

CURRICULUM VITAE

NAME Francesco DiMeco, M.D.
Neurosurgeon

CURRENT APPOINTMENTS Director, Department of Neurosurgery
Director, 1st Division of Neurosurgery
Assistant Professor (adjunct), Dept. of Neurosurgery, Johns Hopkins
Medical School
Associate Professor of Neurosurgery (adjunct), University of Milan

WORK ADDRESS (Italy) Fondazione I.R.C.C.S. Istituto Neurologico "C. Besta"
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DATE OF BIRTH May 17, 1962

PLACE OF BIRTH Perugia, Italy

NATIONALITY Italian

EDUCATION

1981 "Liceo Classico F. Petrarca" Arezzo High School
degree: score 60/60

1982-1988 University of Milan, Medical School, M.D. Degree
Summa Cum Laude
Thesis: "Spinal cord stimulation in the treatment of the
neurological bladder"

POSTDOCTORAL TRAINING

1988 Medical School of the Italian Naval Academy
(courses and final exams on internal medicine,
emergency surgery, tropical medicine, naval
medicine, microbiology, clinical biochemistry)

1988-1993 Neurosurgery Residency, Institute of Neurosurgery
University of Milan Medical School

- 1993 Neurosurgery Board certification (score 70/70)
Thesis: "Acoustic neuroma: evolution of surgical technique and role of intra-operative neuro-physiological monitoring"
- 1995 Met the U.S. medical science examination requirement under the provisions of public law 94-484. August 1995 - passed step 2 examination (clinical science). September 1995 - passed step 1 examination (basic medical science) of the United States Medical Licensing Examination (USMLE) administered by ECFMG
- 1997-2000 Neuro-Oncology fellowship, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore MD - USA
- 2006 Managerial Training in Health Care at Scuola di Direzione Aziendale of Università Bocconi and IREF certificate

LICENSURE AND CERTIFICATIONS

Italian medical licensure
Certification and licensure in Hyperbaric Medicine
U.S. license to practice medicine (ECFMG)

BOARD CERTIFICATION

- 1993 Italian Board of Neurological Surgery

PROFESSIONAL EXPERIENCE

- 1982-1988 University of Milan, Medical School
- 1986-1987 Internships in Gynecology and Obstetrics, Emergency Surgery, Internal Medicine and Neurosurgery
- 1988-1989 Lieutenant, Italian Navy Helicopter Emergency Medical Service
- 1988-1993 Neurosurgery, University of Milan Medical School, Resident
- 1991-present Department of Neurosurgery, Fondazione Istituto Nazionale Neurologico "C. Besta" of Milan, Faculty
- 1997-1998 Neurological Surgery, Johns Hopkins University School of Medicine, postdoctoral research fellow
- 1998-2000 Neurological Surgery, Johns Hopkins University School of Medicine, postdoctoral clinical/research fellow

ACADEMIC APPOINTMENTS

- 2002-2005 Johns Hopkins School of Medicine, Department of Neurosurgery, Research Associate

2005-present Johns Hopkins School of Medicine, Department of Neurosurgery, Assistant Professor (adjunct)

2007-present Università degli Studi di Milano, Scuola di Specializzazione in Neurochirurgia, Associate Professor

HOSPITAL APPOINTMENTS

1989-1991 Ospedale Fatebenefratelli e Oftalmico, Milan, staff neurosurgeon

1991-present Fondazione Istituto Neurologico “C. Besta”, Milan, staff neurosurgeon

2007-2010 Fondazione I.R.C.C.S. Istituto Neurologico “C. Besta”, Milan. Unit of Surgical Neuro-oncology - Director

2010-2011 Fondazione I.R.C.C.S. Istituto Neurologico “C. Besta”, Milan. II Division of Neurological Surgery
Chairman (interim)

2011-present Fondazione I.R.C.C.S. Istituto Neurologico “C. Besta”, Milan. Division of Neurological Surgery – Director, 1st Division of Neurosurgery

2012-present Fondazione I.R.C.C.S. Istituto Neurologico “C. Besta”, Milan. Division of Neurological Surgery – Director, Department of Neurosurgery

ORGANIZATIONAL ACTIVITIES

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

1997-present Member: Dandy Society of Neurological Surgeons

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

2001-present Member: Società Italiana di Neurochirurgia

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

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

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

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

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

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

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

HONORS AND AWARDS

1987 Grant on spinal cord stimulation (Region of Lombardy, protocol #1020).

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"

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

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

2001 Grant Italian Ministry of Health (Ricerca Finalizzata) 2001-2003 "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)

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

2005 Brain Tumors U.K. 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 Quadriennial Meeting of the World Federation of Neuro-Oncology / 6th Meeting of the European Association for Neuro-Oncology held in Edinburgh, Scotland on May 5th – 8th, 2005

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

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

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".

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)

CLINICAL INTERESTS AND EXPERIENCE

Specialized in brain tumors; skull base surgery; spine surgery (tumors).

RESEARCH EXPERIENCE

1995-present	Collaboration with the Molecular Neuro-Oncology and Gene Transfer Laboratory at Fondazione Istituto Neurologico C. Besta to draw up gene therapy protocols for the treatment of experimental malignant gliomas
1997-2000	Postdoctoral neuro-oncology research fellow at Johns Hopkins Medical School, Department of Neurosurgery, Hunterian Brain Tumor Lab (Director: Dr. Henry Brem), investigating the role of locally administered cytokines and/or chemotherapeutic drugs via engineered cells and/or biodegradable polymers in the treatment of experimental malignant brain tumors
July 2000-present	Cooperation with Prof. A. Vescovi (University Milano Bicocca), in establishing brain tumor stem cells (Tumor Founding Stem Cells)
July 2000-October 2002	Hunterian Brain Tumor Laboratory, Department of Neurological Surgery, Johns Hopkins Medical School, Consultant
October 2002-November 2005	Hunterian Brain Tumor Laboratory, Johns Hopkins Medical School, Department of Neurological Surgery, Research Associate
November 2005-present	Johns Hopkins Medical School, Department of Neurological Surgery, Assistant Professor (adjunct)

MAJOR RESEARCH INTERESTS

Research areas include: 1) identifying and testing novel antitumor agents, including anti-angiogenic factors locally delivered by polymers 2) combined use of different classes of anticancer drugs 3) use of genetically engineered stem cells to locally deliver antitumor agents to treat experimental brain tumors in animal models 4) Brain Tumor Stem Cells (tumor founding stem cells): key issues related to brain tumor biology can be tackled and solved through brain tumor stem cells.

EDITORIAL BOARDS

Year	Role	Journal
2014-present	Guest Editor	BioMed Research International
2014-present	Ad hoc reviewer	Molecular Cancer Therapeutics
2004-present	Ad hoc reviewer	Neurosurgery
2006-present	Ad hoc reviewer	Exp Rev Neurotherapeutics
2007-2008	Ad hoc reviewer	J Neuro-oncology
2008-present	Editorial Board Member	J Neuro-oncology

2009-present	Ad hoc reviewer	Neurosurgical Review
2010-present	Ad hoc reviewer	Annals of Surgical Oncology
2010-present	Ad hoc reviewer	World Neurosurgery

SCIENTIFIC PUBLICATIONS

Francesco DiMeco has published 83 peer-reviewed papers (Medline indexed), among which 4 are reviews, and 12 are book chapters. Among the book chapters, 2 chapters were published in **Youman's Neurological Surgery**, respectively 5th and 6th edition, one in **O.AI-Mefty Meningiomas 2nd edition**, and one in **Schmidek & Sweet Operative Neurosurgical Techniques, 6th Edition**.

PEER REVIEWED PAPERS

1. 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.
2. Prada F, Del Bene M, Moiraghi A, Casali A, 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 Research International**. Accepted 10 Jan 2015. In press.
3. 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.
4. 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 in neurosurgery. **J Ultrasound**. 2014 Sept; 17(3), 243-251.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. Brennan CW, Verhaak RG, McKenna A, Campos B, Noushmehr H, Salama SR, Zheng S, Chakravarty D, Sanborn JZ, Berman SH, et al. TCGA Research Network. The somatic genomic landscape of glioblastoma. **Cell**. 2013 Oct 10;155(2):462-77
12. 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.
13. 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
 14. 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
 15. 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
 16. Salmaggi A, Milanese I, Silvani A, Gaviani P, Marchetti M, Fariselli L, Solero CL, Maccagnano C, Casali C, Guzzetti S, Pollo B, Ciusani E, **DiMeco F**. Prospective study of carmustine wafers in combination with 6-month metronomic temozolomide and radiation therapy in newly diagnosed glioblastoma: preliminary results. **J Neurosurg.** 2013 Apr;118(4):821-9 IF 3.148
 17. Cordella R, Acerbi F, Marras CE, Carozzi C, Vailati D, Saini M, Tringali G, Ferroli P, **DiMeco F**, Franzini A, Broggi G. Risk of seizures during intraoperative electrocortical stimulation of brain motor areas: a retrospective study on 50 patients. **Neurol Sci.** 2013 Jan;34(1):63-70. IF 1.412
 18. Binda E., Visioli A, Giani F. Lamorte G, Copetti M, Pitter KL, Huse JT, Cajola L, Zanetti N, **F.DiMeco**, De Filippis L, Annunziato M, Maira G, Anile C, De Bonis P, Reynolds BA, Pasquale EB, Vescovi AL The ElhA2 receptor drives self-renewal tumorigenicity in stem-like tumor-propagating cells from human glioblastoma. **Cancer Cell** December 2012 11; 22(6):765-80 IF 26.566
 19. Ferroli P, Caldiroli D, Acerbi F, Scholtze M, Piro A, Schiariti M, Orena EF, Castiglione M, Broggi M, Perin A., **F.DiMeco** Application of an avion model of incident reporting and investigation to the neurosurgical scenario: method and preliminary data. **Neurosurg Focus** 33 (5): E7 November 2012 IF 2.867
 20. Corsini E, Ciusani E, Gaviani P, Silvani A, Canazza A, Bernardi G, Calatozzolo C, **F.DiMeco**, Salmaggi A decrease in circulating endothelial progenitor cells in treated glioma patients. **J Neurooncol** May 2012 108(1):123. IF 3.214
 21. Prada F., Saladino A., Giombini S, Erbetta A., Saini M., **F.DiMeco**, Lodrini S. Spinal cord herniation: management and outcome in a series of 12 consecutive patients and review of the literature. **Acta Neurochir** 2012 Apr;154(4):723-30 IF: 1.520
 22. He J, Liu Y, Zhu T, Zhu J, **DiMeco F**, Vescovi AL, Heth JA, Muraszko KM, Fan X, Lubman DM. CD90 is identified as a marker for cancer stem cells in primary high-grade gliomas using tissue microarrays. **Mol Cell Proteomic.** 2012; 11(6): M111.010744.
 23. A.Bizzi, S.Nava, F.Ferré, G.Castelli, D.Aquino, F.Ciaraffa, G.Broggi, **F.DiMeco**, S.Piacentini. Aphasia induced by gliomas growing in the ventrolateral frontal region: assessment with diffusion MR tractography, functional MR imaging and neuropsychology. **Cortex** 2012 Feb;48(2):255-72. IF 6.080
 24. A.Silvani, P.Gaviani, E.Lamperti, A. Botturi, **F.DiMeco**, A. Franzini, P.Ferroli, L.Fariselli, I.Milanese, A. Erbetta, B. Pollo, A. Salmaggi. Adult medulloblastoma: multiagent chemotherapy with cisplatin and etoposide: a single institutional experience. **J. Neurooncol.** 2012 Feb;106(3):595-600 IF 3.214
 25. He J, Liu Y, Zhu T, Zhu J, **F.DiMeco** , Vescovi AL, Heth JA, Muraszko KM, Fan X, Lubman DM. CD90 is identified as a marker for cancer stem cells in primary high-grade gliomas using tissue microarrays. **Mol Cell Proteomic** 2012 Jun;11(6):M111.010744 IF: 7.398
 26. Salmaggi A, Duri S, Silvani A, Gaviani P, Milanese I, Casali C, **F.DiMeco**. Loco-regional treatments in first-diagnosis glioblastoma: literature review on association between Stupp protocol and Gliadel. **Neurological Science** 2011 Nov 32 Suppl 2:S241-5 IF 1.220
 27. T.S. Zhu, M.A. Costello, C.E. Talsma, C.G. Flack, J.G. Crowley, L.L. Hamm, X.He, S.L. H.-J Umper, J.A. Heath, K.M. Maraszko, **F.DiMeco**, A.L. Vescovi, X.Fan. Endothelial cells create a stem cell niche in glioblastoma by providing notch ligands that nurture self-renewal of cancer stem-like cells. **Cancer Research** 2011 Sep71(18); 6061–72. IF 8.234

28. Jintang He, Yashu Liu, Thant S. Zhu, Xiaolei Xie, Mark A. Costello, Caroline E. Talsma, Callie G. Flack, Jessica G. Crowley, **F.DiMeco**, Angelo L. Vescovi, Xing Fan, and David Mitchell Lubman. Glycoproteomic Analysis of Glioblastoma Stem Cell Differentiation. **J. Proteome Res.** 2011 Jan; 10 (1) 330-338 IF 5.684
29. Calatuzzolo C, Canazza A, Pollo B, Di Pierro E, Ciusani E, Maderna E, Salce E, Sponza V, Frigerio S, **F.DiMeco**, Schinelli S, Salmaggi A. Expression of the new CXCL12 receptor, CXCR7, in gliomas **Cancer Biology & Therapy** 2011 Jan; 15;11(2):242-53 IF **2.905**
30. He J, Liu Y, Xie X, Zhu T, Soules M, **F.DiMeco**, Vescovi AL, Fan X, Lubman DM. Identification of Cell Surface Glycoprotein Markers for Glioblastoma-Derived Stem-Like Cells Using a Lectin Microarray and LC-MS/MS Approach. **J Proteome Res.** 2010 May7; 9, 2565-2572 IF 5.684
31. Xing Fan, Leila Khaki, Thant S. Zhu, Mary E. Soules, Caroline E. Talsma, Naheed Gul, Cheryl, Koh, Jianguang Zhang, Yue-Ming Li, Jarek Maciaczyk, Guido Nikkah, **F.DiMeco**, Sara Piccirillo, Angelo L. Vescovi, Charles G. Eberhart. Notch Pathway Blockade Depletes CD133-Positive Glioblastoma Cells and Inhibits Growth of Tumor Neurospheres and Xenografts. **Stem Cells.** 2010: Jan 28(1):5-16 IF 7.741
32. Salmaggi A, Maderna E, Calatuzzolo C, Gaviani P, Canazza A, Milanese I, Silvani A, **F.DiMeco**, Carbone A, Pollo B. CXCL12, CXCR4 and CXCR7 expression in brain metastases. **Cancer Biol Ther.** 2009 Sep;8(17):1608-14. I.F. 2.761
33. Peng Sun, Shuli Xia, Bachchu Lal, Charles G. Eberhart, Alfredo Quinones-Hinojosa, Jerek Maciaczyk, William Mutsui, **F.DiMeco**, Sara. M. Piccirillo, Angelo L. Vescovi, John Laterra: *DNER*, an Epigenetically Modulated Gene, Regulates Glioblastoma-Derived Neurosphere Cell Differentiation and Tumor Propagation. **Stem Cells** 2009 Jul; 27:1473-1486. IF 7.741
34. Hasan A. Zaidi, Thomas Kosztowski, **F.DiMeco**, Alfredo Quiñones-Hinojosa: Origins and clinical implications of the brain tumor stem cell hypothesis. **J Neuro-oncol** (2009) 93:49-60. IF 2.323
35. Silvani, P. Gaviani, E.A. Lamperti, M. Eoli, C. Falcone, **F.DiMeco**, I.M. Milanese, A. Erbetta, A. Boiardi, L. Fariselli, A. Salmaggi: Cisplatin and BCNU chemotherapy in primary glioblastoma patients. **J Neuro-oncol** (2009) Aug 94:57-62. IF 2.323
36. S.G.M. Piccirillo, R. Combi, L. Cajola, A. Patrizi, S. Radaelli, A. Bentivegna, B. Pollo, **F.DiMeco**, A.L Vescovi, L. Dalprà – Distinct Pools of cancer stem-cell like cells co-exist within human GMBs and display different tumorigenicity and independent genomic evolution. **Oncogene** (2009) Apr 28, 1807-1811. IF 7.216
37. **F.DiMeco**, K.W. Li, C. Casali, E. Ciceri, S. Giombini, G. Filippini, G. Broggi, C.L. Solero: Meningiomas invading the superior sagittal sinus: surgical experience in 108 cases. **Neurosurg** 2008 Jun; 62 (6 Suppl 3):1124-35. IF 3.398
38. Boiardi A., Silvani A, Eoli M., Lamperti E., Salmaggi A, Gaviani P, Fiumani A, Botturi A, Falcone C., Solari A., Filippini G., **F.DiMeco**, Broggi G. - Treatment of recurrent glioblastoma: can local delivery of mitoxantrone improve survival? **J Neurooncol.** 88(1):105-13., 2008. I.F. 2.323
39. Filippini G, Falcone C, Boiardi A, Broggi G, Bruzzone, Calderoli D, Farina R, Farinotti MA, Fariselli L, Finocchiaro G, Giombini S, Pollo B., Savoiano M, Solero CL, Valsecchi MG. Collaborators: Brock S, **F.DiMeco**, Dones I, Franzini A, Lasio G, Lodrini S, Bricchi M, Ferrazza C, Regi B, Eoli M, Lamperti E, Salmaggi A, Silvani A, Bizzi A, Farina L, Maccagnano E, Milanese I, Filippini G. Brain cancer Register of the Fondazione IRCCS (Istituto Ricovero e Cura a Carattere Scientifico) Istituto Neurologico Carlo Besta - Prognostic factors for survival in 676 consecutive patients with newly diagnosed primary glioblastoma. **Neuro Oncol.** 10(1):79-87, 2008 I.F. 5.000
40. Gessi M., Legnani F.G., Maderna E, Casali C., Solero C.L., Pollo B., **F.DiMeco**. Mucinous low-grade adenocarcinoma arising from an intracranial enterogenous cyst: case report. **Neurosurgery**, 62(4):972-973, 2008 I.F. 3.398
41. Piccirillo S.G.M., Reynolds B.A., Zanetti N., Lamorte G., Binda E., Broggi G., Brem H., Olivi A., **F.DiMeco**, Vescovi A.L Bone Morphogenetic Proteins Inhibit The Tumorigenic Potential of Human Brain Tumour-Initiating Cells. **Nature**, 444:761-765, 2006. IF 26.681
42. F.G.Legnani, G.Pradilla, Q.Thai, A.Fiorindi, P.F.Recinos, B.M.Tyler, S. M.Gaini, **F.DiMeco**, H.Brem, and A.Olivi. Lactacystin exhibits potent anti-tumor activity in an animal model of malignant glioma when administered via controlled-release polymers. **Neuro-Oncology**, 77:225-232, 2006. IF 4.939

43. P. Sampath, L.D. Rhines, **F.DiMeco**, B.M. Tyler, M.C. Park and Henry Brem. Interstitial Docetaxel (Taxotere), Carmustine and Combined Interstitial Therapy: a Novel Treatment for Experimental Malignant Glioma. **Neuro-Oncology**, Oct;80(1):9-17. 2006. IF 4.939
44. Ciceri EF, Regna-Gladin C, Erbetta A, Chiapparini L, Nappini S, Savoiardo M, **F.DiMeco** Iatrogenic intracranial pseudoaneurysms: neuroradiological and therapeutical considerations, including endovascular options. **Neurol Sci**. 2006 Nov;27(5):317-22. I.F. 0.894
45. G.Pradilla, F.G.Legnani, G.Petrangolini, P.Francescato, F.Chillemi, B.M.Tyler, S.M.Gaini, H.Brem, A.Olivi, **F.DiMeco** Local delivery of a synthetic endostatin fragment for the treatment of experimental gliomas. **Neurosurgery**, 2005, 57(5):1032-40. I.F. 2,587
46. A.Boiardi, M.Eoli, A.Salmaggi, E.Lamperti, A.Botturi, A.Solari, **F.DiMeco**, G.Broggi, A.Silvani. Local drug delivery in recurrent malignant gliomas. **Neurol Sci**. 2005 May; 26 Suppl 1:s37-9. IF 0.779
47. **F.DiMeco**, K.W. Li, C. Casali, E. Ciceri, S. Giombini, G. Filippini, G. Broggi, C.L. Solero: Meningiomas invading the superior sagittal sinus: surgical experience in 108 cases. **Neurosurg** 55:1263-1274, 2004. IF 2.517
48. R. Galli, E. Binda, U. Orfanelli, B. Cipelletti, A. Gritti, S. De Vitis, R. Fiocco, C. Foroni, **F.DiMeco**, and A. Vescovi: Isolation and characterization of tumorigenic, stem-like neural precursors from human glioblastoma. **Cancer Res** 64:7011-7021, 2004. IF 7.690
49. **F.DiMeco**, K.W.Li, C.Mendola, G.Cantu', C.L.Solero: Craniotomies without burr holes using an oscillating saw: technical note. **Acta Neurochir** 146:995-2001, 2004. IF 1.080
50. K.W.Li, E.Ciceri, G.Lasio, C.L.Solero, **F.DiMeco**. Shunt Migration into the Sphenoid Sinus: Case Report. **Neurosurg** 53: 441-443, 2003. IF 2.338
51. L.D.Rhines, P.Sampath, **F.DiMeco**, C. Lawson, B.M. Tyler, A. Olivi, D. Pardoll, J. Hanes, and H. Brem. Local immunotherapy with interleukin-2 delivered via biodegradable polymer microspheres combined with interstitial chemotherapy: a novel treatment for experimental malignant glioma. **Neurosurg** 52 (4):872-880, 2003. I.F. 2.338
52. Carson BS, Wu QZ,Tyler BM,Sukay L, Raychaudhuri R, **F.DiMeco**, Clatterbuck R, Olivi A, and Guarnieri M. New approaches to tumor therapy for inoperable areas of the brain: chronic intraparenchymal drug delivery. **J Neuro-Oncology** 60:151-158, 2002. IF 1.416
53. **F.DiMeco**, K.W.Li, B.M.Tyler, A.Wolfe, H.Brem, A.Olivi. Local delivery of mitoxantrone for the treatment of malignant brain tumors. **J Neurosurg** 97:1173-1178, 2002. IF 2,626
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SELECTION OF PODIUM PRESENTATIONS AND LECTURES

1. **F.DiMeco** "Treatment of established 9L gliosarcoma in rats using syngeneic cells engineered to secrete IL-12." Congress of Neurological Surgeons, Seattle, WA, Oct 3-8, 1998.
2. **F.DiMeco** "Paracrine delivery of IL-12 is effective in the treatment of intracranial 9L gliosarcoma in rats." The Society for Neuro-Oncology, San Francisco, CA, November 12-15, 1998.

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9. **F.DiMeco** “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
10. **F.DiMeco**: Interstitial delivery of antineoplastic agents via biodegradable polymers for the treatment of malignant gliomas. L.I.T.A. - C.N.R. Milan (Invited Speaker) 2001.
11. **F.DiMeco** “Total removal of meningiomas occluding the superior sagittal sinus without sinus replacement: considerations over a series of 27 patients.” 5th International Congress on Cerebral Venous System and Meningiomas – Istanbul, Turkey June-03-08, 2002.
12. **F.DiMeco**: Local delivery of antitumor agents via biodegradable polymers for the treatment of malignant brain tumors. XI Conferenza Pietro Paoletti “Delivering Drugs and Genes Directly to the Brain”. Pavia May 29, 2002 (Invited Speaker).
13. **F.DiMeco**: New local therapies: polymers, pellets, wafers etc. Workshop: advances in glioma treatment. XVth Congress of the European Society for Stereotactic and Functional Neurosurgery, Toulouse – France 9-12 October 2002 (Invited Speaker).
14. **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. CNS Annual Meeting, San Francisco, CA, 18th November 2004 (Invited Speaker).
15. **F.DiMeco**: Human, tumor-founding neural stem cells and tumor stem cell lines for the diagnosis and therapy of glioblastomas, Second Quadriennial Meeting of the World Federation of Neuro-oncology and Sixth Meeting of the European Association for Neuro-oncology, Edinburgh, U.K., May 5-8, 2005
16. **F.DiMeco** Tumors: from research to therapy. 54th National Meeting of the Italian Society of Neurological Surgeons (SINch) Turin, Italy, 14-17 December 2005 (Invited Speaker)
17. **F.DiMeco** Surgical treatment of spine metastases. Winter Meeting of the Italian Society of Neurological Surgeons (SINch) Rome, Italy, 2-4 February 2006 (Invited Speaker)
18. **F.DiMeco** Neural stem cells: from therapeutic vector to therapeutic target. Neurosurgical Department, Md. Anderson, Houston, 13 October 2006 (Invited Speaker)
19. **F.DiMeco** SWC European Primary Sales School: Neurosurgery Anatomy & Major Surgical Intervention. Nordstedt March 5-6, 2007 (Invited Speaker)
20. **F.DiMeco** Brain Tumor Satellite Symposium of the AANS Annual Meeting. The effect of hospital volume on outcomes for resection of brain tumors in Italy. Washington DC April 2007 (Invited Speaker)
21. **F.DiMeco** Neuromed Meetings: New Treatment Modalities for Brain Gliomas Pozzilli, May 5, 2007 (Invited Speaker)
22. **F.DiMeco** SWC European Primary Sales School. Neurosurgery Anatomy & Major Surgical Interventions. Hamburg June 18-19, 2007 (Invited Speaker)
23. **F.DiMeco** 2nd International Meeting Updates in Neuro-oncology. Cortona June 28, 2007 (Speaker & Organizer)
24. **F.DiMeco** SWC European Primary Sales School. Neurosurgery Anatomy & Major Surgical Interventions. Norderstedt July 23-27, 2007 (Invited Speaker)

25. **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? Milan, 19 January 2008.
26. **F.DiMeco** 76th Annual Meeting of the American Association of Neurological Surgeons (AANS) Brain Tumor Stem Cells (BTSC): a Paradigm Shift in Brain Tumor Research and Therapy, Chicago 2008 (Invited Speaker).
27. **F.DiMeco** International Congress "New Diagnostic and Therapeutic Approaches in Neuro-Oncology - Naples 14-16 April 2008 (Invited Speaker)
28. **F.DiMeco** 59th Annual Meeting of the German Society of Neurosurgery, 3. Joint Meeting with the Italian Society of Neurosurgery, Würzburg 2008.
29. **F.DiMeco** Loco-regional therapies. Neuromed Meetings, the Methastasis of the Nervous System. Pozzilli 2008 (Invited Speaker)
30. **F.DiMeco** Orchestra Workshop on Brain Cancer. Presentation and discussion on the neuro-oncological clinical cases. Rome 2008, (Invited Speaker)
31. **F.DiMeco** Baltimore Seventh Annual Neuro-Oncology Updates. A Paradigm Shift in Neuro-Oncology the Brain Tumor Stem cells (BTSC) Story. Baltimore 18-19 September, 2008 (Invited Speaker)
32. **F.DiMeco** Orchestra Workshop on Brain Cancer. Presentation and discussion on the neuro-oncological clinical cases. Milan September 25th 2008. (Invited Speaker)
33. **F.DiMeco** “Stages in Neuro-oncology, 5th National Theoretical and Practical Course. Stem cells, what new perspectives? Turin 23-27 September 2008 (Invited Speaker).
34. **F.DiMeco** “XVIII Congress of European Society of Stereotactic and Functional neurosurgery EFFSN”. “Locoregional Therapy of Malignant Brain Gliomas”. Rimini 5-8 October 2008 (Invited Speaker)
35. **F.DiMeco** Orchestra Workshop on Brain Cancer. Integration between experimental research activity and clinical practice: organizational models in neurosurgery. Rome 24 October 2008 (Invited Speaker)
36. **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)
37. **F.DiMeco** 57th National SINCH Congress The management of High Grade Gliomas, present situation and future perspectives. Udine November 6-8, 2008. (Moderator)
38. **F.DiMeco** 57th National SINCH Congress. Experiences of Working Groups. Udine November 6-8, 2008 (Moderator)
39. **F.DiMeco** 3rd Forum Risk Management 2008. New Methodologies for the Treatment of Tumors. Arezzo November 25-28, 2008 (Invited Speaker).
40. **F.DiMeco** AANS Annual Meeting Malignant Brain Tumors. State of the Art Treatment. San Diego May 2-6, 2009. (Panelist)
41. **F.DiMeco** XXIII Corso di Aggiornamento per Giovani Neurochirurghi “Cancer Stem cells” and new therapy perspectives. Pomezia July 19-21, 2009. (Invited Speaker)
42. **F.DiMeco** XIV World Congress of Neurological Surgery AANS/WFNS 051 Brain Tumors and Stem Cells: Oncogenesis and Therapy. Boston, August 30th - September 4th, 2009 (GS Speaker)
43. **F.DiMeco** XIV World Congress of Neurological Surgery AANS/WFNS: 818 Controversial Cases in Neuro-Oncology: Ask the Experts; Boston August 30th -September 4th, 2009 (GS Speaker and Moderator)
44. **F.DiMeco** 58th National SINch Congress - Entities of Posterior Fossa High Grade Gliomas in Adults: brain-stem, cerebellar, an cerebellar extention of supratentorial gliomas, Z.Ram. Lecce October 14-17, 2009 (Invited Speaker)
45. **F.DiMeco** Neurooncologia 2010: State of the art and future perspectives. Loco-regional therapy with carmustine: pro. Milan February 13th, 2010 (Invited Speaker)
46. **F.DiMeco** Stages in Neuro-Oncologia VI National Course. Update on Stem Cells. Turin February 25-27, 2010 (Invited Speaker)
47. **F.DiMeco** FOCUS Updates in Neurosurgery. Surgical management of parasagittal meningiomas invading the sinus. Milan’s Polyclinic April 8th, 2010 (Invited Speaker)
48. **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. Taormina April 15th-17th, 2010 (Invited Speaker)

49. **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 Milan April 21, 2010 (Invited Speaker)
50. **F.DiMeco** 2010 AANS Annual Meeting. 115 Malignant Brain Tumors: State of The Art Treatment. Philadelphia, May 1-5, 2010 (Panelist)
51. **F.DiMeco** FOCUS Updates in Neurosurgery - GMB Cancer Stem Cells: Quali Prospettive. (Invited Speaker) Milan's Polyclinic June 17th, 2010 (Invited Speaker)
52. **F.DiMeco** EANS TRAINING COURSE, TUMOUR - Molecular Biology of Brain Tumours - Recent experimental protocols in gliomas. Halkidiki, Greece September 26th/30th, 2010.
53. **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. Milan, October 8–9, 2010
54. **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. Milan October 27th/30th, 2010. (Invited Speaker and Moderator)
55. **F.DiMeco** Management of high grade gliomas in elderly people – the patient with high neurosurgical risk – Surgical risk in neuro-oncology Milan, January 29th 2011 Refresher Course (Invited Speaker and Moderator)
56. **F.DiMeco** Medical and surgical therapy in brain gliomas - Surgical techniques and complications. Varese, May 24th 2011 (Invited Speaker)
57. **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. 60th SINch national congress, Florence, June 5th–7th 2011
58. **F.DiMeco** Significance of hospital activity volumes on the outcome of brain tumour surgery in Italy – Breakfast meeting: Medulloblastoma. XVI AINO national Congress -Milan November 3rd – 5th 2011 (Invited Speaker and Moderator)
59. **F.DiMeco** Human factor and simulation: a practical example Forum Risk Management Arezzo Novembre 22nd -28th 2011
60. **F.DiMeco** Surgical strategy for malignant secondary tumours in elderly people - Neuro-oncological problems in elderly patients. Milan December 2nd 2011
61. **F.DiMeco** Molecular Biology of Brain Tumors - Eans training Course Pecs, Hungary, February 26th 2012
62. **F.DiMeco** Bipolar Coagulation and Cutting. Wetlab Sessions. Rotterdam, Netherlands, March 6th 2012
63. **F.DiMeco** Updates on Stem Cells. Stages in Neuro-Oncologia 8th Hands-On Course - Turin April 12th 2012
64. **F.DiMeco** Flight and health service safety: analogies and opportunities - 12th AIIC National Congress L'Aquila April 19th 2012
65. **F.DiMeco** AuditDay 2012 Centro Cardiologico. Monzino: Specialist Clinical Audit - Records in Neurosurgery Milan, June 19th 2012
66. **F.DiMeco** Safety and Simulation in the Operating Room - Comlas 11th National Congress, Siena October 6th 2012
67. **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" Arezzo, January 25th 2013 (Invited Speaker)
68. **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 Antalya, Turkey March 15th -19th 2013 (Lecturer)
69. **F.DiMeco** 81st AANS Annual Scientific Meeting - New Orleans, Louisiana, April 27-May 1 2013

70. **F. DiMeco** “Clinical Experiences in Neurosurgery” at Johnson & Johnson Medical “Flowable Experience” Meeting – June 19, 2013 in Copenhagen, Denmark
71. **F. DiMeco.** “Treatments 1: Advances in Neurosurgery” at Accademia Nazionale di Medicina Glioblastoma 2013 Meeting – June 21, 2013 in Milan, Italy
72. **F. DiMeco** “Panel Discussion and Conclusions” speaker and organizer at “Brain mapping in surgery” Symposium – July 3, 2013 in Milan, Italy
73. **F. DiMeco** Speaker at Swiss Italian Neuro Oncology Meeting 2013 – September 5-7, 2013 in Lugano, Switzerland
74. **F. DiMeco** 15th WFNS World Congress of Neurosurgery – September 8-13, 2013 in Seoul, Korea
75. **F. DiMeco** Provisional Faculty and Moderator: “Malignant Tumors” at Updates in Geriatric Neurosurgery: 1st International Congress – October 5-7, 2013 in Castagneto Carducci, Italy
76. **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
77. **F. DiMeco** Moderator at 62° Congresso Nazionale SINCh – October 10-12, 2013 in Palermo, Italy
78. **F. DiMeco** Appointed Scientific Committee Member and lecturer at EANS Annual Meeting 2013 due in Tel Aviv November 11th/14th 2013
79. **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
80. **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
81. **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
82. **F. DiMeco.** “Risultati dello Studio SIGMA” at Il Glioblastoma Aggiornamenti Sulle Nuove Terapie – April 15, 2014 in Milan, Italy
83. **F. DiMeco.** “Passato, Presente, e futuro della neurochirurgia del Besta” and “Nuove frontiere tecnologiche in neurochirurgia” – May 12-14, 2014 in Milan, Italy
84. **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
85. **F. DiMeco** Moderator: “Management of Tissue (Sealing) and CSF Leaks in Neurosurgery” at Neurosurgery Advisory Board meeting – June 27, 2014 in Zurich, Switzerland
86. **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
87. **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
88. **F. DiMeco.** Co-Director of 13th Annual International Neuro-oncology Updates and presentation “Intraoperative Ultrasound” – September 4-5, 2014 in Boston, USA
89. **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.
90. **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.
91. **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.
92. **F. DiMeco.** Scientific Committee. 9° Forum Risk Management in Sanità – November 25-28, 2014 in Arezzo, Italy
93. **F. DiMeco.** “The use of enhanced ultrasound in intra-operative LGG detection.” Future Concepts and Strategies for Glioma Surgery – December 12-13, 2014 in Adelboden, Switzerland.
94. **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.

95. **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.
96. **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.
97. **F.DiMeco.** National Neurosurgery Convention. “State of the art and new therapeutic perspectives in Glioblastoma”. Novara, Italy, May 19, 2015. (Moderator)
98. **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.
99. **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.

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

