

**EUROPEAN
CURRICULUM VITAE
FORMAT**

PERSONAL INFORMATION

Name	DiMeco Francesco, M.D.
Address	Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta" Via Celoria 11, 20133 Milan, Italy
Telephone	+39-02-2394 2421
Fax	
E-mail	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
Full 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 |
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- 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

- Reading skills **ENGLISH** 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 2OHOA 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 Laterra, Charles Eberhart, Alex Olivi, Greg Riggins, Angelo Vescovi, 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: 44

Citations: 11121

Publications: 180

PEER REVIEWED PAPERS

1: Cuccarini V, Antelmi L, Pollo B, Paterra R, Calatozzolo C, Nigri A, DiMeco F, Eoli M, Finocchiaro G, Brenna G, Tramacere I, Bruzzzone MG, Anghileri E. In vivo 2-hydroxyglutarate-proton magnetic resonance spectroscopy (3 T, PRESS technique) in treatment-naïve suspect lower-grade gliomas: feasibility and accuracy in a clinical setting. *Neurol Sci*. 2019 Oct 24. doi: 10.1007/s10072-019-04087-9. [Epub ahead of print] PubMed PMID: 31650436.

2: Franzini A, Moosa S, Servello D, Small I, DiMeco F, Xu Z, Elias WJ, Franzini A, Prada F. Ablative brain surgery: an overview. *Int J Hyperthermia*. 2019 Oct;36(2):64-80. doi: 10.1080/02656736.2019.1616833. PubMed PMID: 31537157.

3: Prada F, Vetrano IG, DelBene M, Mauri G, Sconfienza LM, DiMeco F. Letter to the Editor Regarding "The Diagnostic Properties of Intraoperative Ultrasound in Glioma Surgery and Factors Associated with Gross Total Tumor Resection". *World Neurosurg*. 2019 May;125:553-554. doi: 10.1016/j.wneu.2018.12.179. PubMed PMID: 31500084.

4: Moiraghi A, Prada F, Delaidelli A, Guatta R, May A, Bartoli A, Saini M, Perin A, Wälchli T, Momjian S, Bijlenga P, Schaller K, DiMeco F. Navigated Intraoperative 2-Dimensional Ultrasound in High-Grade Glioma Surgery: Impact on Extent of Resection and Patient Outcome. *Oper Neurosurg (Hagerstown)*. 2019 Aug 21. pii: opz203. doi: 10.1093/ons/opz203. [Epub ahead of print] PubMed PMID: 31435672.

5: Thorsson V, Gibbs DL, Brown SD, Wolf D, Bortone DS, Ou Yang TH, Porta-Pardo E, Gao GF, Plaisier CL, Eddy JA, Ziv E, Culhane AC, Paull EO, Sivakumar IKA, Gentles AJ, Malhotra R, Farshidfar F, Colaprico A, Parker JS, Mose LE, Vo NS, Liu J, Liu

Y, Rader J, Dhankani V, Reynolds SM, Bowlby R, Califano A, Chemiack AD, Anastassiou D, Bedognetti D, Mokrab Y, Newman AM, Rao A, Chen K, Krasnitz A, Hu H, Malta TM, Noushmehr H, Pedomallu CS, Bullman S, Ojesina AI, Lamb A, Zhou W, Shen H, Choueiri TK, Weinstein JN, Guinney J, Saltz J, Holt RA, Rabkin CS; Cancer Genome Atlas Research Network, Lazar AJ, Serody JS, Demicco EG, Disis ML, Vincent BG, Shmulevich I. The Immune Landscape of Cancer. *Immunity*. 2019 Aug 20;51(2):411-412. doi: 10.1016/j.immuni.2019.08.004. PubMed PMID: 31433971.

6: Prada F, Gennari AG, Del Bene M, Bono BC, Quaia E, D'Incerti L, Villani F, Didato G, Tringali G, DiMeco F. Intraoperative ultrasonography (ioUS) characteristics of focal cortical dysplasia (FCD) type II b. *Seizure*. 2019 Jul;69:80-86. doi: 10.1016/j.seizure.2019.02.020. Epub 2019 Mar 12. PubMed PMID: 30999253.

7: Stienen MN, Bartek J Jr, Czabanka MA, Freyschlag CF, Koliaas A, Krieg SM, Moojen W, Renovanz M, Sampron N, Adib SD, Schubert GA, Demetriades AK, Ringel F, Regli L, Schaller K, Meling TR; EANS Young Neurosurgeons and EANS Training Committee. Neurosurgical procedures performed during residency in Europe-preliminary numbers and time trends. *Acta Neurochir (Wien)*. 2019 May;161(5):843-853. doi: 10.1007/s00701-019-03888-3. Epub 2019 Mar 29. PubMed PMID: 30927157.

8: Acerbi F, Prada F, Vetrano IG, Falco J, Faragò G, Ferroli P, DiMeco F. Indocyanine Green and Contrast-Enhanced Ultrasound Videoangiography: A Synergistic Approach for Real-Time Verification of Distal Revascularization and Aneurysm Occlusion in a Complex Distal Middle Cerebral Artery Aneurysm. *World Neurosurg*. 2019 May;125:277-284. doi: 10.1016/j.wneu.2019.01.241. Epub 2019 Feb 15. PubMed PMID: 30776513.

9: de Laurentis C, Del Bene M, Fociani P, Tonello C, Pollo B, DiMeco F. 5-ALA Fluorescence in Case of Brain Abscess by *Aggregatibacter* Mimicking Glioblastoma. *World Neurosurg*. 2019 May;125:175-178. doi: 10.1016/j.wneu.2019.01.190. Epub 2019 Feb 8. PubMed PMID: 30743027.

10: Legnani FG, Franzini A, Mattei L, Saladino A, Casali C, Prada F, Perin A, Cojazzi V, Saini M, Kronreif G, Wolfsberger S, DiMeco F. Image-Guided Biopsy of Intracranial Lesions with a Small Robotic Device (iSYS1): A Prospective, Exploratory Pilot Study. *Oper Neurosurg (Hagerstown)*. 2019 Oct 1;17(4):403-412. doi: 10.1093/ons/opy411. PubMed PMID: 30690491.

11: Huang RY, Bi WL, Griffith B, Kaufmann TJ, la Fougère C, Schmidt NO, Tonn JC, Vogelbaum MA, Wen PY, Aldape K, Nassiri F, Zadeh G, Dunn IF; International Consortium on Meningiomas . Imaging and diagnostic advances for intracranial meningiomas. *Neuro Oncol*. 2019 Jan 14;21(Supplement_1):i44-i61. doi: 10.1093/neuonc/noy143. PubMed PMID: 30649491; PubMed Central PMCID: PMC6347083.

12: Suppiah S, Nassiri F, Bi WL, Dunn IF, Hanemann CO, Horbinski CM, Hashizume R, James CD, Mawrin C, Noushmehr H, Perry A, Sahm F, Sloan A, Von Deimling A, Wen PY, Aldape K, Zadeh G; International Consortium on Meningiomas . Molecular and translational advances in meningiomas. *Neuro Oncol*. 2019 Jan 14;21(Supplement_1):i4-i17. doi: 10.1093/neuonc/noy178. PubMed PMID: 30649490; PubMed Central PMCID: PMC6347079.

13: Brastianos PK, Galanis E, Butowski N, Chan JW, Dunn IF, Goldbrunner R, Herold-Mende C, Ippen FM, Mawrin C, McDermott MW, Sloan A, Snyder J, Tabatabai G, Tatagiba M, Tonn JC, Wen PY, Aldape K, Nassiri F, Zadeh G, Jenkinson MD, Raleigh DR; International Consortium on Meningiomas . Advances in multidisciplinary therapy for meningiomas. *Neuro Oncol*. 2019 Jan 14;21(Supplement_1):i18-i31. doi: 10.1093/neuonc/noy136. PubMed PMID: 30649489; PubMed Central PMCID: PMC6347080.

14: Nassiri F, Price B, Shehab A, Au K, Cusimano MD, Jenkinson MD, Jungk C, Mansouri A, Santarius T, Suppiah S, Teng KX, Toor GS, Zadeh G, Walbert T, Drummond KJ; International Consortium on Meningiomas . Life after surgical resection of a meningioma: a prospective cross-sectional study evaluating health-related quality of life. *Neuro Oncol*. 2019 Jan 14;21(Supplement_1):i32-i43. doi: 10.1093/neuonc/noy152. PubMed PMID: 30649488;

15: Del Bene M, Perin A, Casali C, Legnani F, Saladino A, Mattei L, Vetrano IG, Saini M, DiMeco F, Prada F. Advanced Ultrasound Imaging in Glioma Surgery: Beyond Gray-Scale B-mode. *Front Oncol.* 2018 Dec 3;8:576. doi: 10.3389/fonc.2018.00576. eCollection 2018. PubMed PMID: 30560090; PubMed Central PMCID: PMC6287020.

16: D'Angelo F, Ceccarelli M, Tala, Garofano L, Zhang J, Frattini V, Caruso FP, Lewis G, Alfaro KD, Bauchet L, Berzero G, Cachia D, Cangiano M, Capelle L, de Groot J, DiMeco F, Ducray F, Farah W, Finocchiaro G, Goutagny S, Kamiya-Matsuoka C, Lavarino C, Loiseau H, Lorgis V, Marras CE, McCutcheon I, Nam DH, Ronchi S, Saletti V, Seizeur R, Slopis J, Suñol M, Vandenbos F, Varlet P, Vidaud D, Watts C, Tabar V, Reuss DE, Kim SK, Meyronet D, Mokhtari K, Salvador H, Bhat KP, Eoli M, Sanson M, Lasorella A, Iavarone A. The molecular landscape of glioma in patients with Neurofibromatosis 1. *Nat Med.* 2019 Jan;25(1):176-187. doi: 10.1038/s41591-018-0263-8. Epub 2018 Dec 10. PubMed PMID: 30531922; PubMed Central PMCID: PMC6857804.

17: Prada F, Del Bene M, Rampini A, Mattei L, Casali C, Vetrano IG, Gennari AG, Sdao S, Saini M, Sconfienza LM, DiMeco F. Intraoperative Strain Elastosonography in Brain Tumor Surgery. *Oper Neurosurg (Hagerstown).* 2019 Aug 1;17(2):227-236. doi: 10.1093/ons/opy323. PubMed PMID: 30496587.

18: Vetrano IG, Prada F, Perin A, Casali C, DiMeco F, Saini M. Piezosurgery for Infra- and Supratentorial Craniotomies in Brain Tumor Surgery. *World Neurosurg.* 2019 Feb;122:e1398-e1404. doi: 10.1016/j.wneu.2018.11.064. Epub 2018 Nov 17. PubMed PMID: 30458322.

19: 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.* 2019 Jan;16(1):67-87. doi: 10.1007/s13311-018-00683-3. Review. PubMed PMID: 30406382; PubMed Central PMCID: PMC6361053.

20: Wang Y, Xu X, Maglic D, Dill MT, Mojumdar K, Ng PK, Jeong KJ, Tsang YH, Moreno D, Bhavana VH, Peng X, Ge Z, Chen H, Li J, Chen Z, Zhang H, Han L, Du D, Creighton CJ, Mills GB; Cancer Genome Atlas Research Network, Camargo F, Liang H. Comprehensive Molecular Characterization of the Hippo Signaling Pathway in Cancer. *Cell Rep.* 2018 Oct 30;25(5):1304-1317.e5. doi: 10.1016/j.celrep.2018.10.001. PubMed PMID: 30380420; PubMed Central PMCID: PMC6326181.

21: 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.* 2019 Jan 1;25(1):266-276. doi: 10.1158/1078-0432.CCR-18-1941. Epub 2018 Oct 4. PubMed PMID: 30287549.

22: 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 Nov;160(11):2087-2097. doi: 10.1007/s00701-018-3676-8. Epub 2018 Oct 1. PubMed PMID: 30276545.

23: Korkut A, Zaidi S, Kanchi RS, Rao S, Gough NR, Schultz A, Li X, Lorenzi PL, Berger AC, Robertson G, Kwong LN, Datto M, Roszik J, Ling S, Ravikumar V, Manyam G, Rao A, Shelley S, Liu Y, Ju Z, Hansel D, de Velasco G, Pennathur A, Andersen JB, O'Rourke CJ, Ohshiro K, Jogunoori W, Nguyen BN, Li S, Osmanbeyoglu HU, Ajani JA, Mani SA, Houseman A, Wiznerowicz M, Chen J, Gu S, Ma W, Zhang J, Tong P, Cherniack AD, Deng C, Resar L; Cancer Genome Atlas Research Network, Weinstein JN, Mishra L, Akbani R. A Pan-Cancer Analysis Reveals High-Frequency Genetic Alterations in Mediators of Signaling by the TGF- β Superfamily. *Cell Syst.* 2018 Oct 24;7(4):422-437.e7. doi: 10.1016/j.cels.2018.08.010. Epub 2018 Sep 26. PubMed PMID: 30268436; PubMed Central PMCID: PMC6370347.

24: Bailey MH, Tokheim C, Porta-Pardo E, Sengupta S, Bertrand D, Weerasinghe A,

Colaprico A, Wendl MC, Kim J, Reardon B, Kwok-Shing Ng P, Jeong KJ, Cao S, Wang Z, Gao J, Gao Q, Wang F, Liu EM, Mularoni L, Rubio-Perez C, Nagarajan N, Cortés-Ciriano I, Zhou DC, Liang WW, Hess JM, Yellapantula VD, Tamborero D, Gonzalez-Perez A, Suphavilai C, Ko JY, Khurana E, Park PJ, Van Allen EM, Liang H; MC3 Working Group; Cancer Genome Atlas Research Network, Lawrence MS, Godzik A, Lopez-Bigas N, Stuart J, Wheeler D, Getz G, Chen K, Lazar AJ, Mills GB, Karchin R, Ding L. Comprehensive Characterization of Cancer Driver Genes and Mutations. *Cell*. 2018 Aug 9;174(4):1034-1035. doi: 10.1016/j.cell.2018.07.034. PubMed PMID: 30096302.

25: Kahles A, Lehmann KV, Toussaint NC, Hüser M, Stark SG, Sachsenberg T, Stegle O, Kohlbacher O, Sander C; Cancer Genome Atlas Research Network, Ratsch G. Comprehensive Analysis of Alternative Splicing Across Tumors from 8,705 Patients. *Cancer Cell*. 2018 Aug 13;34(2):211-224.e6. doi: 10.1016/j.ccell.2018.07.001. Epub 2018 Aug 2. PubMed PMID: 30078747.

26: Prada F, Vetrano IG, DiMeco F. Contrast-enhanced ultrasound (CEUS) in spinal tumor surgery. *Acta Neurochir (Wien)*. 2018 Sep;160(9):1869-1871. doi: 10.1007/s00701-018-3626-5. Epub 2018 Jul 27. PubMed PMID: 30054726.

27: 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. PubMed PMID: 29961376.

28: Ricketts CJ, De Cubas AA, Fan H, Smith CC, Lang M, Reznik E, Bowlby R, Gibb EA, Akbani R, Beroukhim R, Bottaro DP, Choueiri TK, Gibbs RA, Godwin AK, Haake S, Hakimi AA, Henske EP, Hsieh JJ, Ho TH, Kanchi RS, Krishnan B, Kwiatkowski DJ, Lui W, Merino MJ, Mills GB, Myers J, Nickerson ML, Reuter VE, Schmidt LS, Shelley CS, Shen H, Shuch B, Signoretti S, Srinivasan R, Tamboli P, Thomas G, Vincent BG, Vocke CD, Wheeler DA, Yang L, Kim WY, Robertson AG; Cancer Genome Atlas Research Network, Spellman PT, Rathmell WK, Linehan WM. The Cancer Genome Atlas Comprehensive Molecular Characterization of Renal Cell Carcinoma. *Cell Rep*. 2018 Jun 19;23(12):3698. doi: 10.1016/j.celrep.2018.06.032. PubMed PMID: 29925010.

29: 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)*. 2019 Mar 1;16(3):E95-E100. doi: 10.1093/ons/opy114. PubMed PMID: 29873789.

30: Simonetti G, Terreni MR, DiMeco F, Fariselli L, Gaviani P. Letter to the editor: lung metastasis in WHO grade I meningioma. *Neurol Sci*. 2018 Oct;39(10):1781-1783. doi: 10.1007/s10072-018-3459-2. Epub 2018 Jun 1. PubMed PMID: 29858721.

31: Pellegatta S, Eoli M, Cuccarini V, Anghileri E, Pollo B, Pessina S, Frigerio S, Servida M, Cuppini L, Antozzi C, Cuzzubbo S, Corbetta C, Patera 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.

32: Thorsson V, Gibbs DL, Brown SD, Wolf D, Bortone DS, Ou Yang TH, Porta-Pardo E, Gao GF, Plaisier CL, Eddy JA, Ziv E, Culhane AC, Paull EO, Sivakumar IKA, Gentles AJ, Malhotra R, Farshidfar F, Colaprico A, Parker JS, Mose LE, Vo NS, Liu J, Liu Y, Rader J, Dhankani V, Reynolds SM, Bowlby R, Califano A, Cherniack AD, Anastassiou D, Bedognetti D, Mokrab Y, Newman AM, Rao A, Chen K, Krasnitz A, Hu H, Malta TM, Noushmehr H, Pedamallu CS, Bullman S, Ojesina AI, Lamb A, Zhou W, Shen H, Choueiri TK, Weinstein JN, Guinney J, Saltz J, Holt RA, Rabkin CS; Cancer Genome Atlas Research Network, Lazar AJ, Serody JS, Demicco EG, Disis ML, Vincent BG, Shmulevich I. The Immune Landscape of Cancer. *Immunity*. 2018 Apr 17;48(4):812-830.e14. doi: 10.1016/j.immuni.2018.03.023. Epub 2018 Apr 5. Erratum in: *Immunity*. 2019 Aug 20;51(2):411-412. PubMed PMID: 29628290; PubMed Central

PMCID: PMC5982584.

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**BOOK
CHAPTERS**

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10. A. Olivi, L. Rhines, **F. DiMeco**. Brain tumors during pregnancy, in H. Richard Winn (ed), **Youman's Neurological Surgery, 5th edition**. WB Saunders, Philadelphia, PA: 867-876, 2003.
11. **F. DiMeco**, H. Brem, J.D. Weingart, A. Olivi. Gliadel: a new method for the treatment of brain tumors. In: **Drug Delivery Systems in Cancer Therapy**. D.M. Brown ed., Humana Press Inc, Totowa, NJ: 215-227, 2003
12. **F. DiMeco**, G. Petrangolini, P. Rizzo, A. Olivi, H.Brem. Polimeri biodegradabili e rilascio locale di chemioterapici. In: **La terapia dei tumori cerebrali maligni nell'adulto e nel bambino**. A. Sghirlanzoni, A. Boiardi eds., Springer-Verlag Italia, Milano: 139-145, 2002
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.
14. G.C. Nicola, G. Lasio, P. Roccucci, G. Tonnarelli, S. Visintini, L. Valentini, C. Solero, F. DiMeco. Craniopharyngiomas: a review of 74 surgical cases. In "skull base surgery – First International Skull Base Congress – Hannover 1992" Samii eds. Karger, Basel 430 – 432, 1994

**ORIGINAL
REPORTS (NON
PEER
REVIEWED)**

1. C.L. Solero, G. Cantu', G. Lasio, F. Mattavelli, F. Salvatori, L. Valentini, S.V. Visintini, **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
2. C.L. Solero, G. Lasio, L. Valentini, **F. DiMeco**, S. Visintini, E. Ciceri. I meningiomi iperostosi della piccola e grande ala sfenoidale. Considerazioni su 16 casi operati. [Hyperostosing meningiomas of the greater and lesser sphenoid wings. Review of 16 operated cases] **Neuroradiologia**, G. Pero Eds., Del Centauro, Milano, 103-106, 1994
3. G. Lasio, C.L. Solero, S. Visintini, L. Valentini, **F. DiMeco**, S. Giombini. Meningiomi del forame magno: risultati in 21 casi operati. **Neuroradiologia**. [Foramen magnum meningiomas: results of surgical treatment in 21 cases] G. Pero Eds., Del Centauro, Milano, 107-109, 1994
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

**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 Società 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 sottotentoriale” 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 AIIC 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. Intradural, 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 Metastasectomy 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 EFFSN - 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 Francisoc, 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 Francisoc, CA, October 2013.
4. **F. DiMeco**, Casali C., Legnani F., Solero C.L.. Posterior Fossa: craniotomies with no burr-holes using the anspach control dephr 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
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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
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 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
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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 prosthesis" 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

