

CURRICULUM VITAE

Dr. FEDERICO G. LEGNANI

Neurochirurgo

Data di nascita: 12/09/1974

Il dott. Legnani è un neurochirurgo formatosi professionalmente presso l'Università di Milano e la Johns Hopkins University di Baltimora negli USA.

Dal 2005 lavora presso l'Istituto Besta occupandosi di microchirurgia delle **neoplasie cerebrali, biopsia robotica delle lesioni inoperabili** e diagnosi e trattamento della patologia della colonna e del midollo spinale, sia tumorale che degenerativa.

Dal 2017 è Direttore Medico dell'Unità clinica degli Studi di Fase I e si occupa di una vasta gamma di studi clinici incentrati sulla ricerca di terapie innovative per molti tipi di tumore cerebrale.

Dal 2019 ha ricevuto l'incarico di **“eccellenza professionale” nella neuro-oncologia chirurgica dei tumori gliali.**

Dal 2019 ha ricevuto **l'abilitazione scientifica nazionale a professore di II fascia (professore associato)** in Neurochirurgia.

Il suo interesse clinico e di ricerca è rivolto alla patologia oncologica dell'encefalo e del rachide, con un particolare riferimento a:

- **Microchirurgia dei tumori gliali** (glioblastoma, astrocitoma anaplastico, astrocitoma di basso grado) lesioni in area eloquente (area motoria e linguaggio), pianificazione preoperatoria con RM Funzionale, RM intraoperatoria, Trattografia, intervento in microchirurgia assistita da immagini (neuronavigazione, ecografia intraoperatoria, fluorescenza 5ALA).

– **Biopsia chirurgica robotica** delle lesioni cerebrali inoperabili.

- **Microchirurgia dei tumori intrinseci del cervelletto** (ependimoma, medulloblastoma, astrocitoma pilocitico).

- **Microchirurgia dei meningiomi dei neurinomi e delle metastasi.**

- **Microchirurgia dei tumori del midollo spinale** (ependimoma, meningioma, Schwannoma, astrocitoma) e **delle patologie degenerative del rachide lombare e cervicale** (ernia discale, stenosi del canale spinale).

CONTATTI

Segreteria di Neurochirurgia 02/23942411-2412

ATTUALE POSIZIONE LAVORATIVA

Dirigente medico neurochirurgo,
Direttore medico dell'Unità clinica degli Studi di Fase 1
Unità operativa Neurochirurgia I (neuro-oncologia) e IV divisione (chirurgia spinale), Dipartimento di Neurochirurgia

Abilitazione scientifica nazionale a Professore di II fascia settore 06/E3 - Neurochirurgia e Chirurgia Maxillo Facciale (profilo: settore scientifico disciplinare MED/27 – Neurochirurgia, 19/09/2019-19/09/2025)

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TITOLI DI STUDIO

15 Settembre 1988- 17 Luglio 1993 Diploma di maturità presso il Liceo Classico “G. Berchet” di Milano

1 Novembre 1993- 19 Ottobre 1999 Laurea in Medicina e Chirurgia presso l’Università degli Studi di Milano. Tesi. “Angiomi cavernosi ed epilessia: valutazione pre-chirurgica con metodiche non invasive e risultati clinici a distanza.” (110/110)

1 Novembre 1999- 11 Novembre 2005 Specialità in Neurochirurgia presso l’Università degli Studi di Milano. (70/70)

FELLOWSHIP

4 Ottobre 2002- 15 Novembre 2004 Post-Doctoral Research Fellow, presso la divisione di Neurochirurgia Oncologica e Cerebrovascolare della Johns Hopkins University, School of Medicine, Baltimore, MD, USA

CLINICAL TRIAL TRAINING

-Certificato di GOOD CLINICAL PRACTICES (GCP), Expiration Date: 26 Gennaio 2023.
- Certificato di Advance Life Support (ALS)
-Certificato di BLS-D RETRAINING

AWARDS, HONORS

1999 Vincitore dell’*Erasmus-Socrates exchange program* presso la Virchow Klinik della Humboldt University, Berlino, Germania

2004 Vincitore dell’*Harvey Cushing Hunterian Award* presso il dipartimento di Neurochirurgia di Johns Hopkins University, School of Medicine, Baltimore,

MD, USA, attribuito al Fellow con i migliori risultati di ricerca in neurochirurgia

- 2004 Vincitore dell'*Agustus McCravey Award* presso la Southern Neurosurgical Society per lo studio dal titolo: "Lysis of intraparenchymal hematoma with stereotactically implanted tPA polymers in a rabbit model"
- 2004 Vincitore del *Galbraith Award* presso la AANS/CNS Cerebrovascular Section per lo studio dal titolo: "Simvastatin attenuates experimental cerebral vasospasm and ameliorates serum markers of neuronal and endothelial injury in patients after subarachnoid hemorrhage: A dose-response effect dependent on endothelial nitric oxide synthase"
- 2004 – 2007 Grant Finanziato NIH RFA R21-R33 (2004) dal titolo: "Enhancement of Brain Tumor Immunotherapy by Fas-L RNAi" (Principal Investigator: Prof. Alessandro Olivi). Ruolo nel progetto: grant writer e fellow.
- 2008-2011 Grant Finanziato Ministero della Salute Ricerca Oncologica, progetto ordinario dal titolo: "Role of Brain Mapping in the surgical treatment of low grade gliomas". (Principal Investigator: Prof. G. Broggi; Scientific Coordinators: Dr. F. DiMeco, Prof. SM Gaini). Ruolo nel progetto: grant writer e fellow.
- 2014-presente Responsabile scientifico presso la Fondazione IRCCS Istituto Neurologico C. Besta dello studio dal titolo : "Very fast Imaging by Broadband coherent Raman (VIBRA)". Studio diretto dal Prof. D. Polli (Dipartimento di Fisica, Politecnico di Milano) ERC Consolidator Grant (2014).
- 2016-presente Principal Investigator nel Progetto dal titolo: "Application of the iSYS1® Miniature Guidance Device for Stereotactic Neurosurgical Interventions: A Prospective, Exploratory Pilot Study". Studio prospettico, a singolo braccio, monocentrico, interventistico non farmacologico di neurochirurgia robotica in collaborazione con l'Austrian Center for Medical Innovation and Technology (ACMIT GmbH) supportato da Medtronic USA.

CAMPI DI INTERESSE CLINICO

Principalmente interessato alla chirurgia dei tumori cerebrali della volta e della base cranica e della colonna vertebrale (degenerativa e tumorale). Nello specifico:

- Approccio multimodale ai gliomi di alto grado nelle aree del linguaggio al fine di ottenere la massima resezione tumorale nel rispetto delle funzioni cerebrali. Interventi in awake surgery (chirurgia a paziente sveglio). Interventi in anestesia generale con valutazioni neuropsicologiche e neurofisiologiche pre e post-operatorie combinate con tecniche avanzate di neuroimaging come fMRI, DTI e TMS neuronavigato, integrate intraoperatoriamente con elettrodi endotracheali ed elettrostimolazione corticale (ECS)
- Tailored craniotomy per tumori cerebrali intrinseci delle aree e delle vie motorie con mappatura cerebrale eseguita stimolando il tumore e la corteccia circostante alla ricerca di risposte negative e positive.
- Implementazione intraoperatoria di ultrasuoni (US) con l'uso di contrasto (CEUS), elastografia e sistemi di navigazione ultrasound.
- Sviluppo in collaborazione con Medtronic e Micro Guides Systems di un nuovo dispositivo robotico per eseguire biopsie stereotassiche frameless in pazienti affetti da tumore cerebrale non passibile di resezione chirurgica.

ESPERIENZA CHIRURGICA

Più di 1300 casi come primo chirurgo: 80% chirurgia cranica elettiva, principalmente tumori cerebrali (intra-assiali ed extra-assiali, sopra e infratentoriali), 20% colonna vertebrale (tumori intra ed extra midollari e degenerativa della colonna vertebrale).

Più di 3000 interventi come secondo chirurgo (60% chirurgia cranica elettiva principalmente tumori cerebrali, 30% colonna vertebrale degenerativa, 10% tumori spinali).

ESPERIENZA DI RICERCA

2001- 2002

Collaborazione con il laboratorio di Neuro-immuno-oncologia presso la Fondazione IRCCS Istituto Neurologico “C. Besta”, Milano

2002- 2004

Post-Doctoral Research Fellow, presso la divisione di Neurochirurgia Oncologica e Cerebrovascolare della Johns Hopkins University, School of Medicine, Baltimore, MD, USA

2013 - presente

Collaborazione con il Prof. A. Vescovi (Università Milano-Bicocca), nella creazione di cellule staminali di tumore cerebrale (Tumor Founding Stem Cells). Titolo del progetto: “Arricchimento

delle cellule staminali del cancro del glioma umano (GSC). Nuovi regolatori specifici per GSC. Terapia combinatoria con efrine e BMP4 ”.

2013 - presente

Collaborazione con il Prof. F. Retta (Università di Torino) nell'identificazione dei fattori di rischio genetico degli emangiomi cavernosi. Titolo del progetto: “Identificazione dei fattori di rischio di valore diagnostico e prognostico associati alla progressione clinica e alla gravità della malattia da CCM”.

2014- presente

Collaborazione con il Prof. D. Polli nel progetto: “Very fast Imaging by Broadband coherent Raman (VIBRA)”.

PRINCIPALI INTERESSI DI RICERCA PRECLINICA

Le aree di ricerca includono: 1) identificare e testare nuovi agenti antitumorali, inclusi fattori anti-angiogenici rilasciati localmente da polimeri biodegradabili a rilascio controllato 2) uso combinato di diverse classi di farmaci antitumorali 3) uso di cellule staminali geneticamente modificate per fornire localmente agenti antitumorali per il trattamento di tumori cerebrali sperimentali in modelli animali 4) Cellule staminali tumorali cerebrali (cellule staminali che fondano il tumore): identificazione delle caratteristiche chiave relative alla biologia del tumore cerebrale che possono essere affrontate e risolte attraverso le cellule staminali tumorali 5) somministrazione locale di farmaci antinfiammatori per trattare il vasospasmo cerebrale dopo emorragia subaracnoidea in modelli animali (ratto, coniglio, scimmia) 6) potenziamento dell'immunoterapia mediante down-regulation dell'apoptosi dei linfociti T peritumorali nel pathway Fas-FasL 6) sviluppo di un microscopio innovativo per l'imaging non invasivo in tempo reale di cellule e tessuti utilizzando la spettroscopia coerente Raman.

EDITORIAL BOARDS

Anno	Ruolo	Rivista
2014-present	Ad hoc reviewer	Neurosurgery
2014-present	Ad hoc reviewer	World Neurosurgery
2013-present	Ad hoc reviewer	Tumori Journal
2016- present	Ad hoc reviewer	Journal of Neuro-oncology
2020-present	Ad hoc reviewer	Frontiers Oncology
2020-present	Ad hoc reviewer	Frontiers Neurology

CORSI DI DISSEZIONE SU CADAVERE

- Maggio 2000 Intensive Hands-on Dissection Course on Skull Base Surgery. Subtemporal Transzygomatic & Subtemporal Infratemporal Approaches” (faculty: L.N. Sekhar, B. George). Istituto Scientifico San Raffaele, Milano 18-20/05/2000
- Maggio 2001 Second Intensive Hands –on Dissection Course on Skull Base Surgery: Surgical Approaches to the Sellar Tumors” Guest Faculty: E.Laws (Charlottesville USA), R Fhalbush (Nuremberg Germany), Milano 17-19/05/2001
- Maggio 2011 International Hands-on Dissection Course: Surgery of Cerebello-Pontine Angle Tumors’ (Faculty: P. Mortini, A.J. Caputy, P.H. Roche, M. Tatagiba). Istituto Scientifico San Raffaele, Milano, 12-14/05/2011.
- Dicembre 2011 5th Annual Course on Skull Base Surgery, Johns Hopkins University School of Medicine - Surgical Approaches to the Skull Base and Occipitocervical Junction: from microsurgery to endoscopy. Dicembre 2011, Vista LAB, Baltimore, MD, U.S.A.
- Aprile 2017 Cranial Base Surgery Course “A 360° Perspective”, Emory University School of Medicine Aprile 6-8, 2017

TEACHING

- 17/01/2019 Master dissector nel corso Mectron Hands-on Workshop: Get used to Piezosurgery in Neurosurgery. Posterior thoracic and cervical laminotomy, posterior lumbar laminectomy
- 16/03/2019 Libera docenza nel corso: Intraoperative monitoring (IOM) in neurosurgery course. IOM in spine surgery, the neurosurgeon point of view.
- 7-8/11/2019 Libera docenza al Medtronic Surgical Synergy week: “case discussion session I and II”; Hands on workshop session I and II- Stealth Autoguide Robot

16/01/2020

Master dissector nel corso Mectron Hands-on Workshop: Get used to Piezosurgery in Neurosurgery. Anterior cervical corpectomy, posterior cervical en-block laminotomy, occipito-cervical decompression for Chiari Malformation.

MEMBERSHIP PROFESSIONALI

SiNch: Società Italiana di Neurochirurgia

EANS: European Association of Neurosurgical Societies

BIBLIOGRAFIA

Google Scholar Citations

	All	From 2016
Citations	1195	609
<u>H-Index</u>	23	15
<u>i10-index</u>	35	22

BIBLIOGRAFIA

1. Marras C, Mendola C, Legnani FG, DiMeco F., “Immunotherapy and biological modifiers for the treatment of malignant brain tumors”. *Curr Opin Oncol.* 2003 May;15(3):204-8.
2. Legnani FG, Pradilla G, Wang PP, Brem H, Olivi A, Di Meco F. Local delivery of antineoplastic agents using biodegradable polymers for the treatment of malignant brain tumors. *Expert Rev Neurotherapeutics.* 2003; 3:89-102.
3. Pradilla G, Wang PP, Legnani FG, Ogata L, Dietsch GN, Tamargo RJ. Anti-CD11/CD18 monoclonal antibody therapy prevents vasospasm after subarachnoid hemorrhage in rabbits. *J Neurosurg.* 2004 July; 101(1):88-91.
4. Pradilla G, Wang PP, Legnani FG, Frazier JL, Tamargo RJ. Pharmacokinetics of controlled release polymers in the subarachnoid space after subarachnoid hemorrhage in rabbits. *J Neurosurg.* 2004 July; 101(1):99-103.
5. Pradilla, G., Thai, Q.A., Legnani, F.G., Hsu, W., Kretzer, R.M., Wang, P. P., Tamargo, R. J. Delayed intracranial delivery of a nitric oxide donor from a

- controlled-release polymer prevents experimental cerebral vasospasm in rabbits. *Neurosurgery* 2004 December; 55 (6):1393-99.
6. Mantha, A., Legnani, F.G., Bagley, C.A., Gallia, G., Garonzik, I., Pradilla, G., Amundson, E., Tyler, B.M., Brem, H., Gokaslan, Z. A new model of spinal metastasis in rats. *J Neurosurg Spine* 2005 March; 2 (3): 303-307 Cover Article.
 7. Raza SM, Pradilla G, Legnani FG, Thai QA, Olivi A, Brem H. Local delivery of antineoplastic agents for the treatment of malignant brain tumors. *Expert Opin Mol Ther*, 2005, (5) 4: 477-494
 8. Pradilla, G., Thai, Q.A., Legnani, F.G., Clatterbuck, R.E., Gailloud, P., Murphy, K.P.J., Tamargo, R.J. Local delivery of ibuprofen via controlled-release polymers prevents angiographic vasospasm in a monkey model of subarachnoid hemorrhage. *Neurosurgery*, 2005 July; 57 (1 Suppl):184-90.
 9. Mavinkurve, G., Pradilla, G., Legnani, F.G., Bagley, C.A., Brem, H., Jallo, G. A novel intramedullary spinal cord tumor model in rabbits: functional, radiological, and histopathological characterization. *J Neurosurg Spine*, 2005 August; 3 (2): 142-8
 10. Pradilla, G., Legnani, F. G., Petrangolini, G., Francescato, P., Chillemi, F., Tyler, B. M., Brem, H., Olivi, A., DiMeco, F. Local delivery of a novel endostatin fragment for the treatment of experimental gliomas. *Neurosurgery*, 2005 December; 57 (5) 1032-40.
 11. Pappada G, Beghi E, Marina R, Agostoni E, Cesana C, Legnani F, Parolin M, Petri D, Sganzerla EP. Hemodynamic instability after extracranial carotid stenting. *Acta Neurochir (Wien)*. 2006 Jun;148(6):639-45. Epub 2006 Mar 8.
 12. Thai, Q.A., Pradilla, G., Legnani, F.G., Kretzer, R.M., Hsu, W., Tamargo, R.J. Lysis of intraparenchymal hematoma with stereotactically implanted tissue plasminogen activator polymers in a rabbit model. *J Neurosurg*. 2006 Sep;105(3):424-9
 13. Caplan J, Pradilla G, Hdeib A, Tyler BM, Legnani FG, Bagley CA, Brem H, Jallo G. A novel model of intramedullary spinal cord tumors in rats: functional progression and histopathological characterization. *Neurosurgery*. 2006 Jul;59(1):193-200; discussion 193-200.
 14. McGirt MJ, Pradilla G, Legnani FG, Thai QA, Recinos PF, Tamargo RJ, Clatterbuck RE. Systemic administration of simvastatin after the onset of experimental subarachnoid hemorrhage attenuates cerebral vasospasm. *Neurosurgery*. 2006 May;58(5):945-51; discussion 945-51.

15. Legnani FG, Pradilla G, Thai QA, Fiorindi A, Recinos PF, Tyler BM, Gaini SM, DiMeco F, Brem H, Olivi A. Lactacystin exhibits potent anti-tumor activity in an animal model of malignant glioma when administered via controlled-release polymers. *J Neurooncol.* 2006 May;77(3):225-32.
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17. Gessi M, Legnani FG, Maderna E, Casali C, Solero CL, Pollo B, DiMeco F. Mucinous low-grade adenocarcinoma arising in an intracranial enterogenous cyst: case report. *Neurosurgery.* 2008 Apr;62(4):972-3;
18. Recinos VR, Bekelis K, Ziegler SG, Vick D, Hertig S, Tyler BM, Li KW, Kosztowski T, Legnani FG, Brem H, Olivi A. Epirubicin exhibits potent anti-tumor activity in an animal model of malignant glioma when administered via controlled-release polymers. *J Neurooncol.* 2010 Mar;97(1):1-10. Epub 2009 Aug 20. PubMed PMID: 19693439.
19. Jansen T, Tyler B, Mankowski JL, Recinos VR, Pradilla G, Legnani F, Laterra J, Olivi A. FasL gene knock-down therapy enhances the antiglioma immune response. *Neuro Oncol.* 2010 May;12(5):482-9. Epub 2010 Jan 29. PubMed PMID: 20406899; PubMed Central PMCID: PMC2940616.
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- technique for brain tumor biopsies. *J Neurosurg*. 2019 Jan 18;1-9. doi: 10.3171/2018.8.JNS182096. [Epub ahead of print] PubMed PMID: 30660122.
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CAPITOLI DI LIBRO

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2. Mantha A, **Legnani FG**, and Gokaslan ZL. Lumbosacral Fixation (Synthes). In *Surgical Techniques in Spinal Instrumentation*, published by Thieme Medical Publishers.

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85. Valentini L.G., Casali C., Visintini S., Legnani F.G., Chiapparini L., Righini A., Gementi P., Nicolini U.: Pre Natal Diagnosis of CSF Disturbances in the third trimester. *ISPN 35th Annual Meeting, Liverpool, UK 9-13 Settembre 2007.*
86. Francesco DiMeco, M.D., Cecilia Casali, M.D., Federico G. Legnani, M.D., and Carlo L. Solero, M.D. Craniotomies with no burr-holes using the Anspach

- Control Depth Attachment® drill. *Meeting of the German Neurosurgical Society*. Wurzburg, Germany June 1-4, 2008.
87. Francesco DiMeco, M.D., Cecilia Casali, M.D., Federico G. Legnani, M.D., Giovanni Broggi, M.D., Sergio Giombini and Carlo L. Solero, M.D. Meningiomas Invading the Superior Sagittal Sinus : A Series of 181 Patients. *6th International Meeting on meningiomas and cerebral venous system*, Boston, MA, Sept 3-6 2008.
 88. Casali. C, Legnani F G., Visintini S., Valentini L., Solero C. L.. Chiari II Malformations: case analysis. Consensus Conference sulla Malformazione di Chiari. 7 – 9 Maggio 2009.
 89. R. Cordella, F. Legnani, C. Casali, S. Visintini, C.L. Solero, L.G. Valentini (*Milano*). Monitoraggio e mappaggio intraoperatorio durante il disancoraggio midollare: l'esperienza con i bambini all'istituto Besta. Società Italiana di Neurochirurgia, 58° Congresso Nazionale. Lecce 14 - 17 Ottobre 2009. Poster
 90. L.G. Valentini, S. Visintini, C. Casali, F. Legnani, G. Selvaggio, V. Saletti, E. Pagliano, A. Erbetta, W. Scaioli, C.L. Solero. Occult Spinal Dysraphism: The lesson learned by the retrospective analysis of a 112 cases about natural history, surgical indications, urodynamic testing and intraoperative EMG monitoring. Società Italiana di Neurochirurgia, 58° Congresso Nazionale. Lecce 14 - 17 Ottobre 2009. Oral talk.
 91. Francesco DiMeco; Federico G. Legnani; Cecilia Casali; Ignazio Vetrano; Marco Varisco; Carlo L. Solero. Craniotomy versus Craniectomy for Posterior Fossa Tumors: A Prospective Study to Evaluate Complications after Surgery. Congress of Neurological Surgeons, 60th Annual Meeting San Francisco, CA 16 - 21 Ottobre 2010. Digital Poster
 92. Tomas Garzon-Muvdi, Gustavo Pradilla, Federico G. Legnani, Diana L. Vargas, Quoc-Anh Thai, Carlos Pardo-Villamizar, Rafael J. Tamargo. Local Delivery of Ibuprofen via Controlled-release Polymers Decreases Expression of Cell Adhesion Molecule VCAM-1 in Endothelial Cells of Intracranial Vessels. Congress of Neurological Surgeons, 60th Annual Meeting San Francisco, CA 16 - 21 Ottobre 2010. Digital Poster
 93. Federico G. Legnani, Andrea Saladino, Cecilia Casali, Ignazio G. Vetrano, Marco Varisco, Luca Mattei, Francesco Prada, Alessandro Perin, Antonella Mangraviti, Carlo L. Solero and Francesco DiMeco. Craniotomy versus Craniectomy for Posterior Fossa Tumors: A Prospective Study to Evaluate Complications after Surgery. European Association of Neurological Surgery, Annual Meeting Bratislava, 24- 27 Oct 2012. Oral Poster

94. Prada F, Perin A, Martegani A, Aiani L, Solbiati L, Lamperti M, Casali C, Legnani F, Mattei L, Saladino A, Saini M, DiMeco F. Intra-operative contrast enhanced ultrasound in brain tumor surgery. World Federation of Neurosurgical Societies (WFNS) Congress, Seoul, Korea, 2013.
95. Prada F, DelBene M, Mattei L, Lodigiani L, Kolev V, DeBeni S, Casali C, Legnani F, Perin A, Saladino A, Solbiati L, Sakas G, DiMeco F. Fusion Imaging for intra-operative ultrasound based navigation Ningxia Medical University and Fond. IRCCS Istituto Neurologico C.Besta Joint Meeting, Ynchuan, China, 23rd – 24th September 2013.
96. Prada F, Perin A, Martegani A, Aiani L, Solbiati L, Lamperti M, Casali C, Legnani F, Mattei L, Saladino A, Saini M, DiMeco F. Intra-operative contrast enhanced ultrasound in brain tumor surgery. Congress of the European Association of Neurosurgical Societies (EANS), TelAviv, Israel, October 2013.
97. Prada F, DelBene M, Mattei L, Lodigiani L, Kolev V, DeBeni S, Casali C, Legnani F, Perin A, Saladino A, Solbiati L, Sakas G, DiMeco F. Fusion Imaging for intra-operative ultrasound based navigation Ultrasound-assisted surgery of spinal tumors: ultrasonography characteristics and pictorial essays. Congresso della Società Italiana di Neurochirurgia (SiNCH), Palermo, Ottobre 2013.
98. Prada F, Vetrano I, Chiapparini L, Erbetta A, Casali C, Legnani F, Perin A, Saladino A, Saini M, DiMeco F. Intraoperative contrast enhanced ultra-sound (CEUS) in brain tumor surgery. Congresso della Società Italiana di Neurochirurgia (SiNCH), Palermo, Ottobre 2013.
99. Prada F, Perin A, Martegani A, Aiani L, Solbiati L, Lamperti M, Casali C, Legnani F, Mattei L, Saladino A, Saini M, DiMeco F. Caratterizzazione delle lesioni gliali mediante contrast enhanced ultra-sound (CEUS). XXIV Congresso della Società Italiana di Ecografia in Medicina e Biologia (SIUMB), Roma, Novembre 2013.
100. Prada F, Del Bene M, Mattei L, Lodigiani L, Kolev V, DeBeni S, Casali C, Legnani F, Perin A, Saladino A, Solbiati L, Sakas G, DiMeco F. Fusione di Immagine RMN-US per la navigazione intraoperatoria nella chirurgia dei tumori cerebrali Euroson School, Roma, Novembre 2013.
101. Federico G, Legnani, Roberto Cordella, Piergiorgio d’Orio, Cecilia Casali, Andrea Saladino, Luca Mattei, Francesco Prada, Alessandro Perin, Riccardo Fornaro, Antonella Mangraviti, Ignazio G. Vetrano, Massimiliano Del Bene, Carla Richetta, Alessandro Moiraghi1, Marco Saini and Francesco DiMeco MD. Gliomi di alto grado in area motoria: outcome chirurgico dopo craniotomia mirata sulla lesione e monitoraggio neurofisiologico intraoperatorio. Congresso della Società Italiana di Neurochirurgia (SiNCH), Napoli, Giugno 2015.

102. Prada Francesco, Del Bene massimiliano, Casali Cecilia, Legnani Federico, Saladino Andrea, Perin Alessandro, Vetrano Ignazio Gaspare, Mattei Luca, Moiraghi Alessandro, Richetta Carla, Saini Marco, Di Meco Francesco (Italy). Preoperative magnetic resonance and intraoperative ultrasound fusion imaging for real-time neuronavigation in brain tumor surgery. 15th Interim Meeting of the World Federation on Neurosurgical Societies. 8 -12, 2015 Rome.
103. Alessandro Moiraghi, Prada Francesco, Del Bene Massimiliano, Richetta Carla, Saladino Andrea, Legnani Federico, Casali Cecilia, Vetrano Ignazio, Perin Alessandro, Saini Marco, Sakas Georgios, Di Meco Francesco (Italy.) Navigated intraoperative ultrasound in glioma surgery: impact on extent of resection and patient outcome - a single center experience. 15th Interim Meeting of the World Federation on Neurosurgical Societies. 8 -12, 2015 Rome.
104. Saladino A., Mangraviti A., Casali C., Legnani F., Prada F., Perin A., Saini M., Mattei L., Fornaro R., Vetrano I., Lamperti M.*, DiMeco F. La posizione semi-seduta: analisi del rischio e dell'outcome chirurgico in una serie consecutiva di 425 pazienti adulti sottoposti a chirurgia cranica elettiva. 64°Congresso Nazionale SiNch Napoli, 24-26 Giugno 2015.
105. Prada f., M. Del Bene, C. Casali, F. Legnani, A. Perin, A. Saladino, L. Mattei, I.G. Vetrano, M. Saini, F. Dimeco. From grey scale b-mode to elastosonography: multimodal ultrasound imaging in glioma surgery. Poster SINCH 19-21 Ottobre 2016.
106. F. Prada , C. Richetta, M. Del Bene, C. Casali , F. Legnani , A. Perin , A. Saladino , I.G. Vetrano , L. Mattei , L. Sconfienza , G. Mauri , L. Solbiati , M. Saini, F. DiMeco, Quantitative analysis of brain tumors perfusion with contrast enhanced ultrasound. Poster EANS Congresso 4-8 Settembre 2016.
107. E. Gambatesa, A. Perin, F.M. Lombardo, T.F. Galbiati, N.I. Riker, H. Silberberg, C. Caggiano, L. Mattei, F. Tutucu, G. Atalay, C. Casali, F.G. Legnani, F.U. Prada, A. Saladino, M. Saini, F. Dimeco: Planning, rehearsal e navigazione 3d in neurochirurgia: lo studio stars. Oral presentation SINCH 21-23 Giugno 2017 Verona
108. F. Prada, M. Del Bene, C. Casali, A. Saladino, F. Legnani, A. Perin, L. Mattei, V. Cojazzi, M. Saini, F. Dimeco: Fusione d'immagini tra RMN funzionale, dti ed ecografia intra-operatoria per neuronavigazione real-time nella chirurgia dei gliomi, Poster Congresso SINCH 21-23 Giugno 2017
109. F.G. Legnani, A. Franzini, L. Mattei, C. Casali, A. Saladino, F. Prada, A. Perin, M. Saini, C. Caggiano, C. Fanizzi, R. Di Bonaventura, G. Tringali, G. Kronreif, F. DiMeco: Evaluation of the iSYS1® robot for frameless brain biopsy: a prospective, exploratory pilot study: Oral presentation EANS meeting, Venice, October 2017.

110. F.G. Legnani, A. Franzini, L. Mattei, A. Saladino, C. Casali, F. Prada, A. Perin, V. Cojazzi, C. Fanizzi, M. Saini, G. Kronreif, F. DiMeco. Biopsie robotiche con sistema miniaturizzato ISYS1® in pazienti affetti da tumore cerebrale: studio di fattibilità, accuratezza e sicurezza. Congresso SINCH, Ancona 19-21 Settembre 2018
111. Finocchiaro G, Gentner B, Eoli M, Farina F, DiMeco F, Legnani F, Pollo B, Zambanini A, Mazzoleni S, Russo C, Ciceri F, Naldini L. TEM-GBM-001 study: autologous CD34+ enriched hematopoietic progenitor cells genetically modified for human interferon- α 2 & administered to patients with glioblastoma & an unmethylated MGMT promoter. European Association of Neuro-Oncology (EANO) 14th annual Meeting, Lyon, France September 19-22 2019
112. B. Gentner , F. Ciceri , F. DiMeco , F. Legnani , M. Eoli , B. Pollo , F. Farina, S. Mazzoleni , C. Russo , L. Naldini , G. Finocchiaro. A phase I/IIa dose escalation study evaluating the safety and efficacy of autologous CD34+ enriched hematopoietic progenitor cells genetically modified for human interferon- α 2 in patients with GBM and an unmethylated MGMT promoter (TEM-GBM-001 - NCT 03866109). Society of Neuro-Oncology 2019 Annual Meeting Phoenix, Arizona • November 20 - 24, 2019
113. M. Saini, I. Vetrano, M. Del Bene, F. Prada, A. Perin, L. Mattei, F. Legnani, C. Casali, F. DiMeco. Nuove prospettive nella chirurgia dei tumori cerebrali e del basicranio. Gli approcci craniotomici con lo scalpello piezoelettrico. Serie chirurgica e analisi dei risultati. Congresso SINCH, Roma 16-18 Settembre 2019.
114. F.G. Legnani, A. Mangraviti, A. Franzini, L. Mattei, A. Saladino, C. Casali, A. Perin, C. Caggiano, M. Minichiello, C. Fanizzi, M. Del Bene, S. Padovan, M. Saini, F. DiMeco. Piezoelettrico nella chirurgia spinale: technical note e studio prospettico monocentrico di fattibilità e sicurezza. Congresso SINCH, Roma 16-18 Settembre 2019.
115. G. Finocchiaro, B. Gentner, Eoli M, F. Farina, E. Anghileri, S. Girlanda, M. Carrabba, F. DiMeco, F. Legnani, B. Pollo, V. Cuccarini, MG. Bruzzone, M. Saini, P. Ferroli, A. Capotondo, S. Mazzoleni, A. Zambanini, C. Russo, L. Naldini, F. Ciceri TEM-GBM-001: autologous CD34+ enriched hematopoietic progenitor cells genetically modified for human interferon- α 2 & administered to patients with glioblastoma & an unmethylated MGMT promoter. Congresso AINO, Udine 10-12 Novembre 2019.
116. Gaetano Finocchiaro, Bernhard Gentner, Francesca Farina, Marica Eoli, Stefania Girlanda, Valeria Cuccarini, Matteo Carrabba, Elena Anghileri, Bianca Pollo, Maria Grazia Bruzzone, Federico Legnani, Francesco DiMeco, Marco Saini, Paolo Ferroli, Stefania Mazzoleni, Andrew Zambanini, Carlo Russo, Luigi

Naldini, Fabio Ciceri. TEM-GBM-001: autologous CD34+ enriched hematopoietic cells genetically modified for human interferon- α 2 & administered to patients with glioblastoma & an unmethylated MGMT promoter (NCT 03866109). 2020 ASCO Annual Meeting (May 29 - June 2, 2020).

117. Fabio Ciceri, Bernhard Gentner , Francesca Farina , Alessia Capotondo , Marica Eoli , Elena Anghileri , Matteo Giovanni Carabba , Valeria Cuccarini , Francesco Di Meco , Federico Legnani , Bianca Pollo , Monica Patanè , Maria Grazia Bruzzone , Marco Saini , Paolo Ferroli , Roberto Pallini , Alessandro Olivi, Rosina Paterra , Mariagrazia garramone , Valentina Brambilla , Tiziana Magnani , Gabriele Antonarelli , Matteo Maria Naldini , Matteo Barcella , Stefania Mazzoleni , Carlo Russo , Luigi Naldini , Gaetano Finocchiaro. A PHASE I-IIA STUDY OF GENETICALLY MODIFIED TIE-2 EXPRESSING MONOCYTES IN PATIENTS WITH GLIOBLASTOMA MULTIFORME (TEM-GBM STUDY). European Hematology Association (EHA), May, 12, 2021.

INVITED SPEAKERS ON PODIUM PRESENTATION

F.G. Legnani: Trattamento dei Gliomi Recurrent: Le Terapie Loco-Regionali. Palazzo Regione Lombardia. Milan, December 15, 2007, (Invited Speaker).

F.G. Legnani: Orchestra Workshop on Brain Cancer. Presentation and discussion on the neuro-oncological clinical cases. Lecce 2008, (Invited Speaker).

F.G. Legnani : Seventh Annual Neuro-Oncology Updates. Novel Strategies to Enhance Immunotherapy of Malignant Gliomas. Baltimore 18-19 September, 2008 (Invited Speaker).

F.G. Legnani: Argomenti di Neuro-Oncologia Clinica. VI Incontro con l'Esperto. Trattamento loco-regionale nei gliomi di alto grado. Milan, February 8, 2012, (Invited Speaker).

F.G. Legnani: Il paziente con tumore cerebrale: una sfida diagnostico-terapeutica. Ottimizzazione dell'exeresi e chemioterapia locoregionale. Lecco, September 14, 2013 (Invited Speaker).

F.G. Legnani: Metastasi cerebrali: diagnosi e modelli sperimentali. Aspetti chirurgici delle metastasi cerebrali Milan, February, 12, 2014 (Invited Speaker).

F.G. Legnani: Il glioblastoma, aggiornamenti sulle nuove terapie. Prospective study of carmustine wafers in combination with 6-month metronomic temozolomide and radiation therapy in newly diagnosed glioblastoma: preliminary results. Milan, April 15, 2014 (Invited Speaker).

F.G. Legnani: Come, quando e con che risultati occorre usare la chirurgia."Sharing best practice. Il trattamento delle metastasi cerebrali da NSCLC" Milan, Nov 21-22, 2016 (Invited Speaker).

F.G. Legnani: Il ruolo della neurochirurgia negli ependimomi e nei tumori rari. Gli ependimomi e gli altri tumori "più rari". Milan, March 9th 2018 (Invited Speaker).

In compliance with the regulation in force I declare that this curriculum vitae acts as self-certification.

Milan 20 Luglio 2021

Federico G. Legnani, MD