

**EUROPEAN
CURRICULUM VITAE
FORMAT**

PERSONAL INFORMATION

Name	DiMeco Francesco, M.D.
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Telephone	+39-02-2394 2421;
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E-mail	francesco.dimeco@istituto-besta.it ; francesco.dimeco@unimi.it
Nationality	Italian
Date of birth	17/05/1962

WORK EXPERIENCE

- | | |
|--|---|
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer<ul style="list-style-type: none">• Type of business or sector• Occupation or position held | 2018 – present
University of Milan
Department of Pathophysiology and Transplantation
Professor of Neurosurgery |
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer<ul style="list-style-type: none">• Type of business or sector• Occupation or position held | 2012 – present
Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta," Milan
Department of Neurosurgery
Director |
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer<ul style="list-style-type: none">• Type of business or sector• Occupation or position held | 2011- present
Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta," Milan
Department of Neurosurgery
Director of 1 st Division of Neurosurgery |
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer<ul style="list-style-type: none">• Type of business or sector• Occupation or position held | 2014 – present
Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta," Milan
Besta NeuroSim Center
Director |
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer<ul style="list-style-type: none">• Type of business or sector | 2005– present
Johns Hopkins School of Medicine
Department of Neurosurgery |
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer<ul style="list-style-type: none">• Type of business or sector• Occupation or position held | 2007– 2018
University of Milan
Medical School Residency Program in Neurosurgery
Adjunct Professor |

EDUCATION AND TRAINING

- | | |
|--|--|
| <ul style="list-style-type: none">• Dates (from – to)• Organization providing education and training• Principal subjects/occupational skills covered<ul style="list-style-type: none">• Title of qualification awarded | 2006
SDA Bocconi School of Management
Managerial Training in Health Care
IREF certificate |
|--|--|

- Dates (from – to) 1997-2000
- Organization providing education and training Johns Hopkins University School of Medicine, Baltimore MD – USA
 - Title of qualification awarded Surgical Neuro-Oncology Fellowship
- Dates (from – to) 1995
- Organization providing education and training Educational Commission For Foreign Medical Graduates (ECFMG)
 - Principal subjects/occupational skills covered Met the U.S. medical science examination requirement under the provision of public law 94-484. Passed step 2 (clinical science) and step 1 examination (basic medical science)
 - Title of qualification awarded United States Medical Licensing Examination (USMLE) administered by ECFMG
- Dates (from – to) 1988-1993
- Organization providing education and training Neurosurgery Residency, Institute of Neurosurgery, University of Milan Medical School
 - Title of qualification awarded Neurosurgery Board of Certification
 - Level in national classification 70/70
- Dates (from – to) 1988
- Organization providing education and training Medical School of the Italian Naval Academy
 - Principal subjects/occupational skills covered Courses and final exams on internal medicine, emergency surgery, tropical medicine, naval medicine, microbiology, clinical biochemistry
 - Title of qualification awarded Navy ship doctor
- Dates (from – to) 1988
- Organization providing education and training Medical School of the Italian Naval Academy
 - Principal subjects/occupational skills covered Hyperbaric Medicine
 - Title of qualification awarded Certification and Licensure in Hyperbaric Medicine
- Dates (from – to) 1982 – 1988
- Organization providing education and training University of Milan
 - Principal subjects/occupational skills covered Medical School
 - Title of qualification awarded Medical Degree (M.D.)
 - Level in national classification 110/110 cum laude
- Dates (from – to) 1981
- Organization providing education and training Liceo Classico F. Petrarca, Arezzo High School
 - Title of qualification awarded High School Diploma
 - Level in national classification 60/60

MOTHER TONGUE **ITALIAN**

OTHER LANGUAGES

- ENGLISH**
- Reading skills Excellent
- Writing skills Excellent
- Verbal skills Excellent

GRANTS

2017-present –H2020-SC1-2016-2017 Grant Agreement No. 755179. Project Partner. “A Clinical Phase IIB trial with ZOHOA in patients with newly-diagnosed malignant glioma” (CLINGLIO)

2013-2018 - Grant European Union Seventh Framework Programme FP7/2007-2013, Grant Agreement no. 602923. Project Coordinator and Principal Investigator. “Microbubble driven multimodal imaging and theranostics for gliomas” (TheraGlio)

2010-2013 - Tender on Stem Cells, Ministry of Health – Directorate General for Scientific and Technological Research. Principal Investigator. “Differentiation therapy in human glioblastoma cancer stem cells: a study conducive to phase I clinical trial with bone morphogenic proteins”

2008-2011 Role of Brain Mapping in the surgical treatment of low grade gliomas. Co-Principal Investigator. Oncologic Ordinary Project, Italian Ministry of Health

2006-2010 - Brain Tumor Funders' Collaborative (BTFC) co-investigator in cooperation with John Lattner, Charles Eberhart, Alex Olivi, Greg Riggins, Angelo Vescevi, Alfredo Quinones

2001-2003 - Grant Italian Ministry of Health (Ricerca Finalizzata) 2001-2003. Co-Investigator. "Terapie immunomodulanti ed antiangiogeniche con vettori virali e non virali per il trattamento dei glioblastomi" (Immunomodulatory and antiangiogenic therapies using viral and non-viral vectors for the treatment of glioblastomas)

1998-2000 - Grant from the Pediatric Brain Tumor Foundation of the U.S. 1998-2000. Co-investigator. Cytokine enhanced local immuno/chemotherapy of malignant brain tumors

AWARDS

2017 Honorary member of the Rotary Club

2005 – Brain Tumours UK foundation: 2005 Award for Translational Research Excellence, for the paper "Human, tumor-founding neural stem cells and tumor stem cell lines for the diagnosis and therapy of glioblastomas" presented at the 2nd Quadrennial Meeting of the World Federation of Neuro-Oncology

2001 – Istituto Nazionale Neurologico Award "Excellence in Neuro-oncology"

2000 – Harvey Cushing Award (Johns Hopkins School of Medicine) for the contribution to the advancement of neurological sciences

1996 – European Award: "1996 Beniamino Guidetti Prize" for the best scientific paper published in the Journal of Neurosurgical Sciences, 1997. Title: "Perspectives for the gene therapy of malignant gliomas by suicide gene transfer."

MEMBERSHIPS

2018-present - Member of the European Association of Neurosurgical Societies (EANS) Training Committee

2014-present – Member American Academy of Neurological Surgeons (AAcNS)

2011-present - Board of Neuro-oncology Section of the European Association of Neurosurgical Societies

2009-present - Co-chairman of the European subgroup of the Board of Directors of the Joint Section of the American neurosurgical Association AANS and CNS

2008-present - Member: Board (Executive Committee) Società Italiana di Neurochirurgia SINCH

2008-2011- Member: Neuro-oncology Committee of the European Association of Neurosurgical Societies

2005-present - Member: Congress of Neurological Surgeons (CNS)

2005-present - Member: Neuro-oncology Committee of the World Federation of Neurological Surgeons (WFNS)

2003-present - Member: Executive Board of the AANS/CNS Joint Section on Tumors

2001-present - Member: Società Italiana di Neurochirurgia

2000-present - Member: American Association of Neurological Surgeons (AANS)

1997-present - Member: Dandy Society of Neurological Surgeons

EDITORIAL BOARDS

2018-present – Associate editor – Youmans and Winn, *Neurological Surgery*
2015-present – Ad hoc reviewer – European Journal of Surgical Oncology
2014-present - Guest Editor - BioMed Research International
2014-present – Ad hoc reviewer – Neuro-Oncology
2014-present - Ad hoc reviewer - Molecular Cancer Therapeutics
2010-present - Ad hoc reviewer - World Neurosurgery
2010-present - Ad hoc reviewer – Neurosurgical Review
2010-present – Ad hoc reviewer – Cancer Reserch
2010-present - Ad hoc reviewer - Annals of Surgical Oncology
2009-present – Ad hoc reviewer – Current Stem Cell Research
2009-present - Ad hoc reviewer - Neurosurgical Review
2008-present - Editorial Board Member - J Neuro-oncology
2007-2008 - Ad hoc reviewer - J Neuro-oncology
2006-present - Ad hoc reviewer - Exp Rev Neurotherapeutics
2004-present - Ad hoc reviewer – Neurosurgery

MAJOR INTERESTS

Clinical interests: specialized in tumors of the Central Nervous System and skull base surgery.
Research areas include: 1) identifying and testing novel antitumor agents, including anti-angiogenic factors locally delivered by polymers or convection-enhanced delivery 2) combined use of different classes of anticancer drugs 3) Brain Tumor Stem Cells (tumor founding stem cells) 4) intraoperative imaging in brain tumor surgery 5) Neurosurgical simulation training 6) High Intensity Focussed Ultrasound (HIFU)

BIBLIOGRAPHY METRICS (SCOPUS)

h-index: 31
Citations: 8156

PEER REVIEWED PAPERS

1. Prada F, Kalani MYS, Yagmurlu K, Norat P, Del Bene M, **DiMeco F**, Kassell NF. Applications of Focused Ultrasound in Cerebrovascular Diseases and Brain Tumors. *Neurotherapeutics*. 2018 Nov 7. doi: 10.1007/s13311-018-00683-3. [Epub ahead of print] Review.PMID:30406382
2. Osti D, Del Bene M, Rappa G, Santos M, Matafora V, Richichi C, Faletti S, Beznoussenko GV, Mironov A, Bachi A, Fornasari L, Bongetta D, Gaetani P, **DiMeco F**, Lorico A, Pelicci G. Clinical Significance of Extracellular Vesicles in Plasma from Glioblastoma Patients. *Clin Cancer Res*. 2018 Oct 4. pii: clincanres.1941.2018. doi: 10.1158/1078-0432.CCR-18-1941. [Epub ahead of print]
3. Perin A, Galbiati TF, Gambatesa E, Ayadi R, Orena EF, Cuomo V, Riker NI, Falsitta LV, Schembari S, Rizzo S; European Neurosurgery Simulation Study Group (ENSSG), Luciano C, Cappabianca P, Meling TR, Schaller K, **DiMeco F**. Filling the gap between the OR and virtual simulation: a European study on a basic neurosurgical procedure. *Acta Neurochir (Wien)*. 2018 Oct 1. doi: 10.1007/s00701-018-3676-8. [Epub ahead of print]
4. Prada F, Del Bene M, Mauri G, Lamperti M, Vailati D, Richetta C, Saini M, Santuari D, Kalani MYS, **DiMeco F**. Dynamic assessment of venous anatomy and function in neurosurgery with real-time intraoperative multimodal ultrasound: technical note. *Neurosurg Focus*. 2018 Jul;45(1):E6. doi: 10.3171/2018.4.FOCUS18101.
5. Perin A, Galbiati TF, Casali C, Legnani FG, Mattei L, Prada FU, Saini M, Saladino A, Riker N, **DiMeco F**. Brain Tectal Tumors: A Flexible Approach. *Oper Neurosurg (Hagerstown)*. 2018 Jun 5. doi: 10.1093/ons/opy114. [Epub ahead of print]Pellegatta S, Eoli M, Cuccarini V, Anghileri E, Pollo B, Pessina S, Frigerio S, Servida M, Cuppini L, Antozzi C, Cuzzubbo S, Corbetta C, Paterra R, Acerbi F, Ferroli P, **DiMeco F**, Fariselli L, Parati EA, Bruzzone MG, Finocchiaro G. Survival gain in glioblastoma patients treated with dendritic cell immunotherapy is associated with increased NK but not CD8(+) T cell activation in the presence of adjuvant temozolomide. **Oncoimmunology**.

- 2018 Jan 29;7(4): e1412901. doi: 10.1080/2162402X.2017.1412901. eCollection 2018. PubMed PMID: 29632727; PubMed Central PMCID: PMC5889286.
6. Franzini A, Legnani F, Beretta E, Prada F, **DiMeco F**, Visintini S, Franzini A. Piezoelectric Surgery for Dorsal Spine: A technical note. **World Neurosurg**. 2018 Mar 9. pii: S1878-8750(18)30496-0. doi: 10.1016/j.wneu.2018.03.026. [Epub ahead of print] PubMed PMID: 29530686.
 7. Pellegatta S, Savoldo B, Di Ianni N, Corbetta C, Chen Y, Patané M, Sun C, Pollo B, Ferrone S, **DiMeco F**, Finocchiaro G, Dotti G. Constitutive and TNF α -inducible expression of chondroitin sulfate proteoglycan 4 in glioblastoma and neurospheres: Implications for CAR-T cell therapy. **Sci Transl Med**. 2018 Feb 28;10(430). pii: eaao2731. doi: 10.1126/scitranslmed.aao2731. Erratum in: *Sci Transl Med*. 2018 Apr 4;10(435): PubMed PMID: 29491184.
 8. Perin A, Messina G, **Dimeco F**, Franzini A. Conservative treatment for bilateral subdural hematomas: do patch and hold on. **J Neurosurg Sci**. 2018 Feb 23. doi: 10.23736/S0390-5616.18.04332-1. [Epub ahead of print] PubMed PMID: 29480688.
 9. Stupp R; Taillibert S; Kanner A; Read W; Steinberg DM; Lhermitte B; Toms S; Idbaih A; Ahluwalia MS; Fink K; **DiMeco F**; Lieberman F; Zhu J-J; Stragliotto G; Tran DD; Brem S; Hottinger AF; Kirson ED; Lavy-Shahaf G; Weinberg U; Kim C-Y; Paek S-H; Nicholas G; Burna, J; Hirte, H; Weller M; Palti Y; Hegi ME; Ram Z Effect of tumor-treating fields plus maintenance temozolomide vs maintenance temozolomide alone on survival in patients with glioblastoma a randomized clinical trial. **JAMA**. 2017; 318(23):2306-2316.
 10. Mattei L, Prada F, Marchetti M, Gaviani P, **DiMeco F** Differentiating brain radionecrosis from tumour recurrence: a role for contrast-enhanced ultrasound? **Acta Neurochir (Wien)**. 2017 Dec;159(12):2405-2408.
 11. Perin A, Prada FU, Moraldo M, Schiappacasse A, Galbiati TF, Gambatesa E, d'Orio P, Riker NI, Basso C, Santoro M, Meling TR, Schaller K, **DiMeco F** Usim: A new device and App for Case-Specific, Intraoperative Ultrasound Simulation and Rehearsal in Neurosurgery. A Preliminary Study. **Oper Neurosurg**. (Hagerstown). 2017 Jun 29. doi: 10.1093/opx14.
 12. Giammattei L, Messerer M, Prada F, **DiMeco F**. Intramedullary cavernoma: A surgical resection technique. *Neurochirurgie*. 2017 Nov;63(5):426-429. doi: 10.1016/j.neuchi.2016.04.005. Epub 2016 Sep 8. PubMed PMID: 27615154.
 13. Perin A, Prada FU, Moraldo M, Schiappacasse A, Galbiati TF, Gambatesa E, d'Orio P, Riker NI, Basso C, Santoro M, Meling TR, Schaller K, **DiMeco F**. USim: a New Device and Application for Case-specific, Intraoperative Ultrasound Simulation and Rehearsal in Neurosurgery. A preliminary study. **Oper Neurosurg** 2017 Jun 29. doi: 10.1093/ons/opx144. [Epub ahead of print]
 14. Prada F, Vitale V, Del Bene M, Boffano C, Sconfienza LM, Pinzi V, Mauri G, Solbiati L, Sakas G, Kolev V, D'Incerti L, **DiMeco F**. Contrast-enhanced MR Imaging versus Contrast-enhanced US: A Comparison in Glioblastoma Surgery by Using Intraoperative Fusion Imaging. **Radiology**. 2017 May 29:161206.
 15. Prada F, Del Bene M, Faragò G, **DiMeco F**. Spinal Dural Arteriovenous Fistula: Is There a Role for Intraoperative Contrast-Enhanced Ultrasound? **World Neurosurg**. 2017 Apr; 100:712.e15-712.e18.
 16. Rigamonti A, Imbesi F, Silvani A, Grimod G, Prone V, Gaviani P, Ardizzoia A, Milanese I, Arienti V, Agostoni E, **Di Meco F**, Salmaggi A. Pattern of care and outcome in elderly patients with glioblastoma: Data in 151 patients from 3 Lombardia Hospitals. *J Neurol Sci*. 2017 Jul 15;378: 3-8. doi: 10.1016/j.jns.2017.04.030. Epub 2017 Apr 18.
 17. Richichi C, Fornasari L, Melloni GEM, Brescia P, Patané M, Del Bene M, Mustafa DAM, Kros JM, Pollo B, Pruneri G, Sciandivasci A, Munzone E, **DiMeco F**, Pelicci PG, Riva L, Pelicci G Mutations targeting the coagulation pathway are enriched in brain metastases. **Sci Rep**. 2017 Jul 26;7(1):6573. doi: 10.1038/s41598-017-06811-x
 18. Fariselli L, Cuppini L, Gaviani P, Marchetti M, Pinzi V, Milanese I, Simonetti G, Tramacere I, **DiMeco F**, Salmaggi A, Silvani A. Short course radiotherapy concomitant with temozolomide in GBM patients: a phase II study. **Tumori**. 2017 Sep 18;103(5):457-463. doi: 10.5301/tj.5000672. Epub 2017 Jul 8.
 19. Au K, Ram Z, Zadeh G, Aldape K, Balogun J, Barani I, **DiMeco F**, Goel A, Khu K, Lang FF, Lund-Johansen M, Maldaun M, Tabatabai G, Tonn JC, Westphal M. Proceedings of the WFNS Neuro-Oncology Committee Workshop Rome 2015. **Surg Neurol Int**. 2016 Dec 12;7(Suppl 40):S963-S975. doi: 10.4103/2152-7806.195563.
 20. Cordella R, Nava S, Prada F, Agnoletti A, Legnani F, **Di Meco F**. Ultrasound guided mini-invasive tailored approach and intraoperative neurophysiological monitoring: a synergistic strategy for the removal of tumors near the motor cortex. A preliminary experience. *J Neurosurg Sci*. 2018 Jun;62(3):255-264. doi: 10.23736/S0390-5616.16.03565-7. Epub 2016 Mar 11. PubMed PMID: 26967717.
 21. Saladino A, Lamperti M, Mangraviti A, Legnani FG, Prada FU, Casali C, Caputi L, Borrelli P, **DiMeco F**. The semisitting position: analysis of the risks and surgical outcomes in a contemporary series of 425 adult patients undergoing cranial surgery. **J Neurosurg**. 2016 Dec 16:1-10.
 22. Mattei L, Prada F, Legnani FG, Perin A, Olivi A, **DiMeco F**. Neurosurgical tools to extend tumor resection in hemispheric low-grade gliomas: conventional and contrast enhanced ultrasonography.

- Childs Nerv Syst.** 2016 Oct;32(10):1907-14.
23. 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. **Surg Neurol Int.** 2016 Sep 13;7:82.
 24. Richichi C, Osti D, Del Bene M, Fornasari L, Patanè M, Pollo B, **DiMeco F**, Pelicci G. Tumor-initiating cell frequency is relevant for glioblastoma aggressiveness. **Oncotarget.** 2016 Nov 1;7(44):71491-71503.
 25. Del Bene M, Prada F, D'Amico D, **DiMeco F**. Chronic dorsal subdural haematoma: single aetiology for CNS superficial siderosis and myelopathy. **Acta Neurochir (Wien).** 2016 Jun;158(6):1129-31.
 26. Cordella R, Nava S, Prada F, Agnoletti A, Legnani F, **DiMeco F**. Ultrasound guided mini-invasive tailored approach and intraoperative neurophysiological monitoring. A synergistic strategy for the removal of tumours near the motor cortex. A preliminary experience. **J Neurosurg Sci.** 2016 Mar 11.
 27. Prada F, Bene MD, Fornaro R, Vetrano IG, Martegani A, Aiani L, Sconfienza LM, Mauri G, Solbiati L, Pollo B, **DiMeco F**. Identification of residual tumor with intraoperative contrast-enhanced ultrasound during glioblastoma resection. **Neurosurg Focus.** 2016 Mar;40(3):E7.
 28. Aggravi M, De Momi E, **DiMeco F**, Cardinale F, Casaceli G, Riva M, Ferrigno G, Prattichizzo D. Hand-tool-tissue interaction forces in neurosurgery for haptic rendering. **Med Biol Eng Comput.** 2015 Dec 31.
 29. Marchetti M, Bianchi S, Pinzi V, Tramacere I, Fumagalli ML, Milanese IM, Ferroli P, Franzini A, Saini M, **DiMeco F**, Fariselli L. Multisession Radiosurgery for Sellar and Parasellar Benign Meningiomas: Long-term Tumor Growth Control and Visual Outcome. **Neurosurgery.** 2015 Oct 21.
 30. Vetrano IG, Prada F, Nataloni IF, Bene MD, **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. **Neurosurg Focus.** 2015 Aug;39(2):E17.
 31. Perin A, **DiMeco F**. Health Literacy and Pseudoliteracy in Neurosurgery: the "C. Besta" Experience. **World Neurosurg.** 2015 Jul 26.
 32. Prada F, Bene MD, Casali C, Saladino A, Legnani FG, Perin A, Moiraghi A, Richetta C, Rampini A, Mattei L, Vetrano IG, Fornaro R, Saini M, Martegani A, **DiMeco F**. Intraoperative Navigated Angiosonography for Skull Base Tumor Surgery. **World Neurosurg.** 2015 Jul 17.
 33. Prada F, Del Bene M, Moiraghi A, Casali C, Legnani FG, Saladino A, Perin A, Vetrano IG, Mattei L, Richetta C, Saini M, **DiMeco F**. From Grey Scale B-Mode to Elastosonography: Multimodal Ultrasound Imaging in Meningioma Surgery-Pictorial Essay and Literature Review. **Biomed Res Int.** 2015;2015:925729.
 34. Vetrano IG, Prada F, Erbetta A, **DiMeco F**. Intraoperative Ultrasound and Contrast-Enhanced Ultrasound (CEUS) Features in a Case of Intradural Extramedullary Dorsal Schwannoma Mimicking an Intramedullary Lesion. **Ultraschall Med.** 2015 Aug;36(4):307-10.
 35. Brat DJ, Verhaak GW, Aldape KD, Alfred Yung WK, Salama SR, Cooper LAD, Rheinbay A, **DiMeco F**, et al. Comprehensive, Integrative Genomic Analysis of Diffuse Lower-Grade Gliomas. The Cancer Genome Atlas Network. **N Engl J Med.** 2015 Jun; 372:2481-98.
 36. Prada F, Del Bene M, Saini M, Ferroli P, **DiMeco F**. Intraoperative cerebral angiosonography with ultrasound contrast agents: how I do it. **Acta Neurochir (Wien).** 2015 Jun;157(6):1025-9.
 37. Pinzi V, Orsi C, Marchetti M, Milanese IM, Bianchi LC, **DiMeco F**, Cuccarini V, Farinotti M, Ferroli P, Finocchiaro G, Franzini A, Fumagalli M, Silvani A, Fariselli L. Radiosurgery reirradiation for high-grade glioma recurrence: a retrospective analysis. **Neurol Sci.** 2015 Aug;36(8):1431-40.
 38. Mangraviti A, Tzeng SY, Kozielski KL, Wang Y, Jin Y, Gullotti D, Pedone M, Buaron N, Liu A, Wilson DR, Hansen SK, Rodriguez FJ, Gao GD, **DiMeco F**, Brem H, Olivi A, Tyler B, Green JJ. Polymeric nanoparticles for nonviral gene therapy extend brain tumor survival in vivo. **ACS Nano.** 2015 Feb 24;9(2):1236-49.
 39. Tyler B, **DiMeco F**, Grossman R, Pradilla G. Current and future novel treatments for glioblastoma multiforme. **Biomed Res Int.** 2014;2014:432195.
 40. Prada F, **DiMeco F** et al. Pre-operative magnetic resonance and intra-operative ultrasound fusion imaging for real-time neuronavigation in brain tumor surgery. **European Journal of Ultrasound.** 2014 Nov.
 41. Prada F, Del Bene M, Mattei L, Casali C, Filippini A, Legnani F, Mangraviti A, Saladino A, Perin A, Richetta C, Vetrano I, Moiraghi A, Saini M, **DiMeco F**. Fusion imaging for intra-operative ultrasound-based navigation 3 in neurosurgery. **J Ultrasound.** 2014 Sept; 17(3), 243-251.
 42. Prada F, Mattei L, Del Bene M, Aiani L, Saini M, Casali C, Filippini A, Legnani FG, Perin A, Saladino A, Vetrano IG, Solbiati L, Martegani A, **DiMeco F**. Intraoperative Cerebral Glioma Characterization with Contrast Enhanced Ultrasound. **Neurosurgery.** 2014 Aug; 61 Suppl. 1: 227.
 43. Prada F, Vetrano IGG, Filippini A, Del Bene M, Perin A, Casali C, Legnani F, Richetta C, Moiraghi A, Saini M, **DiMeco F**. Intraoperative ultrasound in spinal tumor surgery. **J Ultrasound.** 2014 Sept; 17(3), 195-202.
 44. Prada F, Perin A, Martegani A, Aiani L, Solbiati L, Lamperti M, Casali C, Legnani F, Mattei L, Saladino A, Saini M, **DiMeco F**. Intraoperative contrast-enhanced ultrasound for brain tumor

- surgery. **Neurosurgery**. 2014 May;74(5):542-52; discussion 552.
45. Nava F, Tramacere I, Fittipaldo A, Bruzzone MG, **DiMeco F**, Fariselli L, Finocchiaro G, Pollo B, Salmaggi A, Silvani A, Farinotti M, Filippini G. Survival effect of first- and second-line treatments for patients with primary glioblastoma: a cohort study from a prospective registry, 1997-2010. **Neuro Oncol**. 2014 May;16(5):719-27.
 46. Legnani FG, Saladino A, Casali C, Vetrano IG, Varisco M, Mattei L, Prada F, Perin A, Mangraviti A, Solero CL, **DiMeco F**. Craniotomy vs. craniectomy for posterior fossa tumors: a prospective study to evaluate complications after surgery. **Acta Neurochir (Wien)**. 2013 Dec;155(12):2281-6.
 47. Binder ZA, Siu IM, Eberhart CG, Ap Rhys C, Bai RY, Staedtke V, Zhang H, Smoll NR, Piantadosi S, Piccirillo SG, **DiMeco F**, Weingart JD, Vescovi A, Olivi A, Riggins GJ, Gallia GL. Podocalyxin-like protein is expressed in glioblastoma multiforme stem-like cells and is associated with poor outcome. **PLoS One**. 2013 Oct 16;8(10):e75945.
 48. Mangraviti A, Casali C, Cordella R, Legnani FG, Mattei L, Prada F, Saladino A, Perin A, **DiMeco F**. Practical assessment of preoperative functional mapping techniques: navigated transcranial magnetic stimulation and functional magnetic resonance imaging. **Neurol Sci**. 2013 Sep;34(9):1551-7.
 49. Salmaggi A, Simonetti G, Trevisan E, Beecher D, Carapella CM, **DiMeco F**, Conti L, Pace A, Filippini G. Perioperative thromboprophylaxis in patients with craniotomy for brain tumours: a systematic review. **J Neurooncol**. 2013 Jun;113(2):293-303 IF 3.115
 50. Mangraviti A, Casali C, Cordella R, Legnani FG, Mattei L, Prada F, Saladino A, Contarino VE, Perin A, **DiMeco F**. Erratum to: Practical assessment of preoperative functional mapping techniques: navigated transcranial magnetic stimulation and functional magnetic resonance imaging. **Neurol Sci**. 2013 May 1. [Epub ahead of print] IF 1.412
 51. Munzone E, Casali C, Aurilio G, Botteri E, Perin A, Pelicci G, Brescia P, Sciandivasci A, Adamoli L, Viale G, **DiMeco F**. Outcome and clinico-biological characteristics of advanced breast cancer patients with surgically resected brain metastases: a multidisciplinary approach. **Ecancermedicalsecience**. 2013 Apr 18;7:309 IF 0
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BOOK CHAPTERS

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2. Del Bene M, **Di Meco F**, Prada F (2016). Contrast-Enhanced Ultrasound (CEUS) in Neurosurgery. In: (a cura di): F. Prada; L. Solbiati; A. Martegani; F. DiMeco, Intraoperative Ultrasound (IOUS) in Neurosurgery: from Standard B-mode to Elastasonography.. p. 159-169, Springer, ISBN: 9783319252667, doi: 10.1007/978-3-319-25268-1_13
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 13. S. Benedetti, **F. DiMeco**, N. Cirenei, M.G. Bruzzone, B. Pollo, N. Florio, L. Caposio, M.P. Colombo, E. Cattaneo, and G. Finocchiaro. IL-4 gene transfer for the treatment of experimental gliomas. In: **Gene Therapy of Cancer**, Walden ed., Plenum Press, New York: 315-321, 1998.
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1. C.L. Solero, G. Cantu', G. Lasio, F. Mattavelli, F. Salvatori, L. Valentini, S.V. isintini, **F. DiMeco** Esperienza su 105 casi di tumori craniofacciali trattati con approccio chirurgico combinato. [Experience with 105 cases of craniofacial tumors operated using a combined surgical approach] **Neuroradiologia**, G. Pero Eds., Del centauro, Milano, 99-102, 1994
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 4. C.L. Solero, C. Cimino, G. Lasio, E. Ciceri, **F. DiMeco**. L'utilizzo dell'angiografo digitale portatile nel trattamento chirurgico delle fistole artero-venose durali spinali. [Role of intraoperative angiography in the treatment of dural arterio-venous fistulas] **Neuroradiologia**, G. Pero Eds., Del Centauro, Milano, 335-337, 1994

**ORIGINAL
REPORTS (NON
PEER
REVIEWED)**

**SELECTION OF
INVITED
LECTURES AND
PRESENTATIONS**

1. **F. DiMeco**. "Imaging intraoperatorio: la bella e la bestia." Neuro-oncologia chirurgica 2.0. March 15-16, 2018 in Messina, Italy
2. **F. DiMeco**. "A High-Tech Playground for the Next Generation Neurosurgeons: Real-time Intraoperative Imaging, Virtual Reality, Simulation and New Paradigms of Training in Neurosurgery." Johns Hopkins University School of Medicine – March 22, 2018 Baltimore MD – USA.
3. **F. DiMeco**. "Intraoperative real time navigation and new tracers technology for brain gliomas" at the 29th International Congress of the Society for Medical Innovation and Technology - November 9-10, 2017 in Turin, Italy.
4. **F. DiMeco**. "Use of Ultrasound in Neurocranial Surgery" at the Third Annual Selected Topics in Craniomaxillofacial Surgery - November 4-5, 2017 in Boston, USA.
5. **F. DiMeco**. "Using Ultrasound in neurosurgical oncology;" "Is there a role for simulation?" "Ultrasound guided surgery Neurosurgical training: from virtual reality to simulation" at the European Association of Neurosurgical Societies (EANS) Congress - October 1-5, 2017 in Venice, Italy.
6. **F. DiMeco**. "Intraoperative fluorescence technologies: current status and outlook" at the 66th National Congress of the Società Italiana di Neurochirurgia (SiNch) - June 21-23, 2017 in Verona,

- Italy.
7. **F. DiMeco.** "New Teaching Perspectives" at the 20 Years of Endoscopic Endonasal Surgery. History, ideas and friends on the Gulf of Naples - May 26th, 2017 in Naples, Italy.
 8. **F. DiMeco.** "Realtà virtuale e apprendimento chirurgico- Virtual reality and surgical comprehension" at Fundamenta Neurochirurgica III, Processi formativi in Neurochirurgia- Training in Neurosurgery - January 21, 2017 in Modena, Italy.
 9. **F. DiMeco.** "Introduction to Simulation" at the European Association of Neurosurgical Societies (EANS) Training Course - January 1-5, 2017 in Vilnius, Lithuania
 10. **F. DiMeco.** "Intraoperative 3D Ultrasound guidance and neurosurgical simulation" at the Department of Neurosurgery, University of Geneva Medical Centre, HUG - November 29-30, 2016, in Geneva, Switzerland.
 11. **F. DiMeco.** "Come ottimizzare la radicalità chirurgica" at the XX Congresso Nazionale e Corso residenziale dell'Associazione Italiana di Neuro-Oncologia - November 6-8, 2016 in Naples, Italy.
 12. **F. DiMeco.** "The transcranial perspective" at the Endoscopic Endonasal & Transcranial skull base approaches Hands-on Course: 16th International workshop - November 3-4, 2016 in Naples, Italy.
 13. **F. DiMeco.** "Contrast-enhanced MRI versus Contrast-enhanced ultrasound: a comparison in glioblastoma surgery using intraoperative fusion imaging;" "Chronic dorsal subdural haematoma: single aetiology for CNS superficial siderosis and myelopathy;" "From grey scale B-mode to elastosonography: multimodal ultrasound imaging in glioma surgery" at the 65th Congress Nazionale della Society Italiana Neurochirurgia - October 19-21, 2016 in Rome, Italy.
 14. **F. DiMeco.** "Part 2: MISCELLANEOUS COMPLICATIONS Educational Day: Neurological complications of cancer". Session Chair at 12th Meeting of the European Association of Neurooncology (EANO) – October 13-16, 2016 in Heidelberg, Germany.
 15. **F. DiMeco.** "3D and Real time ultrasound guided resection" at the Carolyn Frye-Halloran Symposium - October 6th, 2016 in Boston, USA.
 16. **F. DiMeco.** "Intraoperative Ultrasound" at the Tumor Selection Satellite Symposium and CNS Annual Meeting, Tumor and Board Joint Section – September 23 – 28, 2016
 17. **F. DiMeco.** "Ultrasound-based real-time image-guided surgery for brain tumours: Development, potentials, and learning objectives of an operator dependent procedure" at the European Association of Neurosurgical Societies (EANS) Congress - September 4-8, 2016 in Athens, Greece.
 18. **F. DiMeco.** "Future smart surgical approaches for brain metastases" at the Future Horizons in Lung Cancer, Royal Society of Medicine - September 1-2, 2016 in London, UK.
 19. **F. DiMeco.** "Education in Neurosurgery: The Besta NeuroSim Center" at the V corso-covnegno di neuro-chirurgia Focus on: Neuro-oncologia, neurochirurgia funzionale, neurochirurgia spinale - July 6-6, 2016 in Sirolo, Italy.
 20. **F. DiMeco.** "Latest trends in intraoperative imaging: from US and contrast enhanced US (iCEUS) to augmented reality and surgical simulation" at the 41st Annual William S. Keith Professorship in Neurosurgery - June 6th, 2016 in Toronto, Canada.
 21. **F. DiMeco.** "Latest trends in intraoperative imaging from ultrasound and contrast-enhanced ultrasound to virtual reality and simulation" at the Attività Formative Scuola di Specializzazione in Neurochirurgia meeting - May 26th, 2016 in Catania, Italy.
 22. **F. DiMeco.** "Chirurgia" at the Neurinomi & Neurinomi Theoretical and Practical Skills in Skull Base Tumors - April 22nd, 2016 in Bergamo, Italy.
 23. **F. DiMeco.** "Intracerebral lesions. IGS: when, how and why?" at the L'uso Dei sistemi di image guidance in Neurochirurgia. See what you do, know where you are, plan where you go! - April, 15th, 2016 in Naples, Italy.
 24. **F. DiMeco.** "Nuovi paradigmi chirurgici" at the Le nuove tecnologie in Sala operatoria al servizio della neurochirurgia Convention - April 6th, 2016 in Varese, Italy.
 25. **F. DiMeco.** "B-Mode e CEUS (contrast-enhanced ultrasound) come strumenti real-time per la resezione dei tumori guidata da immagini" at the B-Mode seminario presso l'università degli studi di Verona - March, 2nd, 2016 in Verona, Italy.
 26. **F. DiMeco.** "Simulation in Neurosurgical oncology" at the European Association of Neurosurgical Societies (EANS) Training Course - February 7-10, 2016 in Sofia Bulgaria.
 27. **F. DiMeco.** "3D and Real-Time Ultrasound guiding surgical resection" and "Use of Intraoperative Imaging Strategies to Improve Extent of Resection" Chair at Society for Neuro-Oncology Meeting (SNO) – November 20, 2015 in San Antonio, Texas, USA.
 28. **F. DiMeco.** "PRESENTAZIONE DI HUMANITAS NEUROCENTER" (Presentation of the Humanitas Neurocenter) – Tumori Della Regione Ipotalamo-Ipofisaria Regione (Tumors of the Hypothalamic-Pituitary Region) at Istituto Clinico Humanitas – November 13-14, 2015 in Rozzano, Italy.
 29. **F. DiMeco.** "B-mode and contrast-enhanced ultrasound (iCEUS): an essential tool for a *bona fide* real-time, image-guided brain tumor resection" – EANS 2015 Annual Meeting – October 18-21, 2015 in Madrid.
 30. **F. DiMeco.** "Intraoperative Contrast Enhanced Ultrasound (CEUS) in Brain Tumor Surgery." The Brain and Gliomas when the Connections are Crucial meeting – September 24-25, 2015 in Brescia, Italy.

31. **F. DiMeco.** "Intra-operative cerebral angio-sonography with ultrasound contrast agents", "Intra-operative navigated angio-sonography for skull base tumor surgery", "Intradural intramedullary or extramedullary? Intraoperative ultrasound and contrast-enhanced ultrasound (CEUS) findings in a case of thoracic schwannoma" Posters, "MAIN SESSION, NEURO-ONCOLOGY" Chair, and "Plenary Session" Chair at 15th Interim Meeting of the World Federation of Neurological Societies (WFNS) – September 8-12, 2015 in Rome.
32. **F. DiMeco.** National Neurosurgery Convention. "State of the art and new therapeutic perspectives in Glioblastoma". Novara, Italy, May 19, 2015. (Moderator)
33. **F. DiMeco.** "Dalla terapia standard ai nuovi sviluppi tecnologici: quale il vantaggio oncologico?" at National Academy of Medicine's Corso Nazionale Teorico-pratico "Stages in Neuro-oncologia" – April 15, 2015 in Turin, Italy.
34. **F. DiMeco.** "Intracranial meningiomas and venous structures" Discussant and "TMS Brain Mapping, Monitoring and Neurophysiological Intraoperative Ultrasound Imaging" Round Table at "Complicanze nella chirurgia dei tumori intracranici e spinali" (Complications in Surgery of Cancer and Spinal Intracranial) – February 26-27, 2015 in Taormina (Messina), Italy.
35. **F. DiMeco.** Dall'apprendistato alla simulazione: nuovi paradigmi formativi per il (neuro)chirurgo del terzo millennio e l'esempio del Besta Neurosim Center. "Verso la città della salute, la formazione del medico del futuro" – January 26, 2015 in Milan, Italy.
36. **F. DiMeco.** "The use of enhanced ultrasound in intra-operative LGG detection." Future Concepts and Strategies for Gloma Surgery – December 12-13, 2014 in Adelboden, Switzerland.
37. **F. DiMeco.** Scientific Committee. 9° Forum Risk Management in Sanità – November 25-28, 2014 in Arezzo, Italy
38. **F. DiMeco.** "Intraoperative Cerebral Glioma Characterization with Contrast Enhanced Ultra-Sound (CEUS)." 2014 Congress of Neurological Surgeons (CNS) Annual Meeting – October 18-22, 2014 in Boston, USA.
39. **F. DiMeco.** "The Potential of Intraoperative Ultrasound", "Strategies for Meningiomas Involving the Sagittal Sinus", "Management of Meningiomas Invading the Superior Sagittal Sinus" and Chair at 15th European Congress of Neurosurgery – EANS 2014 – October 12-17, 2014 in Prague.
40. **F. DiMeco.** "Part 2: MISCELLANEOUS COMPLICATIONS Educational Day: Neurological complications of cancer". Session Chair at 11th Meeting of the European Association of Neurooncology (EANO) – October 9-12, 2014 in Turin, Italy.
41. **F. DiMeco.** Co-Director of 13th Annual International Neuro-oncology Updates and presentation "Intraoperative Ultrasound" – September 4-5, 2014 in Boston, USA
42. **F. DiMeco.** "Ultrasound and contrast enhanced ultrasound guided resection of brain tumors" at The Mount Sinai Medical Center's Neurosurgery Grand Rounds - September 3rd, 2014 in New York, NY
43. **F. DiMeco.** "The Neurosurgical Simulator Immersive-Touch" and "Intraoperative High-Frequency Ultrasound-Guided Surgery" at Neuro-oncology Meeting – July 3-4, 2014 in Naples, Italy
44. **F. DiMeco** Moderator: "Management of Tissue (Sealing) and CSF Leaks in Neurosurgery" at Neurosurgery Advisory Board meeting – June 27, 2014 in Zurich, Switzerland
45. **F. DiMeco.** "Intraoperative Contrast Enhanced Ultra-sound (CEUS) for Brain Tumor Surgery" at Advances in Biology and Treatment of Malignant Brain Gliomas International Congress, 2nd Edition – June 12-13, 2014 in Rome, Italy
46. **F. DiMeco.** "Passato, Presente, e futuro della neurochirurgia del Besta" and "Nuove frontiere tecnologiche in neurochirurgia" – May 12-14, 2014 in Milan, Italy
47. **F. DiMeco.** "Risultati dello Studio SIGMA" at Il Glioblastoma Aggiornamenti Sulle Nuove Terapie – April 15, 2014 in Milan, Italy
48. **F. DiMeco.** "Nuove prospettive per materiali e sistemi di sigillo" and "Prevenzione e trattamento della fistola liquorale nella chirurgia sottotensoriale" at Update in Neurochirurgia meeting – March 21, 2014 in Rome, Italy
49. **F. DiMeco.** "Le Procedure di Urgenza Craniche: nella Chirurgia Tumorale" at Le Procedure Neurochirurgiche di Urgenza in Chirurgia Cranica e Spinale – March 7, 2014 in Bologna, Italy
50. **F. DiMeco** Lecture "Volume di attività e valutazione di esito in neurochirurgia" at 8° Forum Risk Management in Sanità 2013 – November 26-29, 2013 in Arezzo, Italy
51. **F. DiMeco** Appointed Scientific Committee Member and lecturer at EANS Annual Meeting 2013 due in Tel Aviv November 11th/14th 2013
52. **F. DiMeco** Moderator at 62° Congresso Nazionale SINch – October 10-12, 2013 in Palermo, Italy
53. **F. DiMeco** "Skullbase & neurovascular workshop" at The European Association of Neurological Societies First EANS Training Course in Neurosurgery – December 7-10, 2013 in Dubai, UAE
54. **F. DiMeco** Provisional Faculty and Moderator: "Malignant Tumors" at Updates in Geriatric Neurosurgery: 1st International Congress – October 5-7, 2013 in Castagneto Carducci, Italy
55. **F. DiMeco** 15th WFNS World Congress of Neurosurgery – September 8-13, 2013 in Seoul, Korea
56. **F. DiMeco** Speaker at Swiss Italian Neuro Oncology Meeting 2013 – September 5-7, 2013 in Lugano, Switzerland
57. **F. DiMeco** "Panel Discussion and Conclusions" speaker and organizer at "Brain mapping in surgery" Symposium – July 3, 2013 in Milan, Italy

58. **F. DiMeco.** "Treatments 1: Advances in Neurosurgery" at Accademia Nazionale di Medicina Glioblastoma 2013 Meeting – June 21, 2013 in Milan, Italy
59. **F. DiMeco** "Clinical Experiences in Neurosurgery" at Johnson & Johnson Medical "Flowable Experience" Meeting – June 19, 2013 in Copenhagen, Denmark
60. **F. DiMeco** 81st AANS Annual Scientific Meeting - April 27-May 1 2013 in New Orleans, USA.
61. **F. DiMeco** The recurrent gliomas : The role of re-resection, re-irradiation and salvage therapies; Brain tumor stem cell hypothesis and differentiation therapies; The recurrent gliomas: The role of re-resection, re-irradiation and salvage therapies. International Basic Course on Neurosurgery, Term I – Course II - March 15 -19, 2013 (Lecturer) in Antalya, Turkey.
62. **F. DiMeco** Lecture: Organizational models in neurosurgery aiming to integrate research and clinical practice in the treatment of brain tumors: the approach of Johns Hopkins University and Fondazione IRCCS Istituto Neurologico C. Besta - Accademia di Lettere Scienze e Arti " Francesco Petrarca" - January 25th 2013 (Invited Speaker) in Arezzo, Italy.
63. **F. DiMeco** "Safety and Simulation in the Operating Room" at the Comlas 11th National Congress - October 6th 2012 in Siena, Italy.
64. **F. DiMeco** AuditDay 2012 Centro Cardiologico. Monzino: Specialist Clinical Audit - Records in Neurosurgery - June 19th 2012 in Milan, Italy.
65. **F. DiMeco** "Flight and health service safety: analogies and opportunities" at the 12th AIC National Congress - April 19th 2012 in L'Aquila, Italy.
66. **F. DiMeco** "Updates on Stem Cells" at the Stages in Neuro-Oncologia 8th Hands-On Course - April 12th 2012 in Turin, Italy.
67. **F. DiMeco** Bipolar Coagulation and Cutting. Wetlab Sessions - March 6th 2012 in Rotterdam, Netherlands.
68. **F. DiMeco** Molecular Biology of Brain Tumors - Eans training Course - February 26th 2012 in Pecs, Hungary.
69. **F. DiMeco** Surgical strategy for malignant secondary tumours in elderly people - Neuro-oncological problems in elderly patients. December 2nd 2011 in Milan, Italy.
70. **F. DiMeco** "Human factor and simulation: a practical example" at the Forum Risk Management November 22 -28 2011 in Arezzo, Italy.
71. **F. DiMeco** "Significance of hospital activity volumes on the outcome of brain tumour surgery in Italy" at the Breakfast meeting: Medulloblastoma. XVI AINO national Congress -November 3rd – 5th 2011 (Invited Speaker and Moderator) in Milan, Italy.
72. **F. DiMeco** "Rescue radiosurgery in high grade gliomas. Role of non-technical skills in improving safety in the operating room, an insight from the world of aeronautics. Single and multiple session radio-surgery in the treatment of cavernous sinus gliomas. A mono-institutional experience" at the 60th SiNch national congress - June 5–7 2011 in Florence, Italy.
73. **F. DiMeco** Medical and surgical therapy in brain gliomas - Surgical techniques and complications - May 24th 2011 (Invited Speaker) in Varese, Italy.
74. **F. DiMeco** Management of high grade gliomas in elderly people – the patient with high neurosurgical risk – Surgical risk in neuro-oncology - January 29th 2011 Refresher Course (Invited Speaker and Moderator) in Milan, Italy.
75. **F. DiMeco** 59th SiNch National Congress – Joint meeting with NSI Neurological Society of India. Brain Metastasis: 1) does aggressive treatment with surgery or stereotactic radiosurgery (SRS) improve survival or quality of life? 2) should whole brain radiotherapy (WBRT) follow surgery or SRS? 3) surgery or SRS? Literature review and critical considerations. Intracranial, extramedullary spinal lesions. Six-years experience with radiosurgery in one single centre. October 27 - 30, 2010. (Invited Speaker and Moderator) in Milan, Italy.
76. **F. DiMeco** Clinical and translational research of Fondazione IRCCS Istituto Neurologico C. Besta: Status and Perspectives – Organizational models in neurosurgery aiming to integrate research activity and clinical practice - October 8–9, 2010 in Milan, Italy.
77. **F. DiMeco** EANS TRAINING COURSE, TUMOUR - Molecular Biology of Brain Tumours - Recent experimental protocols in gliomas - September 26 -30 , 2010 in Halkidiki, Greece.
78. **F. DiMeco** FOCUS Updates in Neurosurgery - GMB Cancer Stem Cells: Quali Prospettive. (Invited Speaker) Policlinico di Milano June, 17th, 2010 (Invited Speaker)
79. **F. DiMeco** 2010 AANS Annual Meeting. 115 Malignant Brain Tumors: State of The Art Treatment. May 1-5, 2010 (Panelist) in Philadelphia, USA.
80. **F. DiMeco** Meet the Professor Seminar - Brain Metastases in patients with solid tumors: a direct therapeutic effect or an illusion due to patient selection? IEO Milano April 21st, 2010 (Invited Speaker) in Milan, Italy.
81. **F. DiMeco** 2nd Meeting on Neurosurgical Tips and tricks. Looking into the Future: the stem cell story as the other approach to malignant glioma radical treatment. April 15-17 2010 (Invited Speaker) in Taormina, Italy.
82. **F. DiMeco** FOCUS Updates in Neurosurgery. Surgical management of parasagittal meningiomas invading the sinus. Policlinico di Milano April 8th, 2010 (Invited Speaker) in Milan, Italy.
83. **F. DiMeco** Stages in Neuro-Oncologia VI National Course. Update on Stem Cells. February 25-27, 2010 (Invited Speaker) in Turin, Italy.

84. **F. DiMeco** Neurooncologia 2010: State of the art and future perspectives. Loco-regional therapy with carmustine: pro. February 13th, 2010 (Invited Speaker) in Milan, Italy.
85. **F. DiMeco** 58th National SINch Congress - Entities of Posterior Fossa High Grade Gliomas in Adults: brain-stem, cerebellar, an cerebellar extension of supratentorial gliomas, Z.Ram. October 14-17, 2009 (Invited Speaker) in Lecce, Italy.
86. **F. DiMeco** XIV World Congress of Neurological Surgery AANS/WFNS: 818 Controversial Cases in Neuro-Oncology: Ask the Experts; August 30th - September 4th , 2009 (GS Speaker and Moderator) in Boston, USA.
87. **F. DiMeco** XIV World Congress of Neurological Surgery AANS/WFNS 051 Brain Tumors and Stem Cells: Oncogenesis and Therapy. August 30th - September 4th, 2009 (GS Speaker) in Boston, USA.
88. **F. DiMeco** XXIII Corso di Aggiornamento per Giovani Neurochirurghi "Cancer Stem cells" and new therapy perspectives. July 19-21, 2009. (Invited Speaker) in Pomezia, Italy.
89. **F. DiMeco** AANS Annual Meeting Malignant Brain Tumors. State of the Art Treatment. May 2-6, 2009. (Panelist) in San Diego, USA.
90. **F. DiMeco** 3rd Forum Risk Management 2008. New Methodologies for the Treatment of Tumors. November 25-28, 2008 (Invited Speaker) in Arezzo, Italy.
91. **F. DiMeco** 57th National SiNch Congress. Experiences of Working Groups. November 6-8, 2008 (Moderator) in Udine, Italy.
92. **F. DiMeco** 57th National SiNch Congress The management of High Grade Gliomas, present situation and future perspectives. November 6-8, 2008. (Moderator) in Udine, Italy.
93. **F. DiMeco** 57th National SiNch Congress. DRG 1 and bottom-up costs analysis of craniotomy for brain tumor in 115 consecutive patients at the neurological Institute C. Besta, Milano. Udine November 6-8, 2008 (Moderator) in Milan, Italy.
94. **F. DiMeco** Orchestra Workshop on Brain Cancer. Integration between experimental research activity and clinical practice: organizational models in neurosurgery - October 24th 2008 (Invited Speaker) in Rome, Italy.
95. **F. DiMeco** "Locoregional Therapy of Malignant Brain Gliomas" at the XVIII Congress of European Society of Stereotactic and Functional neurosurgery EFN - October 5-8, 2008 (Invited Speaker) in Rimini, Italy.
96. **F. DiMeco** "Stem cells, what new perspectives?" At the Stages in Neuro-oncology, 5th National Theoretical and Practical Course - September 3-27, 2008 (Invited Speaker) in Turin, Italy.
97. **F. DiMeco** Orchestra Workshop on Brain Cancer. Presentation and discussion on the neuro-oncological clinical cases. September 25th 2008. (Invited Speaker) in Milan, Italy.
98. **F. DiMeco** "A Paradigm Shift in Neuro-Oncology the Brain Tumor Stem cells (BTSC) Story" at the Baltimore Seventh Annual Neuro-Oncology Updates. September 18-19, 2008 (Invited Speaker) in Baltimore, USA.
99. **F. DiMeco** Orchestra Workshop on Brain Cancer. Presentation and discussion on the neuro-oncological clinical cases. 2008, (Invited Speaker) in Rome, Italy.
100. **F. DiMeco** Loco-regional therapies. Neuromed Meetings, the Methastasis of the Nervous System. Pozzilli 2008 (Invited Speaker)
101. **F. DiMeco** 59th Annual Meeting of the German Society of Neurosurgery, 3. Joint Meeting with the Italian Society of Neurosurgery, 2008 in Würzburg.
102. **F. DiMeco** "New Diagnostic and Therapeutic Approaches in Neuro-Oncology" at the International Congress - 14-16 April 2008 (Invited Speaker) in Naples, Italy.
103. **F. DiMeco** "Brain Tumor Stem Cells (BTSC): a Paradigm Shift in Brain Tumor Research and Therapy" at the 76th Annual Meeting of the American Association of Neurological Surgeons (AANS) 2008 (Invited Speaker) in Chicago, USA.
104. **F. DiMeco** National Academy of Medicine in Cooperation with Fondazione Istituto Neurologico "Carlo Besta", Residential Course Up To Date in Neuro-oncology: Nothing but Hopes for the Future? January 19th, 2008 in Milan, Italy.
105. **F. DiMeco** 2nd International Meeting Updates in Neuro-oncology. June 28th, 2007 (Speaker & Organizer) in Cortona, Italy.
106. **F. DiMeco** SWC European Primary Sales School. Neurosurgery Anatomy & Major Surgical Interventions. June 18-19, 2007 (Invited Speaker) in Hamburg, Germany.
107. **F. DiMeco**. "New Treatment Modalities for Brain Gliomas" the Neuromed Meetings: -, May 5th, 2007 (Invited Speaker) in Pozzilli, Italy.
108. **F. DiMeco**. "The effect of hospital volume on outcomes for resection of brain tumors in Italy" at the Brain Tumor Satellite Symposium of the AANS Annual Meeting. T. April 2007 (Invited Speaker) in Washington DC, USA.
109. **F. DiMeco** SWC European Primary Sales School: Neurosurgery Anatomy & Major Surgical Intervention. Nordstedt March 5-6 ,2007 (Invited Speaker)
110. **F. DiMeco** "Neural stem cells: from therapeutic vector to therapeutic target" at the Neurosurgical Department, Md. Anderson, Houston, October 13th 2006 (Invited Speaker) in Houston, USA.
111. **F. DiMeco** "Surgical treatment of spine metastases" at the Winter Meeting of the Italian Society of Neurological Surgeons (SINch) February 2-4, 2006 (Invited Speaker) in Rome, Italy.
112. **F. DiMeco** "Tumors: from research to therapy" at the 54th National Meeting of the Italian Society of

- Neurological Surgeons (SINch) - December, 14-17 2005 (Invited Speaker) in Turin, Italy.
113. **F. DiMeco**: "Human, tumor-founding neural stem cells and tumor stem cell lines for the diagnosis and therapy of glioblastomas" at the Second Quadriennial Meeting of the World Federation of Neuro-oncology and Sixth Meeting of the European Association for Neuro-oncology, May 5-8, 2005 in Edinburgh, U.K.
 114. **F. DiMeco** CNS luncheon seminar "Emerging technologies in brain tumor diagnosis and treatment": Neural stem cells and brain tumors: from therapeutic carriers to therapeutic targets at the CNS Annual Meeting - November 18th 2004 (Invited Speaker) in San Francisco, USA.
 115. **F. DiMeco**: "New local therapies: polymers, pellets, wafers etc. Workshop: advances in glioma treatment" at the XVth Congress of the European Society for Stereotactic and Functional Neurosurgery - October 9-12, 2002 (Invited Speaker) in Toulouse, France.
 116. **F. DiMeco**: "Local delivery of antitumor agents via biodegradable polymers for the treatment of malignant brain tumors" at the XI Conferenza Pietro Paoletti "Delivering Drugs and Genes Directly to the Brain". May 29th, 2002 (Invited Speaker) in Pavia, Italy.
 117. **F. DiMeco** "Total removal of meningiomas occluding the superior sagittal sinus without sinus replacement: considerations over a series of 27 patients" at the 5th International Congress on Cerebral Venous System and Meningiomas – June 03-08, 2002 in Istanbul, Turkey.
 118. **F. DiMeco**: Interstitial delivery of antineoplastic agents via biodegradable polymers for the treatment of malignant gliomas at the L.I.T.A. - C.N.R. Milano (Invited Speaker) 2001 in Milan, Italy.
 119. **F. DiMeco** "Local delivery of mitoxantrone by biodegradable polymers for the treatment of experimental brain tumors" at the World Federation of Neuro-Oncology Societies/Society for Neuro-Oncology - November 15-18, 2001 in Washington DC, USA.
 120. **F. DiMeco** "Locally delivered mitoxantrone by biodegradable polymers for the treatment of malignant gliomas" at the Congress of Neurological Surgeons - September 29th - October 4th, 2001 in San Diego, USA.
 121. **F. DiMeco**: "Local delivery of mitoxantrone by biodegradable polymers for the treatment of malignant gliomas" at the 7th Congress of the Italian Association of Neuro-Oncology (AINO), - October 29-31, 2001 in Turin, Italy.
 122. **F. DiMeco** "Local IL-12 delivered by biodegradable microspheres (IL-12MS) for the treatment of experimental brain tumors" at The Society of Neuro-Oncology - November 18-21, 1999 in Scottsdale, USA.
 123. **F. DiMeco** "Interstitial chemotherapy for malignant gliomas: The Johns Hopkins Experience." The Associazione Italiana di Neuro-Oncologia, VI Congresso, Milano November 7-19, 1999.
 124. **F. DiMeco** "Local delivery of IL-12 by microspheres (IL-12MS) against experimental brain tumors" at the Congress of Neurological Surgeons - October 30th - November 4th, 1999 in Boston, USA.
 125. **F. DiMeco** "Effect of locally delivered interleukin-12 against intracranial 9L gliosarcoma" American Association of Neurological Surgeons, New Orleans, LA, 24-29 Aprile 1999.
 126. **F. DiMeco** "Paracrine delivery of IL-12 is effective in the treatment of intracranial 9L gliosarcoma in rats" at The Society for Neuro-Oncology, - November 12-15, 1998 in San Francisco, CA.
 127. **F. DiMeco** "Treatment of established 9L gliosarcoma in rats using syngeneic cells engineered to secrete IL-12" at the Congress of Neurological Surgeons - October 3-8, 1998 in Seattle, WA

**SELECTION OF
ABSTRACTS
PRESENTED AT
INTERNATIONAL
MEETINGS**

1. **F. DiMeco** et al. Theraglio. International Conference on Brain Tumor Research and Therapy, Lake Tahoe, CA, July 2014.
2. **F. DiMeco**, Casali C, Prada F, Legnani F, Lodrini S, Perin A, Saini M, Saladino A, Solero C, et al. Outcome and safety of the semisitting position in patients undergoing posterior fossa surgery in a consecutive series of 410 patients. 2013 Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013.
3. **F. DiMeco** et al. Posterior fossa craniotomy for tumor removal leads to fewer complications than craniectomy: a single center prospective study in a consecutive series of 152 patients. 2013 Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013.
4. **F. DiMeco**, Casali C., Legnani F., Solero C.L.. Posterior Fossa: craniotomies with no burr-holes using the anspach control deprh attachment drill. 57th National SINCH Congress, Udine, November 2008
5. **F. DiMeco**, Casali S., Legnani F., Giombini S., Broggi G., Solero C.L. Parasagittal meningiomas with invasion of the superior sagittal sinus: analysis of 181 consecutive patients. 57th National SINCH Congress, Udine, November 2008
6. Solero C.L., Visintini S., Valentini, F. DiMeco. Endocrinal Epidermal Cyst: cases treated at the Neurological Institute with microsurgery technique and, at times, with supra- and infratentorial endoscopy too. 57th National SINCH Congress, Udine, November 2008
7. Hertig S, Legnani FG, Pradilla G, Zamora G, Thai QA, Tyler BM, Gaini SM, **F. DiMeco**, Brem H, Olivi A. Epirubicin has potent anti-glioma activity and shows sustained-release when incorporated into a biodegradable controlled-release polymer in vitro. Abstracts of The Johns Hopkins Hospital Anesthesia and Critical Care Medicine 6th Annual Research Symposium. Baltimore, MD, November 30, 2004.

8. Legnani FG, Pradilla G, Thai QA, Vargas DL, Tyler BM, Zamora G, Gaini SM, **F. DiMeco**, Brem H, Olivi A. Local delivery of verapamil decreases Multi-Drug Resistance in a novel mitoxantrone resistant tumor model in rats Abstracts of The Johns Hopkins Hospital Anesthesia and Critical Care Medicine 6th Annual Research Symposium. Baltimore, MD, November 30, 2004
9. Pradilla G, Legnani FG, Hsu W, Tyler BM, Gaini S, **F. DiMeco**, Olivi A, Brem H. The proteasome inhibitor lactacystin prolongs survival in animals intracranially challenged with 9L gliosarcoma when delivered locally via controlled-release polymers. 54th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2004
10. Legnani FG, Pradilla G, Goodwin C, Vargas DL, Tyler BM, Gaini S, **F. DiMeco**, Brem H, Olivi A. T-cell apoptosis surrounding malignant gliomas could be related to decreased anti-tumor immunity and might be caused by tumor-derived Fas ligand in the 9L gliosarcoma model. 54th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2004
11. Legnani FG, Hertig S, Pradilla G, Zamora G, Tyler BM, Gaini S, **F. DiMeco**, Brem H, Olivi A. Epirubicin inhibits growth in malignant glioma and CNS pro-metastatic tumor cell lines in vitro. 54th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2004
12. Legnani FG, Zamora G, Pradilla G, Hertig S, Tyler BM, Gaini S, **F. DiMeco**, Brem H, Olivi A. The angiogenesis inhibitor minocycline significantly enhances the cytotoxicity of carboplatin on cell lines of malignant gliomas and CNS metastatic tumors. 54th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2004
13. Pradilla G, Legnani FG, Tyler BM, Gaini S, Chillemi F, Francescato P, Brem H, Olivi A, **F. DiMeco** Combined treatment of systemic BCNU and a locally delivered anti-angiogenic fragment of human endostatin prolong survival in rats challenged intracranially with 9L gliosarcoma. 54th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2004
14. Legnani FG, Pradilla G, Raza SM, Tyler BM, Zamora G, **F. DiMeco**, Brem H, Olivi A. Sensitization of Mitoxantrone resistance in malignant gliomas cell lines by concomitant administration of Verapamil. Meeting of the Southern Neurosurgical Society, Amelia Island, FL, March 24-28, 2004
15. Pradilla G., Petrangolini G., Legnani F.G., Tyler B.M., Francescato P., Chillemi F., Brem H., Olivi A, **F. DiMeco** Inhibition of angiogenesis in vitro and in vivo by local delivery of a novel endostatin fragment. American Association for Cancer Research, Annual Meeting, Toronto, Ontario, Canada April 5-9, 2003
16. Pradilla G., Petrangolini G., Legnani F.G., Tyler B.M., Francescato P., Chillemi F., Brem H., Olivi A, **F. DiMeco** Angiogenesis Inhibition Properties of a Novel Endostatin Analog; In vivo and In vitro Characteristics Using Controlled-Release Polymers. American Association of Neurological Surgeons, San Diego, CA, April 26 – May 1, 2003
17. **F. DiMeco**, Li K.W., Ciceri E., Rizzo P., Giovanazzi E., Lasio G., Broggi G., Solero C.L. Intramedullary spinal cord tumors: a consecutive series of 211 cases operated on at the Neurological Institute C.Besta of Milan, Italy. 52nd Annual Meeting Congress of Neurological Surgeons, Philadelphia, PA, Sep 21-26, 2002
18. **F. DiMeco**, Li K.W., Ciceri E., Rizzo P., Giovanazzi E., Lasio G., Broggi G., Solero C.L. Spinal cord gangliogliomas: report of 4 cases. 52nd Annual Meeting Congress of Neurological Surgeons, Philadelphia, PA, Sep 21-26, 2002
19. G. Lasio, R. Cozzi, **F. DiMeco**, A. Erbetta, G. Broggi, C.L. Solero, G. Felisati. Endoscopic treatment of pituitary macroadenomas: technique and results in 86 consecutive cases. 52nd Annual Meeting Congress of Neurological Surgeons, Philadelphia, PA, Sep 21-26, 2002
20. **DiMeco F**, Li KW, Tyler B, Wolf AS, Rizzo P, Brem H, Olivi A. "Local delivery of mitoxantrone by biodegradable polymers for the treatment of experimental brain tumors." World Federation of Neuro-Oncology Societies/Society for Neuro-Oncology, Washington DC, Nov 15-18, 2001
21. **DiMeco F**, Li KW, Tyler BM, Wolf A, Brem H, Olivi A. "Locally delivered mitoxantrone by biodegradable polymers for the treatment of malignant gliomas." Congress of Neurological Surgeons, San Diego, CA, Sept 29-Oct 4, 2001.
22. Olivi A, Barker F, **DiMeco F**, Tatter S, Judy K, Burak E, Hilt D, Grossman S, Fisher JD, Brem H, Piantadosi S. "Results of a multicenter Phase I dose escalation study of interstitial BCNU administered via wafers to patients with recurrent malignant glioma." The American Association of Neurological Surgeons, Toronto, Canada, April 21-26, 2001.
23. Kleinberg L, Weinigart J, Olivi A, Burger P, **DiMeco F**, Brem H, Wharam M. "Outcome with Gliadel followed by radiotherapy in newly diagnosed glioblastoma (GBM)." The American Association of Neurological Surgeons, Toronto, Canada, April 21-26, 2001.
24. Tyler BM, **F. DiMeco**, Li KW, Wolf A, Cohen SE, Denaro L, Brem H, Olivi A. "Mitoxantrone: A new agent for the treatment of experimental brain tumors: In vitro assessment." The American Association of Neurological Surgeons, Toronto, Canada, April 21-26, 2001.
25. **F. DiMeco**, Li KW, Tyler BM, Wolf A, Denaro L, Brem H, Olivi A. "Toxicity and efficacy of interstitially delivered mitoxantrone for the treatment of malignant brain tumors." The American Association of Neurological Surgeons, Toronto, Canada, April 21-26, 2001.
26. **F. DiMeco**, Li KW, Tyler B, Hanes J, Brem H, Olivi A. "Interleukin D12 delivery by biodegradable microspheres (IL-12 MS) for the treatment of metastatic brain tumors." The American Association of Neurological Surgeons, Toronto, Canada, April 21-26, 2001.

27. **F. DiMeco**, Cohen SE, Li KW, Tyler BM, Denaro L, Brem H, Olivi A. "Mitoxantrone: Potential for polymer based interstitial treatment of malignant gliomas." Congress of Neurological Surgeons, San Antonio, TX. September 23-28, 2000.
28. Li KW, Walter KA, Ngwaba C, **F. DiMeco**, Haroun R, Olivi A, Brem H. "Intraventricular meningiomas: The Johns Hopkins Experience." Congress of Neurological Surgeons, San Antonio, TX. September 23-28, 2000.
29. Haroun RI, Li KW, Rhines LD, **F. DiMeco**, Lawson HC, Tyler BM, Zahurak M, Piantadosi S, Brem H. "Locally delivered paclitaxel potentiates interleukin-2 (IL-2) immunotherapy in the treatment of experimental malignant glioma. Congress of Neurological Surgeons, San Antonio, TX. September 23-28, 2000.
30. Haroun RI, Li KW, Rhines LD, **F. DiMeco**, Lawson HC, Tyler BM, Zahurak M, Piantadosi S, Brem H. "Locally delivered 4-hydro-peroxycyclophosphamide (4HC) potentiates interleukin-2 (IL-2) immunotherapy in the treatment of intracranial 9L gliosarcoma." Congress of Neurological Surgeons, San Antonio, TX. September 23-28, 2000.
31. Rhines LD, Lawson HC, **F. DiMeco**, Samdani A, Tyler B, Dawson VL, Dawson T, Brem H. "Astroglia exposed to interleukin-4, interleukin-12, or interleukin-13 significantly affect the growth of co-cultured tumor cells." The Society of Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
32. Rhines LD, Sampath P, Betchen S, Lawson HC, **F. DiMeco**, Tyler B, Brem H. "Combined interstitial delivery of interleukin-2 from microspheres and BCNU from polymer wafers for the treatment of experimental glioma." The Society of Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
33. Rhines LD, Lawson HC, Perry VL, **F. DiMeco**, Sampath P, Tyler B, Brem H. "Synergy of locally delivered adriamycin and interleukin-2 in the treatment of intracranial 9L gliosarcoma." The Society of Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
34. **F. DiMeco**, Rhines LD, Hanes J, Lawson HC, Tyler BM, Aggarwal A, Perry VL, Brem H, Olivi A. "Local IL-12 delivered by biodegradable microspheres (IL-12MS) for the treatment of experimental brain tumors." The Society of Neuro-Oncology, Scottsdale, AZ, November 18-21, 1999.
35. **F. DiMeco**, Brem H, Lawson HC, Bohan E, Sampath P, Weingart J, Olivi A. "Interstitial chemotherapy for malignant gliomas: The Johns Hopkins Experience." The Associazione Italiana di Neuro-Oncologia, VI Congresso, Milan, Italy, November 17-19, 1999.
36. Rhines L, Lawson HC, Samdani A, **F. DiMeco**, Tyler B, Dawson VL, Brem H. "Stimulation of astroglia with interleukin-4, interleukin-12, and interleukin-13: Effects on co-cultured tumor cells." Congress of Neurological Surgeons, Boston, MA., October 30 - November 4, 1999.
37. Rhines L, Sampath P, Lawson HC, Betchen S, **F. DiMeco**, Tyler B, Brem H. "Interstitial polymeric delivery of Interleukin-2 (IL-2) combined with BCNU in the treatment of experimental glioma." Congress of Neurological Surgeons, Boston, MA., October 30 - November 4, 1999.
38. Rhines L, Perry VL, Lawson HC, **F. DiMeco**, Tyler BA, Brem H. "Locally delivered adriamycin (ADR) and interleukin-2 (IL-2) are synergistic in the treatment of intracranial 9L gliosarcoma." Congress of Neurological Surgeons, Boston, MA., October 30 - November 4, 1999.
39. **F. DiMeco**, Rhines LD, Hanes J, Lawson HC, Tyler BM, Aggarwal A, Perry VL, Brem H, Olivi A. "Local delivery of IL-12 by microspheres (IL-12MS) against experimental brain tumors." Congress of Neurological Surgeons, Boston, MA., October 30 - November 4, 1999.
40. Hanes J, Sills A, Zhao Z, Tyler B, **F. DiMeco**, Brat D, Leong K, Pardoll DM, Brem H. "Controlled delivery of cytokines from biodegradable polymers for brain tumor immunotherapy." American Brain Tumor Association, Chicago, IL, July 23-25, 1999.
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**INVENTIONS AND
PATENTS**

1. Developed a simulator for intraoperative ultrasound named usim and participated in the creation of the innovative startup neurostream
2. Patented the "Modulated ultra-sound compatible artificial cranial prothesis" USPT 02705262 6. USA 27-09-2016.
3. Patented the "Sistema e Metodo per la realizzazione di un opercolo craniale di essere vivente" Italia, n° 102017000020563, date 23-02-2017

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

Prof Francesco DiMeco

