plasma as a carrier for mesenchymal stem cells: Rheological and biological characterization. *J Orthop Res.* 2016 Dec 26. IF (2016): 2.807
 24. **Catanzaro G.**, Pucci M, Viscomi MT, Lanuti M, Pieroni L, Feole M, Angeletti S, Grasselli G, Mandolesi G, Bari M, Centonze D, D'Addario C, Maccarrone M. Epigenetic modifications of Dexas1 along the nNOS pathway in an animal model of multiple sclerosis, *J Neuroimmunol.* 2016 May 15; 294:32-40. IF (2015): 2.467
 25. **Catanzaro G.**, Besharat ZM, Garg N, Ronci M, Pieroni L, Miele E, Mastronuzzi A, Carai A, Alfano V, Po A, Screpanti I, Locatelli F, Urbani A, Ferretti E. microRNAs-proteomic networks characterizing human medulloblastoma-SLCs. *Stem Cells Int.* 2016, 2016:2683042 IF (2014): 2.813

26. Silvano M, Miele E, Valerio MC, Casadei L, Begalli F, Campese AF, Besharat ZM, Alfano V, Abballe L, **Catanzaro G**, Napolitano M, Vacca A, Screpanti I, Manetti C, Ferretti E and Po A. Consequences of simulated microgravity in neural stem cells: biological effects and metabolic response. *Stem Cell Res Ther*, 2015 IF (2017): 4.504
27. **Catanzaro G**, Ronci M, Pieroni L, Po A, Besharat ZM, Greco V, Levi Mortera S, Screpanti I, Ferretti E and Urbani A. Proteomic analysis of human sonic hedgehog (SHH) Medulloblastoma stem-like cells *Mol Biosystems* 2015, Jun; 11(6): 1603-11. IF (2014): 3.210
28. Canapé C, **Catanzaro G**, Terreno E, Karlsson M, Lerche MH, Jensen PR. Probing treatment response of glutaminolytic prostate cancer cells to natural drugs with hyperpolarized [5-¹³C]glutamine., *Magn Reson Med* 2014, Jun;73(6): 2296-305. IF (2014): 3.571
29. **Catanzaro G**, Chiurchiù V, Lanuti M, Fezza F, Rapino C, Maccarrone M. Detailed characterization of the endocannabinoid system in human macrophages and foam cells, and anti-inflammatory role of type-2 cannabinoid receptor. *Atherosclerosis* 2014 March; 233:55-63. IF (2014): 3.994
30. Cabella C, Karlsson M, Canapé C, **Catanzaro G**, Colombo-Serra S, Mirgaoli L, Poggi L, Uggeri F, Venturi L, Jensen PR, Lerche MH, Tedoldi F. In vitro and in vivo liver cancer metabolism observed with hyperpolarized [5-¹³C]glutamine. *J Magn Reson* 2013 Apr 26; 232C:45-52. IF 2.423
31. Bari M, Battista N, Valenza M, Mastrangelo N, Malaponti M, **Catanzaro G**, Centonze D, Finazzi-Agrò A, Cattaneo E, Maccarrone M. In vitro and in vivo models of Huntington's disease show alterations in the endocannabinoid system. *FEBS J* 2013; Jul; 280(14): 3376-88. IF 4.001
32. Oddi S, Dainese E, Sandiford S, Fezza F, Lanuti M, Chiurchiù V, Totaro A, **Catanzaro G**, Barcaroli D, De Laurenzi V, Centonze D, Mukhopadhyay S, Selent J, Howlett A, Maccarrone M. Palmitoylation of helix 8 cysteine 415: effect on membrane localisation and signalling of CB1 cannabinoid receptor. *British Journal of Pharmacology* 2012 Apr; 165(8): 2635-2651. IF 4.842
33. **Catanzaro G**, Battista N, Rossi G, Di Tommaso M, Pucci M, Pirazzi V, Cecconi S, Maccarrone M. Effect of capacitation on the endocannabinoid system of mouse sperm. *Molecular and Cellular Endocrinology* 2011 Aug 22; 343(1-2): 88-92. IF: 4.105
34. Chiurchiù V, Izzi V, D'Aquilio F, Vismara D, Carotenuto F, **Catanzaro G**, Maccarrone M. Endomorphin-1 prevents lipid accumulation via CD36 down-regulation and modulates cytokines release from human lipid-laden macrophages. *Peptides* 2011 Jan; 32(1): 80-5. IF: 2.429
35. Catani MV and Gasperi V, **Catanzaro G**, Baldassarri S, Bertoni A, Sinigaglia F, Avigliano L, Maccarrone M. Human platelets express authentic CB(1) and CB(2) receptors. *Curr Neurovasc Res* 2010 Nov; 7(4): 311-8. IF: 2.409
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38. Amadio D, Fezza F, **Catanzaro G**, Incani O, van Zadelhoff G, Finazzi Agrò A, Maccarrone M. Methylation and Acetylation of 15-Hydroxyanandamide modulate its interaction with the endocannabinoid system. Biochimie 2010 Apr; 92(4): 378-87. IF: 3.124
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42. Francavilla F, Battista N, Barbonetti A, Vassallo MR, Rapino C, Antonangelo C, Pasquariello N, **Catanzaro G**, Barboni B, Maccarrone M. Characterization of the endocannabinoid system in human spermatozoa and involvement of TRPV1 vanilloid receptor in their fertilizing ability. Endocrinology. 2009 Oct; 150(10):4692-4700. IF: 4.752
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44. Deponti D, Buono R, **Catanzaro G**, Palma CD, Longhi R, Meneveri R, Bresolin N, Bassi MT, Cossu G, Clementi E, Brunelli S. The Low Affinity Receptor for Neurotrophins p75NTR Plays a Key Role for Satellite Cell Function in Muscle Repair Acting via RhoA. Mol Biol Cell. 2009 Aug; 20(16):3620-3627. IF: 5.979