

PERSONAL INFORMATION

Luca Persano



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POSITION

Collaborator at Pediatric Research Institute

Principal Investigator of the Brain Tumors Unit in the Laboratory of Pediatric Oncohematology

WORK EXPERIENCE

Dates (from January 2014 – to present)

Researcher at Pediatric Research Institute, Pediatric oncohematology Laboratory

Fondazione Istituto di Ricerca Pediatrica, corso Stati Uniti, 4 35127 Padua, Italy
www.cittadellasperanza.org

Principal Investigator and Head of the Brain Tumors Unit in Pediatric Oncohematology Laboratory.

Main activities:

- Study of the role of tumor microenvironment, in particular hypoxia, in the regulation of brain tumor stem cells maintenance.
- Study of the possible factors involved in the resistant phenotype of particular subclasses of pediatric acute leukemias, with the final aim to improve cure rates for children with leukemia.
- Tutor of two PhD Students.
- From 2015 Process Owner for the Research Process of all the research activities carried out in the Laboratory of Pediatric Oncohematology under the directives of the:
 - UNI EN ISO 9001:2008 Sistemi di Gestione per la Qualità. Requisiti.
 - UNI EN ISO 9004:2009 Sistemi di gestione per la Qualità. Linee guida per il miglioramento delle prestazioni.
 - UNI EN ISO 9000:2005 Sistemi di gestione per la Qualità. Fondamenti e terminologia.
 - UNI EN ISO 9011:2012 Linee guida per gli audit dei sistemi di gestione per la qualità e/o di gestione ambientale.
- Responsible of the Hazardous Waste disposal (biological and chemical) for the Laboratory of Pediatric Oncohematology.

Business or sector Biological and Medical research (basic and translational)

Dates (from January 2012 – to December 2013)

Grantholder/Senior Investigator at University of Padova, Department of Woman and Child Health, Laboratory of Pediatric Oncohematology

Department of Woman and Child Health, University of Padova, via Giustiniani, 3 35128, Padua, Italy.

Project leader on Pro-differentiating treatment able to sensitize brain cancer stem cells to chemotherapeutic agents. University of Padova Young Investigators Grant 2010.

Main activities:

- Use of BMP proteins to induce differentiation of brain tumour cells and sensitize them to alkylating agents.
- Study of alternative pro-differentiating factors (based on Wnt/ β -catenin pathway activation) and their modulation depending on different microenvironmental conditions.
- Set-up of a brain cancer Zebrafish model.

Business or sector Biological and Medical research (basic and translational)

Dates (from January 2011 – to December 2011)

Teaching at the course of Molecular Medicine for FSE Ph.D. Students in Developmental Medicine Ph.D. program, Department of Woman and Child Health, University of Padova.

Department of Woman and Child Health, University of Padova, via Giustiniani, 3 35128, Padua, Italy.

Teaching activity in the field of neural and Mesenchymal stem cells, fluorescent microscopy, immunohistochemistry and primary cell culture.

Main activities:

- 30 hours including 3 exercitations.

Business or sector Teaching

Dates (from August 2009 – to December 2011)

Post-doctoral fellow/Junior investigator at University of Padova, Department of Woman and Child Health, Laboratory of Pediatric Oncohematology.

Department of Woman and Child Health, University of Padova, via Giustiniani, 3 35128, Padua, Italy.

Research activity on the role of microenvironmental hypoxia in determining brain tumour stem cell characteristics and response to therapy.

From May 2010, head of the Brain Tumor Unit of the laboratory.

Main activities:

- Study of the spatial distribution of hypoxia in brain tumours.
- Study of the role of hypoxia in regulating Notch activity in Medulloblastoma tumours.
- Set up of different strategy overcoming brain tumour cell resistance to therapy.

Business or sector Biological and Medical research (basic and translational)

Dates (from January 2006 – to December 2008)

Junior Research Fellow during PhD course of Oncology and Surgical Oncology at University of Padova, Department of Oncology and Surgical Sciences, Laboratory of Molecular Immunology and Gene therapy.

Department of Oncology and Surgical Sciences, University of Padova, via Gattamelata, 64 35128 Padua, Italy.

Research activity on the setup of a gene therapy strategy to selectively target prostate cancer cells in a spontaneous murine model of prostate cancer. Moreover, study of the angiogenesis process in ovarian, esophageal and colon cancer; setup of anti angiogenic strategies to selectively target solid tumours. Study of the role of Notch3 in T-ALL and colon cancers.

Main activities:

- Set up of an anti-angiogenic gene therapy strategy able to target prostate cancer cell in a transgenic mouse model.
- Set up of anti-angiogenic strategies to inhibit ovarian cancer.
- Study of the hypoxic microenvironment in ovarian cancer and B-cell lymphoma.
- Study of the role of Notch3 activation in dormant tumours (T-ALL and colon cancer).

Business or sector Biological and Medical research (basic and translational)

Dates (from March 2005 – to December 2005)

Junior Research Fellow at University of Padova, Department of Oncology and Surgical Sciences, Laboratory of Molecular Immunology and Gene therapy.

Department of Oncology and Surgical Sciences, University of Padova, via Gattamelata, 64 35128 Padua, Italy.

Research activity on the setup of a gene therapy strategy to selectively target prostate cancer cells in a spontaneous murine model of prostate cancer.

Moreover, study of the angiogenesis process in ovarian cancer; setup of anti angiogenic strategies to selectively target solid tumours.

Main activities:

- Set up of an anti-angiogenic gene therapy strategy able to target prostate cancer cell in a transgenic mouse model.
- Set up of anti-angiogenic strategies to inhibit ovarian cancer.
- Study of the hypoxic microenvironment in B-cell lymphoma.

Business or sector Biological and Medical research (basic and translational)

EDUCATION AND TRAINING

Dates (from January 2006 – to December 2008)

PhD in Oncology and Surgical Oncology.

National classification:

Level 6

Department of Oncology and Surgical Sciences, University of Padova, Padua, Italy.

Clinical and molecular oncology with particular attention to tumour angiogenesis and its inhibition as promising strategy to inhibit solid tumours growth.

Skills covered:

- Cell biology, including primary cell culture
- Molecular biology, including nucleic acid extraction, PCR and plasmid cloning. Transgenic lentiviral vectors cloning and production.
- In vivo skills in mice including intravenous and intra-peritoneal injections, mice autopsies and vital imaging.

Dates (from September 2009 – to March 2005)

Master Degree in Pharmaceutical Biotechnology. Final score: 110/110

National classification:

Level 5A

University of Padova, Padua, Italy.

Molecular and cell biology, biochemistry, chemistry and pharmacology.

Skills covered:

- Molecular biology.
- Cellular biology.
- Spectroscopy and pharmacology.
- Biotechnological drugs.
- Chemical synthesis.

Dates (from 1994 – to 1999)

Scientific Degree Final score: 91/100

National classification:

Level 3A

G. Galilei Scientific High School, San Donà di Piave (VE), Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	C1	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Very good communication skills obtained by participation at several national and international scientific meetings and teaching responsibilities for PhD students and speaker at national courses.

Organisational / managerial skills

Since from 2010 I am responsible and Principal Investigator of the Brain Tumour Research Unit of the Pediatric Oncohematology Laboratory, I really improved my organization and teamwork skills, I learnt how to write and supervise projects and how organize both everyday research activities and long term expected results. Moreover, as a Grantholder between 2012 and 2013 I could develop and refine the ability to manage and plan project costs based on available budget and funds.

I tutored two Phd students and I am tutor of 1 third-year PhD student and 1 second-year PhD student right now. Moreover I co-tutored five undergraduate students for their experimental thesis and final degree examination.

In particular:

- 2015. Co-tutor for bachelor thesis: Synthesis, characterization and biological activity evaluation of a BMP2 mimetic peptide in glioblastoma cells.
- 2015-2017. Tutor for PhD project: Role of developmental signalling pathways as key determinants of gliomagenesis and glioma phenotype.
- 2014-2016. Tutor for PhD project: Identifying and exploiting new specific targets for Glioblastoma cancer stem cells.
- 2011-2013. Tutor for PhD research project: Use of BMP2 as pro-differentiating factor for Glioma treatment: set up of new strategies to selectively target cancer stem cells.
- 2012. Co-tutor for bachelor thesis: Hypoxia cooperates with Wnt pathway to define glioblastoma cell phenotype.
- 2011. Co-tutor for bachelor thesis: Study of phenotypic and molecular characteristics of recurrent Glioblastoma-derived cells.
- 2011. Co-tutor for bachelor thesis: LY294002 induces apoptosis and differentiation of Medulloblastoma cancer stem cells.
- 2010. Co-tutor for bachelor thesis: BMP2 differentiate Glioblastoma cells and modulates HIF-1alpha; levels.
- 2009-2011. Tutor for PhD research project: Analysis of the epigenetic effects induced by brain microenvironment on Glioblastoma and Medulloblastoma derived cells growth, through in vitro and in vivo (Danio rerio) models.

Job-related skills Very good command of quality control processes as I am currently the Process Owner for the Quality Control of the Research Processes carried out in the Laboratory of Pediatric Oncohematology, under the directives of:

- UNI EN ISO 9001:2008 Sistemi di Gestione per la Qualità. Requisiti.
- UNI EN ISO 9004:2009 Sistemi di gestione per la Qualità. Linee guida per il miglioramento delle prestazioni.
- UNI EN ISO 9000:2005 Sistemi di gestione per la Qualità. Fondamenti e terminologia.
- UNI EN ISO 9011:2012 Linee guida per gli audit dei sistemi di gestione per la qualità e/o di gestione ambientale.

Good management of Hazardous Waste Disposal as I am currently the Responsible for the correct harvesting, management and disposal of Hazardous Sanitary Wastes produced in the Laboratory of Pediatric Oncohematology.

Laboratory skills:

- Molecular biology, including nucleic acid extraction, quantitative PCR (use of Applied Biosystems 7700 and 7900 Thermalcycler), plasmid cloning, Chromatin immunoprecipitation, Western Blot (Bio-Rad and Eppendorf-Alliance image acquisition systems).
- Cellular biology, including isolation and culture of primary cell lines derived from ovarian and brain tumours and leukemia. Experiments of transfection, transduction and gene silencing. Production and management of transgenic lentiviral vectors for over-expression and silencing of determined genes. Use and maintenance of hypoxic chambers for in vitro applications (Biospherix and Ruskin In vivo 300 hypoxic cabinets).
- Flow Cytometry. Use of Beckman Coulter FC500 and Navios cytometers.
- Histology, including processing and paraffin embedding (automatic and manual) of samples, cryosectioning (Leica Cryostat) and microtome use. Techniques of Immunohistochemistry, immunofluorescence and In Situ hybridization.
- Microscopy, including use of Laser Confocal Microscopy (Zeiss LSM510) or epifluorescence microscopy (Nikon ViCo microscope).
- In vivo skills including mice and Zebrafish handling for xeno-transplantation of human tumour cells in vivo and live imaging of animals (Xenogen IVIS).

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

- Excellent use of Windows and Microsoft Office.
- Excellent use of data managing software such as GraphPad 6 and SigmaPlot 9.
- Very good use of imaging tools such as Adobe Creative Suite 6, including Adobe Photoshop and Adobe Illustrator CS6 or ImageJ software.
- Good use of the data analysis software SPSS.

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Other skills Strong and innate attitude to interact with colleagues and people in general

Driving licence Type B

ADDITIONAL INFORMATION

Publications
Articles in Scientific Journals
Submitted

Maule F, Bresolin S, Rampazzo E, Boso D, Della Puppa A, Esposito G, Lombardi G, Accordi B, Tumino M, Basso G and **Persano L***. Annexin 2A sustains glioblastoma cell dissemination and proliferation. *Oncotarget*. 2016 *Under Revision*.
* *Corresponding author*

Persano L, Rampazzo E, Della Puppa A. Letter to the Editor: What are we able to see, what it really is. The main challenge of intra-operative glioblastoma detection. *Neurosurgery*. 2016 *Submitted*.

Della Puppa A, Lombardi G, Rossetto M, Rustemi O, Berti F, Cecchin D, Gardiman MP, Rolma G, **Persano L**, Zagonel V and Scienza R. Outcome of patients affected by newly diagnosed glioblastoma undergoing surgery assisted by 5-aminolevulinic acid guided resection followed by BCNU wafers implantation: a 3-year follow-up. *J Neurooncol*. 2016 *Submitted*.

Published in 2016

Porcù E, **Persano L**, Ronca R, Mitola S, Romagnoli R, Basso G, Viola G. The novel antitubulin agent TR-764 strongly reduces tumor vasculature and inhibits HIF-1 α activation. *Scientific Reports*. 2016 *Accepted for publication*.

Published in 2015

Frasson C, Rampazzo E, Accordi B, Beggio G, Pistollato F, Basso G and **Persano L**.* Inhibition of PI3K signalling selectively affects Medulloblastoma cancer stem cells. *Biomed Res Int*. 2015;2015:973912.
* *Corresponding author*

Persano L, Zagoura D, Louisse J and Pistollato F. Role of environmental chemicals, processed food derivatives and nutrients in the induction of carcinogenesis. *Stem Cell Dev*. 2015 Oct 15;24(20):2337-52.

Curtarello M, Zulato E, Nardo G, Valtorta S, Guzzo G, Rossi E, Esposito G, Msaki A, Pastò A, Rasola A, **Persano L**, Ciccarese F, Bertorelle R, Todde S, Plebani M, Schroer H, Walenta S, Mueller-Klieser W, Amadori A, Moresco RM, Indraccolo S. VEGF-targeted therapy stably modulates the glycolytic phenotype of tumor cells. *Cancer Res*. 2015 Jan 1;75(1):120-33.

Published in 2014

Schiavone M, Rampazzo E, Casari A, Battilana G, **Persano L**, Moro E, Liu S, Leach SD, Tiso N, Argenton F. Zebrafish reporter lines reveal in vivo signaling pathway activities involved in pancreatic cancer. *Dis Model Mech*. 2014 Jul;7(7):883-94.

Lignitto L, Mattiolo A, Negri E, **Persano L**, Giancesello L, Chieco-Bianchi L, Calabrò ML. Crosstalk between the mesothelium and lymphomatous cells: insight into the mechanisms involved in the progression of body cavity lymphomas. *Cancer Med*. 2014 Feb;3(1):1-13.

Rampazzo E, Della Puppa A, Frasson C, Battilana G, Bianco S, Scienza R, Basso G, **Persano L**.* Phenotypic and functional characterization of Glioblastoma cancer stem cells identified through 5-aminolevulinic acid-assisted surgery. *J Neurooncol*. 2014 Feb;116(3):505-13.
* *Corresponding author*

Della Puppa A, Giofrè G, Gardiman MP, Frasson C, Cecchin D, Scienza R, **Persano L**. Intra-operative 5-aminolevulinic acid (ALA)-induced fluorescence of medulloblastoma: phenotypic variability and CD133(+) expression according to different fluorescence patterns. *Neurol Sci*. 2014 Jan;35(1):99-102.

Published in 2013

Rossetto M, **Persano L**, Scienza R, Della Puppa A. Hydrocephalus after meningioma surgery. *Neurosurg Focus*. 2013 Nov;35(5):E8.

Porcù E, Viola G, Bortolozzi R, **Persano L**, Mitola S, Ronca R, Presta M, Romagnoli R, Baraldi PG, Basso G. TR-644 a novel potent tubulin binding agent induces impairment of endothelial cells function and inhibits angiogenesis. *Angiogenesis*. 2013 Jul;16(3):647-62.

Persano L, Rampazzo E, Basso G, Viola G. Glioblastoma cancer stem cells: role of the microenvironment and therapeutic targeting. *Biochem Pharmacol*. 2013 Mar 1;85(5):612-22.

Rampazzo E, **Persano L***, Pistollato F, Moro E, Frasson C, Porazzi P, Della Puppa A, Bresolin S, Battilana G, Indraccolo S, Te Kronnie G, Argenton F, Tiso N, Basso G. Wnt activation promotes neuronal differentiation of glioblastoma. *Cell Death Dis*. 2013 Feb 21;4:e500.
* *Co-first author*

Published in 2012

Persano L*, Pistollato F, Rampazzo E, Della Puppa A, Abbadi S, Frasson C, Volpin F, Indraccolo S, Scienza R, Basso G. BMP2 sensitizes glioblastoma stem-like cells to Temozolomide by affecting HIF-1 α stability and MGMT expression. *Cell Death Dis*. 2012 Oct 18;3:e412.
* *Corresponding author*

Della Puppa A, **Persano L**, Masi G, Rampazzo E, Sinigaglia A, Pistollato F, Denaro L, Barzon L, Palù G, Basso G, Scienza R, d'Avella D. MGMT expression and promoter methylation status may depend on the site of surgical sample collection within glioblastoma: a possible pitfall in stratification of patients? J Neurooncol. 2012 Jan;106(1):33-41.

Published in 2011

Serafin V, **Persano L**, Moserle L, Esposito G, Ghisi M, Curtarello M, Bonanno L, Masiero M, Ribatti D, Stürzl M, Naschberger E, Croner RS, Jubb AM, Harris AL, Koeppen H, Amadori A, Indraccolo S. Notch3 signalling promotes tumour growth in colorectal cancer. J Pathol. 2011 Aug;224(4):448-60.
**Co-first author*

Nardo G, Favaro E, Curtarello M, Moserle L, Zulato E, **Persano L**, Rossi E, Esposito G, Crescenzi M, Casanovas O, Sattler U, Mueller-Klieser W, Biesalski B, Thews O, Canese R, Iorio E, Zanovello P, Amadori A, Indraccolo S. Glycolytic phenotype and AMP kinase modify the pathologic response of tumor xenografts to VEGF neutralization. Cancer Res. 2011 Jun 15;71(12):4214-25.

Pistollato F, **Persano L**, Puppa AD, Rampazzo E, Basso G. Isolation and expansion of regionally defined human glioblastoma cells in vitro. Curr Protoc Stem Cell Biol. 2011 May; Chapter 3:Unit 3.4.

Masiero M, Minuzzo S, Pusceddu I, Moserle L, **Persano L**, Agnusdei V, Tosello V, Basso G, Amadori A, Indraccolo S. Notch3-mediated regulation of MKP-1 levels promotes survival of T acute lymphoblastic leukemia cells. Leukemia. 2011 Apr;25(4):588-98.

Crescenzi M, **Persano L**, Esposito G, Zulato E, Borsi L, Balza E, Ruol A, Ancona E, Indraccolo S, Amadori A. Vandetanib improves anti-tumor effects of L19mTNFalpha in xenograft models of esophageal cancer. Clin Cancer Res. 2011 Feb 1;17(3):447-58.

Persano L*, Rampazzo E, Della Puppa A, Pistollato F, Basso G. The three-layer concentric model of glioblastoma: cancer stem cells, microenvironmental regulation, and therapeutic implications. ScientificWorldJournal. 2011;11:1829-41.
** Corresponding author*

Published in 2010

Pistollato F, Abbadi S, Rampazzo E, Viola G, Della Puppa A, Cavallini L, Frasson C, **Persano L**, Panchision DM, Basso G. Hypoxia and succinate antagonize 2-deoxyglucose effects on glioblastoma. Biochem Pharmacol. 2010 Nov 15;80(10):1517-27.

Pistollato F, Rampazzo E, **Persano L***, Abbadi S, Frasson C, Denaro L, d'Avella D, Panchision DM, Della Puppa A, Scienza R, Basso G. Interaction of hypoxia-inducible factor-1 α and Notch signaling regulates medulloblastoma precursor proliferation and fate. Stem Cells. 2010 Nov;28(11):1918-29.
** Corresponding author*

Pistollato F, **Persano L**, Rampazzo E, Basso G. L-Proline as a modulator of ectodermal differentiation in ES cells. Focus on "L-Proline induces differentiation of ES cells: a novel role for an amino acid in the regulation of pluripotent cells in culture. Am J Physiol Cell Physiol. 2010 May;298(5):C979-81.

Pistollato F, Abbadi S, Rampazzo E, **Persano L**, Della Puppa A, Frasson C, Sarto E, Scienza R, D'Avella D, Basso G. Intratumoral hypoxic gradient driver stem cells distribution and MGMT expression in glioblastoma. Stem Cells. 2010 May;28(5):851-62.

Published in 2009

Persano L, Moserle L, Esposito G, Bronte V, Barbieri V, Iafrate M, Gardiman MP, Larghero P, Pfeffer U, Naschberger E, Stürzl M, Indraccolo S, Amadori A. Interferon-alpha counteracts the angiogenic switch and reduces tumor cell proliferation in a spontaneous model of prostatic cancer. Carcinogenesis. 2009 May;30(5):851-60.

Indraccolo S, Minuzzo S, Masiero M, Pusceddu I, **Persano L**, Moserle L, Reboldi A, Favaro E, Mecarozzi M, Di Mario G, Screpanti I, Ponzoni M, Doglioni C, Amadori A. Cross-talk between tumor and endothelial cells involving the Notch3-Dll4 interaction marks escape from tumor dormancy. Cancer Res. 2009 Feb 15;69(4):1314-23.

Published in 2008

Favaro E, Nardo G, **Persano L**, Masiero M, Moserle L, Zamarchi R, Rossi E, Esposito G, Plebani M, Sattler U, Mann T, Mueller-Klieser W, Ciminale V, Amadori A, Indraccolo S. Hypoxia inducible factor-1 α inactivation unveils a link between tumor cell metabolism and hypoxia-induced cell death. Am J Pathol. 2008 Oct;173(4):1186-201.

Published in 2007 Piovan E, Tosello V, Indraccolo S, Masiero M, **Persano L**, Esposito G, Zamarchi R, Ponzoni M, Chieco-Bianchi L, Dalla-Favera R, Amadori A. Differential regulation of hypoxia-induced CXCR4 triggering during B-cell development and lymphomagenesis. *Cancer Res.* 2007 Sep 15;67(18):8605-14.

Persano L, Crescenzi M, Indraccolo S. Anti-angiogenic gene therapy of cancer: current status and future prospects. *Mol Aspects Med.* 2007 Feb;28(1):87-114. Epub 2007 Jan 11. Review.

Published in 2006 Indraccolo S, Tisato V, Agata S, Moserle L, Ferrari S, Callegaro M, **Persano L**, Palma MD, Scaini MC, Esposito G, Fassina A, Nicoletto O, Plebani M, Chieco-Bianchi L, Amadori A, D'Andrea E, Montagna M. Establishment and characterization of xenografts and cancer cell cultures derived from BRCA1 -/- epithelial ovarian cancers. *Eur J Cancer.* 2006 Jul;42(10):1475-83.

Indraccolo S, Moserle L, Tisato V, Gola E, Minuzzo S, Roni V, **Persano L**, Chieco-Bianchi L, Amadori A. Gene therapy of ovarian cancer with IFN-alpha-producing fibroblasts: comparison of constitutive and inducible vectors. *Gene Ther.* 2006 Jun;13(12):953-65.

Published in 2005 Indraccolo S, Tisato V, Tosello V, Habeler W, Esposito G, Moserle L, Stivano L, **Persano L**, Chieco-Bianchi L, Amadori A. Interferon-alpha gene therapy by lentiviral vectors contrasts ovarian cancer growth through angiogenesis inhibition. *Hum Gene Ther.* 2005 Aug;16(8):957-70.

[Publications Abstract in Scientific Journals Published in 2014](#)

Insights into the pathogenesis of HHV8-driven body cavity-based lymphoma. Calabro ML, Lignitto L, Mattiolo A Negri E, **Persano L**, Gianesello L, Chieco-Bianchi L. *JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES* vol. 65 Suppl. 2 p.65

Published in 2011

Tiso N, Rampazzo E, **Persano L**, Pistollato F, Moro E, Porazzi P, Puppa AD, Bresolin S, Kronnie GT, Del Moro G, Scienza R, d'Avella D, Argenton F, Basso G (2011). Wnt signaling promotes phenotypic reprogramming of glioblastoma-derived cells in the zebrafish brain microenvironment. *FEBS JOURNAL*, vol. 278, p. 235.

[Publications Chapter in Volume Published in 2015](#)

Persano L, Della Puppa A, Porcù E, Maule F, and Viola G. Glioblastoma Cancer Stem Cells. In: Babashah S. (Ed.) *Cancer Stem Cells: Emerging Concepts and Future Perspectives in Translational Oncology*. 2015 11;273-97. Springer International Publishing.

Published in 2012

Pistollato F, Della Puppa A, **Persano L**. Stem cell distribution and MGMT expression in Glioblastoma: role of intratumoral hypoxic gradient. In: Hayat M.A. (Ed.) *Stem Cells and Cancer Stem Cells 2012* 3;139-147. Springer International Publishing.

[Citations Web of Science](#)

h-index: 16 citations: 622

[Scopus](#)

h-index: 16 citations: 649

[Google Scholar](#)

h-index: 17 citations: 948

[Oral communications 2012](#)

Invited lecture at the course entitled BrainHouse 2012: Sfide in Neurochirurgia Oncologica, University of Padova, Department of Neuroscience, Padua, Italy.

Invited lecture at the seminar: Effetti dell'Ipossia nella Life Science, Milan, Italy.

2011

Oral presentation at XVI Congress of the Italian Association of Neuro-oncology AINO, Milan, Italy.

Invited lecture at the course entitled "Surgical Neuro-oncology: From Bench to Bedside, University of Padua, Department of Neuroscience, Padova, Italy.

2009

Oral presentation at 1st AIEOP in lab, Milan, Italy.

2008

Selected Poster presentation at 49th Annual Meeting of the Italian Cancer Society, Pordenone, Italy.

- Conferences attended
- 2016** XXII Winter-InterLab Meeting in Pediatric Hematology-Oncology, Falcade, Italy.
- 2015** II International Symposium on Clinical and Basic Investigation in Glioblastoma, Toledo, Spain.
- XXI Winter-InterLab Meeting in Pediatric Hematology-Oncology, Falcade, Italy.
- 2012** Cell Symposia: Hallmark of Cancer, San Francisco, CA, USA.
- 2011** XVI Congress of the Italian Association of Neuro-oncology AINO, Milan, Italy.
- XVIII Winter-InterLab Meeting in Pediatric Hematology-Oncology, Falcade, Italy.
- 7th European Zebrafish Meeting. Edinburgh, UK.
- 9th Annual Meeting of the International Society of Stem Cell Research ISSCR. Toronto, Canada.
- 2010** 8th Annual Meeting of the International Society of Stem Cell Research ISSCR. San Francisco, CA, USA.
- International Workshop-Translational Research on Malignant Glioma: from Discovery to Clinic. Naples, Italy.
- 2009** 1st Workshop AIEOP in Lab. Milan, Italy.
- XIV Congress of the Italian Association of Neuro-oncology AINO. Padua, Italy.
- 2008** 3rd European Conference on Tumor Angiogenesis and Antiangiogenic Therapy. Abano Terme, Italy.
- 20th Pezcoller Symposium. Molecular Biology of Cancer: 20 years of progress punctuated by the Pezcoller symposia. Trento, Italy.
- 2007** 49th Annual Meeting of the Italian Cancer Society, Pordenone, Italy.
- 2006** 48th Annual Meeting of the Italian Cancer Society, Bari, Italy.
- 18th Pezcoller Symposium. Tumor microenvironment: heterotypic interactions. Trento, Italy.
- 2005** 47th Annual Meeting of the Italian Cancer Society. Abano Terme, Italy.

- Projects**
Written Grant Proposals
2016 European Commission, Future & Emerging Technology (FET) Open call (Horizon 2020 program)
Title: "Semiconductor-based UltrawidebandMicromanipulation of CAnCer STEm Cells. SUMCASTEC". UNDER EVALUATION
- My First AIRC Grant 2016
Title: "Dissecting the role of specific ECM molecules as microenvironmental regulators of glioblastoma progression and relapse" UNDER EVALUATION
- 2015** Worldwide Cancer Research Grant
Title: "Modulation of Glioblastoma progression by extracellular matrix molecules involved in macrophage recruitment and polarization."
- AIRC – Cariplo Foundation TRIDEO 2015.
Title: "Developmental pathways involved in EGFRvIII driven gliomagenesis as potential targets for zebrafish based drug screening."
- CARIPARO Foundation Starting Grants 2015.
Title: "Peptide-mediated technologies to tackle Blood Brain Barrier crossing as challenge against Central Nervous System diseases: comparison among different sequences and strategies for increasing biological stability."
- 2014** Ministry of Health - Progetti di Ricerca Finalizzata-Giovani Ricercatori, Bando 2012-2013.
Title: "Selective targeting of Glioblastoma cells by drug-functionalized antibodies and Avidin-Nucleic-Acid-Nano-Assemblies (ANANAS) and in vivo monitoring by Confocal Laser Endomicroscopy (CLE)."
- 2013** FIRB - Programme "Futuro in Ricerca 2013".
Title: "Neuroblastoma, a multiple molecular approach to identify novel hypoxia-related targets for treatment improvement."
- Umberto Veronesi Fundation - Young Investigator Research Programme.
Title: "Metabolic properties of Neuroblastoma cancer stem cells: implications for tumor relapse and identification of new targets for therapy."
- Ministry of Health - Progetti di Ricerca Finalizzata-Giovani Ricercatori, Bando 2011-2012.
Title: "Setup and validation of fluorescent nanoprobe for in vivo detection of Glioblastoma cancer stem cells by Confocal Laser Endomicroscopy."
- 2012** ERC Starting Grant.
Title: "Sensitizing glioblastoma cancer stem cells to chemotherapy by pro-differentiating agents: a novel therapeutic approach."
- FIRB - Programme "Futuro in Ricerca 2012".
Title: "Neuroblastoma, a multiple molecular approach to identify novel hypoxia-related targets for treatment improvement."
- Ministry of Health - Progetti di Ricerca Finalizzata-Giovani Ricercatori, Bando 2010-2011.
Title: "Sensitizing Glioblastoma cells to chemotherapy by pro-differentiating agents."
- 2010** University of Padova - Bando Giovani Studiosi per il sostegno di ricerche di carattere innovativo e di eccellenza proposte da giovani studiosi non strutturati.
Title: "Sensitizing Glioblastoma derived cancer stem cells to Temozolomide treatment by BMP2 administration." GRANTED

References
Contact persons

Dr. Stefano Indraccolo

Head of the Molecular Immunology and Gene Therapy Laboratory at Istituto Oncologico Veneto – IOV IRCCS, via Gattamelata, 64 35128 Padua, Italy.

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email: stefano.indraccolo@unipd.it

Dr. Francesca Pistollato

Institute for Health and Consumer Protection (IHCP), Joint Research Centre (JRC) - European Commission, Ispra, Varese, Italy

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Prof. Giuseppe Basso

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Luca Persano

A handwritten signature in black ink, appearing to read "Luca Persano", written in a cursive style.