



## Massimiliano Del Bene

**Nazionalità:** Italiana

**Data di nascita:** 11/03/1989

**Sesso:** Maschile

### ISTRUZIONE E FORMAZIONE

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#### **Medico Chirurgo**

**Università degli studi di Milano** [ 2008 – 2014 ]

Indirizzo: (Italia)

Voto finale : Summa Cum Laude

Tesi: **Ruolo di CLIC1 negli Esosomi del Glioblastoma**

#### **Abilitazione alla professione di medico chirurgo**

**Ministero dell'Istruzione, Università e Ricerca** [ 2014 – 2015 ]

#### **Iscritto all'Ordine Provinciale dei Medici Chirurghi e degli Odontoiatri di Milano**

[ 2015 – Attuale ]

Indirizzo: Milano (Italia)

#### **Specialista in Neurochirurgia**

**Università degli studi di Milano, Scuola di specializzazione in Neurochirurgia** [ 2015 – 2020 ]

Indirizzo: Milano (Italia)

Voto finale : Summa Cum Laude

Tesi: **Plasma Extra-Cellular Vesicles in Glioblastoma Patients: Clinical Significance and Perspectives for Liquid Biopsy.**

#### **The European Association of Neurosurgical Societies Training course**

**European Association of Neurosurgical Societies** [ 2018 – 2021 ]

#### **Eurospine basic diploma**

**Eurospine** [ 2021 – 2021 ]

#### **European Board Examination in Neurological Surgery Part 1**

**European Association of Neurosurgical Societies** [ 2021 – 2021 ]

### ESPERIENZA LAVORATIVA

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#### **Studente frequentatore**

**Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta", Dipartimento di Neurochirurgia** [ 2012 – 2015 ]

Città: Milano

Paese: Italia

## **Ricercatore**

**Istituto Europeo di Oncologia, Dipartimento di Oncologia Sperimentale, Prof. Giuliana Pelicci group** [ 2013 – Attuale ]

Città: Milano

Paese: Italia

## **Medico Specializzando in Neurochirurgia**

**Università degli Studi di Milano, Scuola di specializzazione in Neurochirurgia** [ 2015 – 2020 ]

Città: Milano

Paese: Italia

**11/2015 – 12/2017 IRCCS Ospedale Maggiore Policlinico di Milano** - Milano - Dr Paolo Rampini

**01/2018 – 10/2020 Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta"** – Milano – Prof Francesco DiMeco

**12/2018 Observership in skull base surgery at Hôpital Lariboisière.** - Paris, France - Prof. Sébastien Froelich.

## **Medico specialista in Neurochirurgia (Collaborazione Professionale in regime di P.IVA)**

**Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta", Department of Neurosurgery** [ 01/2021 – 01/2022 ]

Città: Milano

Paese: Italia

## **PRINCIPALI AREE DI RICERCA**

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### **Intra-operative imaging in neurosurgery**

The aim is to explore different applications of ultrasound modalities such as fusion imaging, contrast enhanced ultrasound, doppler, and elastosonography (Ultrasound program - Prof. Francesco DiMeco)

### **Characterisation of the informative power of plasma extracellular vesicles (EVs) in glioblastoma patients in order to develop a reliable liquid biopsy.**

The project focuses on the potential of extracellular vesicle-based liquid biopsy, with the goal to validate the extracellular vesicles as diagnostic and prognostic biomarker, and as a follow-up tool, able to cope with the heterogeneity and mutability typical of glioblastomas. By proposing a multi-level characterization of all the informative power of these blood-derived vesicles, the project aims at characterizing plasma extracellular vesicles concentration and molecular cargo (DNA, RNA, protein) during the whole disease course. To date, prof. Pelicci Group has identified CLIC1 contained in EVs as a novel regulator of GBM growth. Recently, they demonstrated that plasma-EVs concentration represents per se a solid biomarker of GBM presence allowing to follow response to treatment and progression. Moreover, they identified a specific proteomic signature of glioblastoma plasma-extracellular-vesicles. (European Institute of Oncology - Prof. Giuliana Pelicci).

In 2020 this research line has been selected for founding by two grants:

- **"All-Ages Malignant Glioma: Holistic Management In The Personalised Minimally-Invasive Medicine Era - From Lab To Rehab"** (GLI-HOPE), Coordinated by Prof. Francesco DiMeco has been selected for founding in the context of the "bando della ricerca finalizzata 2019"
- **"Plasma extracellular vesicles (EVs): the key for precision medicine in Glioblastoma"** (EV-glio), coordinated by Prof. Francesco DiMeco has been selected for founding by the ERAPERMED Joint Transnational Call 2020

## **ONORIFICENZE E RICONOSCIMENTI**

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### **First prize for the trainee lecture at the EANS Training Course**

European Association of Neurosurgical Societies [ 10/2018 ]

"Clinical significance of plasma Extracellular Vesicles in Glioblastoma patients"

## Honorable Mention

Aesculap EANS Research Prize [ 03/2019 ]

"Clinical significance of extracellular vesicles in plasma from glioblastoma patients"

## Diploma Di Merito

I° Premio Carla Russo Ai Migliori Ricercatori Sui Tumori Cerebrali [ 12/2019 ]

## Guest Editor

Frontiers in Oncology Journal [ 2020 ]

Special Issue: Intraoperative Ultrasound in Brain Tumor Surgery: State-Of-The-Art and Future Perspectives

## PRODUZIONE SCIENTIFICA

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### Journal Publications 1/3

- Prada F, Santuari D, Legnani F, **Del Bene M**, Mattei L, Lodigiani L, et al. Cerebral Venous Return and high altitude cerebral edema (HACE): hypothesis and study protocol. *Veins and Lymphatics*. 2013;2(5):3.
- Prada F, **Del Bene M**, Mattei L, Casali C, Filippini A, Legnani F, et al. Fusion imaging for intra-operative ultrasound-based navigation in neurosurgery. *Journal of ultrasound*. 2014;17(3):243-51.
- Prada F, Mattei L, **Del Bene M**, Aiani L, Saini M, Casali C, et al. Intraoperative cerebral glioma characterization with contrast enhanced ultrasound. *BioMed research international*. 2014;2014.
- Prada F, Vetrano IG, Filippini A, **Del Bene M**, Perin A, Casali C, et al. Intraoperative ultrasound in spinal tumor surgery. *Journal of ultrasound*. 2014;17(3):195-202.
- Prada F, **Del Bene M**, Casali C, Saladino A, Legnani FG, Perin A, et al. Intraoperative navigated angiosonography for skull base tumor surgery. *World neurosurgery*. 2015;84(6):1699-707.
- Prada F, **Del Bene M**, Mattei L, Lodigiani L, DeBeni S, Kolev V, et al. Preoperative magnetic resonance and intraoperative ultrasound fusion imaging for real-time neuronavigation in brain tumor surgery. *Ultraschall in der Medizin-European Journal of Ultrasound*. 2015;36(02):174-86.
- Prada F, **Del Bene M**, Moiraghi A, Casali C, Legnani FG, Saladino A, et al. From grey scale B-mode to elastosonography: multimodal ultrasound imaging in meningioma surgery—pictorial essay and literature review. *BioMed research international*. 2015 May 25.
- Prada F, **Del Bene M**, Saini M, Feroli P, DiMeco F. Intraoperative cerebral angiosonography with ultrasound contrast agents: how I do it. *Acta neurochirurgica*. 2015;157(6):1025-9.
- Setti M, Osti D, Richichi C, Ortensi B, **Del Bene M**, Fornasari L, et al. Extracellular vesicle-mediated transfer of CLIC1 protein is a novel mechanism for the regulation of glioblastoma growth. *Oncotarget*. 2015;6(31):31413.
- Vetrano IG, Prada F, Nataloni IF, **Del Bene M**, DiMeco F, Valentini LG. Discrete or diffuse intramedullary tumor? Contrast-enhanced intraoperative ultrasound in a case of intramedullary cervicothoracic hemangioblastomas mimicking a diffuse infiltrative glioma: technical note and case report. *Neurosurgical focus*. 2015;39(2):E17.
- **Del Bene M**, Prada F, D'Amico D, DiMeco F. Chronic dorsal subdural haematoma: single aetiology for CNS superficial siderosis and myelopathy. *Acta neurochirurgica*. 2016;158(6):1129-31.
- Filippini A, Prada F, **Del Bene M**, DiMeco F. Intraoperative cerebral ultrasound for third ventricle colloid cyst removal: case report. *Journal of ultrasound*. 2016;19(3):211-5.
- Prada F, **Del Bene M**, DiMeco F. Image guidance in skull base tumor resection: A synergistic approach using intraoperative navigated angiosonography for real-time vessel visualization. *Surgical Neurology International*. 2016;7:82.

# Equal contribution

## Journal Publications 2/3

- #Prada F, #Del Bene M, Fornaro R, Vetrano IG, Martegani A, Aiani L, et al. Identification of residual tumor with intraoperative contrast-enhanced ultrasound during glioblastoma resection. *Neurosurgical focus*. 2016;40(3):E7.
- Prada F, Del Bene M, DiMeco F. Identification of residual glioma using ultrasound miniprobe Response. *Neurosurgical focus*. 2016;41(4). Prada F, Pipolo C, Del Bene M, Maccari A, Saibene AM. Narrow band imaging in giant pituitary adenoma surgery. *Acta neurochirurgica*. 2016;158(8):1621-3. Richichi C, Osti D, Del Bene M, Fornasari L, Patanè M, Pollo B, et al. Tumor-initiating cell frequency is relevant for glioblastoma aggressiveness. *Oncotarget*. 2016;7(44):71491.
- Prada F, Del Bene M, Faragò G, DiMeco F. Spinal Dural Arteriovenous Fistula: Is There a Role for Intraoperative Contrast-Enhanced Ultrasound? *World neurosurgery*. 2017;100:712. e15-. e18.
- Prada F, Vitale V, Del Bene M, Boffano C, Sconfienza LM, Pinzi V, et al. Contrast-enhanced MR Imaging versus Contrast-enhanced US: A Comparison in Glioblastoma Surgery by Using Intraoperative Fusion Imaging. *Radiology*. 2017;285(1):242-9.
- Richichi C, Fornasari L, Melloni GE, Brescia P, Patanè M, Del Bene M, et al. Mutations targeting the coagulation pathway are enriched in brain metastases. *Scientific Reports*. 2017;7(1):6573.
- Di Cristofori A, Del Bene M, Locatelli M, Boggio F, Ercoli G, Ferrero S, et al. Meningioma and bone hyperostosis: expression of bone stimulating factors and review of the literature. *World Neurosurgery*. 2018.
- Prada F, Del Bene M, Mauri G, Lamperti M, Vailati D, Richetta C, et al. Dynamic assessment of venous anatomy and function in neurosurgery with real-time intraoperative multimodal ultrasound. *Neurosurgical focus*. 2018;45(1):E6.
- Prada F, Kalani M Y S, Yagmurlu K, Norat P, Del Bene M, DiMeco F, Kassell N F. Applications of Focused Ultrasound in Cerebrovascular Diseases and Brain Tumours. *Neurotherapeutics*. 2018 Nov 7.
- #Prada F, #Del Bene M, Rampini A, Mattei L, Casali C, Vetrano IG, Gennari AG, Sdao S, Saini M, Sconfienza LM, DiMeco F. Intraoperative Strain Elastosonography in Brain Tumor Surgery. *Operative Neurosurgery (Hagerstown)*. 2018 Nov 28.
- Del Bene M, Perin A, Casali C, Legnani F, Saladino A, Mattei L, Vetrano IG, Saini M, DiMeco F, Prada F. Advanced Ultrasound Imaging in Glioma Surgery: Beyond Gray-Scale B-mode. *Frontiers in Oncology*, 2018 Dec 03.
- #Osti D., #Del Bene M., #Rappa G., Beznusenko G., Richichi C., Matafora V., Fornasari L., Bongetta D., Gaetani P., DiMeco F., Loricco A., Pelicci G. Clinical Significance of Extracellular Vesicles in Plasma from Glioblastoma Patients. *Clinical Cancer Research*. 2019 Jan.

# Equal contribution

## Journal Publications 3/3

- de Laurentis C, Del Bene M, Fociani P, Tonello C, Pollo B, DiMeco F. 5-ALA Fluorescence in Case of Brain Abscess by Aggregatibacter Mimicking Glioblastoma. *World Neurosurg*. 2019 May.
- Prada F, Gennari AG, Del Bene M, Bono BC, Quaia E, D'Incerti L, Villani F, Didato G, Tringali G, DiMeco F. Intraoperative ultrasonography (ioUS) characteristics of focal cortical dysplasia (FCD) type II b. *Seizure*. 2019 Jul.
- Prada F, Vetrano IG, Del Bene M, Mauri G, Sconfienza LM, DiMeco F. Letter to the Editor Regarding "The Diagnostic Properties of Intraoperative Ultrasound in Glioma Surgery and Factors Associated with Gross Total Tumor Resection". *World Neurosurg*. 2019 May
- Gribaudi GL, Pirola E, Borsa S, Del Bene M, Sgardello S, Caroli M. Multiple vertebral metastases from brain glioblastoma: An insidious complication. *Interdisciplinary Neurosurgery*. 2020 March 19.
- Casali C, Del Bene M, Messina G, Legnani F, DiMeco F. Robot assisted laser-interstitial thermal therapy with iSYS1 and Visualase: how I do it. *Acta Neurochir (Wien)*. 2021 Jun 19.
- #Del Bene M, #Osti D, Faletti S, Beznusenko G V, DiMeco F, Pelicci G. Extracellular vesicles: the key for precision medicine in glioblastoma. *Neuro-oncology*. 2021 Sep 28.
- Del Bene M, DiMeco F, Unsgård G. Intraoperative Ultrasound in Brain Tumor Surgery: State-Of-The-Art and Future Perspectives. *Frontiers in Oncology*, 4523
- #Del Bene M, #Raspagliesi L, Carone G, Gaviani P, Silvani A, Solbiati L, Prada F, DiMeco F. Cranial sonolucent prosthesis: a window of opportunity for neuro-oncology (and neuro-surgery). *Journal of Neuro-Oncology*, 1-12

# Equal contribution

## Book Chapters

- Prada F, **Del Bene M**, DiMeco F. Contrast-Enhanced Ultrasound (CEUS) in Neurosurgery. Intraoperative Ultrasound (IOUS) in Neurosurgery: Springer International Publishing; 2016. p. 159-69.
- Prada F, **Del Bene M**, Moiraghi A, DiMeco F. Echographic Brain Semeiology and Topographic Anatomy According to Surgical Approaches. Intraoperative Ultrasound (IOUS) in Neurosurgery: Springer; 2016. p. 29-39.
- Munzone E, Casali C, **Del Bene M**, DiMeco F. Treatment of Central Nervous System Involvement. Breast Cancer: Springer; 2017. p. 763-7.
- Casali C, **Del Bene M**, DiMeco F. Falcine meningiomas. Handbook of Clinical Neurology, Vol. 170, Meningiomas, Part II. Elsevier B.V. 2020
- Bloch O, DiMeco F, **Del Bene M**, Hakim F, Gomez D, Lesniak M S. Language area metastatic brain cancer. Intrinsic and Skull Base Tumors 1st Edition. Elsevier. ISBN 9780323696425.
- Alverne Freitas de Albuquerque L, DiMeco F, **Del Bene M**, Meyer F B, Wharen R E. Multiple accessible metastatic brain tumors. Intrinsic and Skull Base Tumors 1st Edition. Elsevier. ISBN 9780323696425.
- DiMeco F, **Del Bene M**, Komotar R J, Prevedello D M, Nakatomi H. Olfactory groove meningioma. Intrinsic and Skull Base Tumors 1st Edition. Elsevier. ISBN 9780323696425.

## Tesi

### Tesi di laurea in Medicina e Chirurgia:

Ruolo di CLIC1 negli Esosomi del Glioblastoma

*Relatore: Prof. Lorenzo Bello. Correlatore: Prof. Giuliana Pelicci*

### Tesi di specializzazione di Neurochirurgia:

Plasma Extra-Cellular Vesicles in Glioblastoma Patients: Clinical Significance and Perspectives for Liquid Biopsy

*Relatore: Prof. Francesco DiMeco. Correlatore: Prof. Giuliana Pelicci.*

*I progetti di tesi sono stati sviluppati nell'ambito della consolidata collaborazione tra il Prof. Francesco DiMeco (Fondazione IRCCS Istituto Neurologico Carlo Besta) e la Prof. Giuliana Pelicci (Istituto Europeo di Oncologia (IEO)). Il lavoro sperimentale è stato condotto presso il Dipartimento di Oncologia Sperimentale dell'Istituto Europeo di Oncologia (IEO).*

## PRESENTAZIONI A CORSI E CONGRESSI

### Presentazioni orali

- **Fusion imaging and Virtual Navigation in neurosurgery.** Corso di Ecografia Intra-operatoria in Neurochirurgia. Milano, Italy. April 2015
- **Preoperative Magnetic Resonance and Intraoperative Ultrasound Fusion Imaging for Real-Time Neuronavigation in Brain Tumor Surgery.** 15<sup>th</sup> Interim Meeting of World Federation Of Neurosurgical Societies. Roma, Italy. September 2015.
- **Fusion imaging and Virtual Navigation in neurosurgery.** Corso di Ecografia Intra-operatoria in Neurochirurgia. Milano, Italy. November 2015
- **Contrast-enhanced MRI versus contrast-enhanced ultrasound: a comparison in glioblastoma surgery using intra-operative fusion imaging.** EANS 2016 Congress. Athens, Greece. September 2016.
- **Chronic dorsal subdural haematoma: single aetiology for CNS superficial siderosis and myelopathy.** 65<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery). Roma, Italy. October 2016.
- **Identification of residual tumor with intraoperative contrast-enhanced ultrasound during glioblastoma resection.** 65<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery). Roma, Italy. October 2016.
- **Intraoperative multimodal ultrasound for real-time dynamic assessment of venous anatomy and function in neurosurgery.** 67<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery). Ancona, Italy. September 2018.
- **Clinical significance of plasma EVs in Glioblastoma patients.** EANS European Training Course – Brain Tumor Session. Dubrovnik, Croatia. October 2018.
- **Clinical Significance of Extracellular Vesicles in Plasma from Glioblastoma Patients.** 13th Meeting of the European Association of Neuro-Oncology. Stockholm, Sweden. October 2018.
- **Ultrasound in Neurosurgery.** Ecografia cerebrale intraoperatoria in neurochirurgia. Ospedale Pediatrico Bambino Gesù. Rome, Italy. November 2018
- **Clinical Significance Of Extracellular Vesicles In Plasma From Glioblastoma Patients.** 9th Annual EANS Young Neurosurgeons' Meeting & Research Course. Berlin, Germany. 28 February - 2 March 2019
- **Clinical Significance of Extracellular Vesicles in Plasma from Glioblastoma Patients.** 2<sup>nd</sup> Brainstorming Research Assembly For Young Neuroscientists. 14-16 November 2019.
- **Clinical Significance Of Extracellular Vesicles In Plasma From Glioblastoma Patients.** 68<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery). Rome, Italy. September 2019.

## Poster

- **Intra-operative cerebral angio-sonography with ultrasound contrast agents.** 15<sup>th</sup> Interim Meeting of WFNS 2015
- **From Grey Scale B-Mode to Elastosonography: Multimodal Ultrasound Imaging in Meningioma Surgery.** 15<sup>th</sup> Interim Meeting of WFNS 2015
- **Intra-operative navigated angio-sonography for skull base tumor surgery.** 15<sup>th</sup> Interim Meeting of WFNS 2015
- **Intra-operative cerebral angio-sonography with ultrasound contrast agents.** EANS 2015
- **From Grey Scale B-Mode to Elastosonography: Multimodal Ultrasound Imaging in Meningioma Surgery.** EANS 2015
- **Preoperative Magnetic Resonance and Intraoperative Ultrasound Fusion Imaging for Real-Time Neuronavigation in Brain Tumor Surgery.** EANS 2015
- **Multimodal Ultrasound Imaging in Meningioma Surgery.** RSNA 2015
- **Intraoperative Contrast-Enhanced Ultrasound for Brain Tumor Surgery.** RSNA 2015
- **Chronic dorsal subdural haematoma: single aetiology for CNS superficial siderosis and myelopathy.** EANS 2016
- **Residual tumor identification with intra-operative contrast-enhanced ultrasound during glioblastoma resection.** EANS 2016
- **Quantitative analysis of brain tumors perfusion with contrast enhanced ultrasound.** EANS 2016
- **From Grey Scale B-Mode To Elastosonography: Multimodal Ultrasound Imaging In Glioma Surgery.** 65<sup>th</sup> SINCH 2016
- **Intra-operative Contrast-enhanced US Angiosonography in Spinal Dural Arteriovenous Fistula.** RSNA 2016
- **Applicazione della Narrow band imaging nella resezione di un adenoma ipofisario gigante.** 66<sup>th</sup> SINCH 2017
- **Utilità dell'ecografia con mezzo di contrasto Imaging intraoperatorio nella chirurgia delle fistole artero-venose durali spinali: ruolo dell'ecografia con mezzo di contrasto.** 66<sup>th</sup> SINCH 2017
- **Fusione d'immagini tra RMN funzionale, DTI ed ecografia intra-operatoria per Neuro-navigazione real-time nella chirurgia dei gliomi.** 66<sup>th</sup> SINCH 2017
- **Applicazione dell'ecografia con mezzo di contrasto intra-operatoria per lo studio real-time dei distretti vascolari e analisi quantitativa degli indici di perfusione.** 66<sup>th</sup> SINCH 2017
- **Clinical significance of plasma EVs in Glioblastoma patients.** ACC meeting 2017
- **Spinal Dural Arteriovenous Fistula: Is There a Role for Intraoperative Contrast-Enhanced Ultrasound?** CNS 2017
- **Contrast-enhanced MRI Versus Contrast-enhanced Ultrasound: A Comparison in Glioblastoma Surgery Using Intra-operative Fusion Imaging.** CNS 2017
- **Residual Tumor Identification with Intra-operative Contrast-enhanced Ultrasound During Glioblastoma Resection.** CNS 2017
- **Spinal Dural Arteriovenous Fistula: Is There a Role for Intraoperative Contrast-Enhanced Ultrasound?** EANS 2017
- **Narrow Band Imaging In Giant Pituitary Adenoma Surgery.** EANS 2017
- **Meningioma and Bone Hyperostosis: Expression of Bone Stimulating Factors and Review of the Literature.** 67<sup>th</sup> SINCH 2018
- **Intra-operative Strain Elastography in Brain Tumours Surgery.** CNS 2018
- **Intraoperative multimodal ultrasound for real-time dynamic assessment of venous anatomy and function in neurosurgery.** CNS 2018
- **Clinical significance of plasma EVs in Glioblastoma patients.** EANS 2019

### Corsi attesi

- **Ultrasound in Neurosurgery.** Held by Prof. G. Unsgard and Prof T. Selbekk. Trondheim, Norway. June 2015.
- **EANS HandsOn Course Lyon. Hands-on Course.** Lyon, France. May 2016.
- **Ultrasound in Neurosurgery.** Held by Prof. G. Unsgard and Prof T. Selbekk. Trondheim, Norway. June 2016.
- **WFNS Neurosurgical Anatomy Committee Vascular Course.** Athens, Greece. September 2016.
- **Brainstem Anatomy for Neurosurgeon. Hands-on Course.** Hosted by Prof. O. Bozinov. Zurich, Switzerland. January 2017.
- **EANS HandsOn Course Lyon. Hands-on Course.** Lyon, France. January 2017.
- **Neurosurgical Anatomy Course. Hands-on Course.** Athens, Greece. May 2017.
- **White Matter Dissection Course. Hands-on Course.** Athens, Greece. May 2017.
- **XIX Course of Applied Microneurosurgery - Neurosurgical Approaches And Variations. Hands-on Course.** Milano, Italy. February 2018.
- **Microscopic and Endoscopic Approaches to the Skull Base. Hands-on Course.** Hosted by Prof. S. Froelich and Prof. C. Debry. Strasbourg, France. June 2018.
- **Ecografia cerebrale intraoperatoria in neurochirurgia.** Prof. Marras. Ospedale pediatrico Bambino Gesù. Rome, Italy. November 2018
- **Observership in skull base surgery at Hôpital Lariboisière.** Prof. Sébastien Froelich. Paris, France. December 2018.
- **9th Annual EANS Young Neurosurgeons' Meeting & Research Course.** Berlin, Germany. 28 February - 2 March 2019.
- **Brain Surgical and Endoscopic Anatomy** Held by Prof. Manfred Tschabitscher. Milan, Italy. March 2019.
- **EANS European Training Course – Brain Tumor Session.** Dubrovnik, Croatia. October 2018.
- **EANS European Training Course – Vascular Session.** Valencia, Spain. July 2021.
- **EANS European Training Course – Functional and trauma Session.** Thessaloniki, Greece. August 2021.
- **EANS European Training Course – Spine Session.** Valencia, Spain. September 2021



## Congressi Attesi

- **La spina bifida occulta e la sindrome da ancoraggio midollare.** Milano, Italy. October 2012.
- **12<sup>th</sup> National meeting SIB (Italian society of skullbase).** Novara, Italy. November 2012.
- **Argomenti di neuro-oncologia clinica VI.** Milano, Italy. February 2013.
- **Altitude Sickness: Diagnosis, Therapy and new Advances.** Varese, Italy. September 2013.
- **62<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery).** Palermo, Italy. October 2013.
- **13<sup>th</sup> National meeting SIB (Italian society of skullbase).** Rozzano, Italy. November 2014.
- **15<sup>th</sup> Interim Meeting of World Federation Of Neurosurgical Societies.** Roma, Italy. September 2015.
- **The Brain and Gliomas – When the Connections are Crucial.** Bergamo, Italy. September 2015.
- **International Tissue Elasticity Conference.** Verona, Italy. October 2015.
- **EANS 2015 Congress.** Madrid, Spain. October 2015.
- **5<sup>th</sup> Annual Brain Metastases Research and Emerging Therapy Conference.** Marseille, France. October 2015.
- **25<sup>th</sup> National Congress SIUMB (Italian Society of Ultrasonography in Medicine and Biology).** Roma, Italy. November 2015.
- **Interventional Oncology Sans Frontier.** Milano, Italy. July 2016.
- **EANS 2016 Congress.** Athens, Greece. September 2016.
- **65<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery).** Roma, Italy. October 2016.
- **Second Bellaria Neurovascular Conference – Microsurgical and Endovascular Treatment of Cerebral Aneurysms.** Bologna, Italy. November 2016
- **European Consensus Conference on AVM treatment.** Milano, Italy. December 2016.
- **Intraoperative Imaging Society meeting.** Hannover, Germany. February 2017.
- **66<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery).** Verona, Italy. June 2017.
- **New technonolgies and strategies to fight cancer. Second annual meeting of Alleanza contro il cancro (ACC).** Rome, Italy. October 2017.
- **EANS 2017 Congress.** Venice, Italy. October 2017.
- **Third Bellaria Neurovascular Conference – Bypass and Beyond.** Bologna, Italy. November 2017.
- **The Biomarkers and Biogenesis of Extracellular Vesicles Workshop.** Padua, Italy. August 2018.
- **67<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery).** Ancona, Italy. September 2018.
- **13th Meeting of the European Association of Neuro-Oncology.** Stockholm, Sweden. October 2018.
- **9th Annual EANS Young Neurosurgeons' Meeting & Research Course.** Berlin, Germany. 28 February - 2 March 2019
- **EANS 2019 Congress.** Dublin, Ireland. September 2019.
- **2<sup>nd</sup> Brainstorming Research Assembly For Young Neuroscientists.** 14-16 November 2019.
- **68<sup>th</sup> National Congress SINCh (Italian Society of Neurosurgery).** Rome, Italy. September 2019.
- **Kick Off Meeting for The Project Liquid Biopsy in Glioblastoma - Alleanza Contro Il Cancro (ACC).** Milano, Italy. February 2020.

## NOTE AGGIUNTIVE

-Si autorizza il trattamento dei propri dati personali ai sensi del D.Lgs. n.196 del 30/06/2003.

Data e Luogo: MILANO, 22/02/22

Firma: 

**-Il presente CV ha funzione di autocertificazione ai sensi del D.P.R. n. 445 del 28/ 12/2000.**

Data e Luogo: *MILANO, 22/02/22*

Firma: *[Three handwritten signatures in blue ink]*