

# CURRICULUM VITAE

## MORGAN ALDO BROGGI

### ➤ Formazione e titoli di studio

- 1999**      *Diploma di Maturità* presso il Liceo Classico “Istituto Leone XIII” di Milano.
- 1999-2005**    **Università degli Studi di Milano**  
*Diploma di Laurea in Medicina e chirurgia*  
**27/07/2005:** Tesi finale: “Terapia locoregionale intraoperatoria nei gliomi cerebrali: studio sperimentale e clinico di tossicità dei chemioterapici”.  
Voto: 110/110 cum laude et publicationis dignitate
- 2005-2010**    **Università degli Studi di Milano**  
*Scuola di specializzazione in NEUROCHIRURGIA*
- **2005-2007: Dipartimento di Scienze Neurologiche, U.O. di Neurochirurgia**  
**Università degli Studi di Milano**  
*Scuola di Specializzazione in Neurochirurgia, 1°-2° anno*
- **2008: Dipartimento di Neurochirurgia, U.O. di Neurochirurgia III, Fondazione IRCCS Istituto Neurologico Carlo Besta,**  
*Scuola di Specializzazione in Neurochirurgia, 3°anno*
- **2009: Centre for Minimally Invasive Neurosurgery, Prince of Wales Private Hospital, Sydney, Australia**  
*Clinical fellowship nel corso del 4° anno della Scuola di Specializzazione in Neurochirurgia*
- **2010: Dipartimento di Neurochirurgia, U.O. di Neurochirurgia III, Fondazione IRCCS Istituto Neurologico Carlo Besta,**  
*Scuola di Specializzazione in Neurochirurgia, 5°anno*
- 11/11/2010**    *Diploma di Specializzazione in NEUROCHIRURGIA,*  
**Università degli Studi di Milano**  
Tesi finale: “L’approccio sovraorbitario sopraciliare: anatomia e clinica”.  
Voto: 70/70 e lode
- 2011-2013**    **Università degli Studi di Milano**  
*Dottorato in scienze fisiopatologiche, neuropsicobiologiche e assistenziali del ciclo della vita*  
**10/03/2014:** Tesi finale: “Fluorescein-guided surgery for resection of malignant gliomas”.

➤ Attività professionale

**01/11/2010-30/04/2011**

*Contratto semestrale di collaborazione coordinata e continuativa presso Dipartimento di Neurochirurgia, U.O. di Neurochirurgia III, Fondazione IRCCS Istituto Neurologico Carlo Besta.*

*Ambito di ricerca:* Sviluppo della neurochirurgia guidata da immagini.

**01/05/2011-13/04/2014**

*Contratti annuali di collaborazione coordinata e continuativa presso Dipartimento di Neurochirurgia, U.O. di Neurochirurgia III, Fondazione IRCCS Istituto Neurologico Carlo Besta.*

*Ambito di ricerca:* Diagnosi, trattamento e follow-up di pazienti affetti da idrocefalo normoteso associato a parkinsonismo.

**14/04/2014-31/01/2015**

*Contratto a tempo determinato di Dirigente Medico presso Dipartimento di Neurochirurgia, U.O. di Neurochirurgia II, Fondazione IRCCS Istituto Neurologico Carlo Besta.*

**17/02/2015-31/05/2015**

*Contratto di collaborazione coordinata e continuativa presso Dipartimento di Neurochirurgia, U.O. di Neurochirurgia II, Fondazione IRCCS Istituto Neurologico Carlo Besta.*

*Ambito di ricerca:* Diagnosi, trattamento e follow-up di pazienti affetti da aneurisma cerebrale.

**01/06/2015-31/08/2015**

*Contratto di collaborazione coordinata e continuativa presso Dipartimento di Neurochirurgia, U.O. di Neurochirurgia II, Fondazione IRCCS Istituto Neurologico Carlo Besta.*

*Ambito di ricerca:* classificazione e analisi delle complicanze in neurochirurgia.

**01/09/2015-ad oggi**

*Contratto a tempo indeterminato di Dirigente Medico presso Dipartimento di Neurochirurgia, U.O. di Neurochirurgia II, Fondazione IRCCS Istituto Neurologico Carlo Besta.*

➤ Curriculum chirurgico

**2005-2021**    1000 interventi chirurgici come primo operatore  
                  2500 interventi chirurgici come assistente (secondo o terzo operatore)

L'attività chirurgica è consistita principalmente nella neurochirurgia oncologica e vascolare mininvasiva guidata da immagini con ausilio di tecniche di visualizzazione fluorescente (verde indocianina e fluoresceina) e di misurazione del flusso ematico cerebrale, nella neurochirurgia

endoscopica e del basicranio, nella patologia degenerativa del rachide e nel trattamento chirurgico dell'idrocefalo.

### ➤ **Certificazioni**

- 15/02/2006      **Abilitazione all'esercizio della professione di Medico chirurgo** presso l'Università degli Studi di Milano nella seconda sessione dell'anno 2005.
- 27/02/2006      **Iscrizione all'Albo dei Medici Chirurghi e Odontoiatri di Milano**, numero 39997.
- 23/02/2014      **Completamento della parte 1 dell'esame in Neurochirurgia della Società Europea di Neurochirurgia (EANS).**
- 31/10/2018      **Abilitazione Scientifica Nazionale:** abilitazione alla docenza di II fascia.

### ➤ **Memberships di associazioni**

- Società Italiana di Neurochirurgia (SINch), dal 2011
- Congress of Neurological Surgeons (CNS), dal 2012
- International Society of Minimally Invasive Neurosurgery (ISMINS), dal 2012
- European Association of Neurosurgical Societies (EANS), dal 2013
- Hydrocephalus Society, dal 2021

### ➤ **Lingue straniere**

INGLESE: buona padronanza del linguaggio (IELTS certificate, voto: 7,5/9, 2009)  
SPAGNOLO: buona padronanza del linguaggio (DELE, Nivel intermedio, 2004)

### ➤ **Attività di ricerca**

L'attività di ricerca si è concentrata principalmente nella neurochirurgia oncologica e vascolare mininvasiva guidata da immagini con ausilio di tecniche di visualizzazione fluorescente (verde indocianina e fluoresceina) e di misurazione del flusso ematico cerebrale, nella neurochirurgia endoscopica e del basicranio e nel trattamento chirurgico dell'idrocefalo.

Tale attività si è inoltre avvalsa dei seguenti periodi di dissezione in laboratorio anatomico:

**22/03/'10 – 26/03/'10:** *Study Group of Microsurgical and Endoscopic Anatomy – Center of Anatomy and Cellular Biology, Medical University, Vienna, Austria*

**28/05/'07 – 01/06/'07:** *Study Group of Microsurgical and Endoscopic Anatomy – Center of Anatomy and Cellular Biology, Medical University, Vienna, Austria*

**31/01/'07 – 03/02/'07:** *Study Group of Microsurgical and Endoscopic Anatomy – Center of Anatomy and Cellular Biology, Medical University, Vienna, Austria*

**13/11/'06 – 15/11/'06:** *Study Group of Microsurgical and Endoscopic Anatomy – Center of Anatomy and Cellular Biology, Medical University, Vienna, Austria*

➤ **Corsi e Congressi**

**19-21/10/2020** *EANS congress, virtual congress*  
**14-15/10/2020** *69° Congresso Nazionale SINCH, virtual congress*  
**20-22/11/2019** *Codman hydrocephalus education course, Le Locle, Svizzera*  
**30/10/2019** *Integra/Codman Liquoguard training neurosession, Rozzano (Mi), Italy*  
**24-28/09/2019** *EANS congress, Dublino, Irlanda*  
**16-18/09/2019** *68° Congresso Nazionale SINCH, Roma*  
**05-06/04/2019** *Memorial Gangemi, Napoli*  
**25-27/01/2019** *2<sup>nd</sup> International conference on complications in neurosurgery, Bombay, India*  
**21-25/10/2018** *EANS congress, Bruxelles, Belgio*  
**27-28/09/2018** *Towards the future of brain research; Besta young researchers' international conference, Milano*  
**19-21/09/2018** *67° Congresso Nazionale SINCH, Ancona*  
**12/07/2018** *2<sup>nd</sup> meeting of the European fluorescein network, Istanbul, Turchia*  
**16/03/2018** *1<sup>st</sup> meeting of the European fluorescein network, Regensburg, Germania*  
**1-5/10/2017** *EANS congress, Venezia*  
**15-18/05/2016** *Endochicago, 7° world congress for endoscopic surgery of the skull base and brain, Chicago, USA*  
**30/04-04/05/2016** *84° Annual AANS Meeting, Chicago, USA*  
**10-12/03/2016** *Corso di dissezione: approcci laterali al basicranio medio e posteriore, Torino*  
**06/11/2015** *Idoneità al pilotaggio: modelli di gestione integrate dei casi complessi, Milano*  
**3-4/11/2015** *Normal pressure hydrocephalus (NPH) course, Berlino, Germania*  
**8-12/09/2015** *15<sup>th</sup> WFNS interim meeting, Roma*  
**15-17/01/2015** *Corso di dissezione: approcci alla fossa cranica posteriore, Torino*  
**25-27/09/2014** *61° Congresso Nazionale SINCH, Vicenza*  
**14-17/04/2014** *Endomilano, 6° world congress for endoscopic surgery of the brain, skull base and spine and second global update on FESS, the sinuses and the nose, Milano*  
**5-8/04/2014** *82th Annual AANS Meeting, San Francisco, USA*  
**28/03/2014** *Neuro Highlights: spinal vascular malformations, live surgery and update, Milano*  
**19-21/03/2014** *Corso di dissezione: approcci al basicranio anteriore, Torino*  
**21-26/10/2013** *Progetto formativo Sinch-Codman presso UO Neurochirurgia, Ospedale San Salvatore, L'Aquila*  
**07-13/09/2013** *25<sup>th</sup> WFNS congress, Seoul, South Korea*  
**07/06/2013** *Disturbi del Movimento: terapia conservativa e terapia chirurgica, Milano*  
**01/03/2013** *Advances in surgical treatment of sellar and parasellar neoplastic lesions, Lugano, Svizzera*  
**24-28/02/2013** *EANS Training course on Head Injury and Functional Neurosurgery, Cracovia, Polonia*  
**8-10/11/2012** *Corso base di microchirurgia, Monza*  
**11-14/10/2012** *61° Congresso Nazionale SINCH, Rimini*  
**06-10/10/2012** *62<sup>th</sup> Annual meeting CNS, Chicago, USA*  
**20-23/03/2012** *1<sup>st</sup> ISMINS international congress, Firenze*  
**1-2/12/2011** *Master class in endoscopic anterior skull base surgery, Boston, USA*  
**10-14/10/2011** *XIV° congresso EANS, Roma*

**30/06-02/07/2011** XIV° corso italiano di microneurochirurgia applicata: approcci al basicranio, L'Aquila  
**9-13/04/2011** 79° Annual AANS Meeting, Denver, USA  
**20-24/02/2011** EANS Training course on Vascular Neurosurgery, Tallinn, Estonia  
**27-30/10/2010** 59° Congresso Nazionale SINCH, Milano  
**29-30/04/2010** Idrocefalo. Update 2010. Torino  
**15-17/04/2010** 2<sup>nd</sup> meeting on Neurosurgical Tips & Tricks, Taormina (Messina)  
**15/03/2010** Fratture vertebrali, Istituto Ortopedico Galeazzi, Milano  
**07-11/02/2010** EANS Training course on Spine and peripheral nerve, Padova  
**25-29/10/2009** 59<sup>th</sup> Annual meeting CNS, New Orleans, USA  
**14-17/10/2009** 58° Congresso Nazionale SINCH, Lecce  
**5-7/03/2009** Australian Advanced intracranial endoscopy course, Sydney, Australia  
**15-17/10/2008** 3° corso di chirurgia in diretta degli aneurismi cerebrali, Modena  
**20-25/09/2008** 58<sup>th</sup> Annual meeting CNS, Orlando, USA  
**06-12/09/2008** EANS Training course on Tumors, Antwerp, Belgium  
**06/09/2008** Hands-on course: basic drilling technique, Antwerp, Belgium  
**05-08/06/2008** 3<sup>rd</sup> international hands-on course on endoscopic and microscopic microsurgery of the skull base: techniques, combined approaches and operations, Nice, France  
**01-04/06/2008** 59<sup>th</sup> annual meeting of the German Society of Neurosurgery (DGNC), Wurzburg, Germany  
**25-26/01/2008** Trattamento delle lesioni del nervo facciale, Milano  
**18-19/01/2008** Workshop chirurgico: nevralgia trigeminale ed emispasmo facciale: "hands-on" su preparati anatomici, Torino  
**15/12/2007** Focus on brain tumors, Milano, Italia  
**10/11/2007** Traumatologia cranio maxillo facciale, Bergamo  
**24-26/06/2007** 56° Congresso Nazionale SINCH, Roma  
**23/06/2007** Corso pratico pre-congresso: "Approcci craniotomici su preparati anatomici", 56° Congresso Nazionale SINCH, Roma  
**4/05/2007**: Live Surgery Workshop: "Videoflurangiografia intraoperatoria con Indocianina verde", Milano  
**23-25/03/2007**: Biennial International "Milano Masterclass": "Sinonasal and Skull Base Endoscopic Microsurgery", Milano  
**22/03/2007**: Aspetti multidisciplinari nel trattamento endoscopico delle lesioni del basicranio: a che punto siamo?, Cervolina (PV)  
**16-17/01/2007** Corso AO spine: "Stabilizzazione cervicale e toraco-lombare", Milano  
**15/12/2006** Epilessia tumorale: un problema ancora aperto, Milano  
**30/11/2006** Trauma cranici e le lesioni associate, Varese  
**19-20/10/2006** 1° corso di chirurgia in diretta degli aneurismi cerebrali, Modena  
**07-12/10/2006** 56<sup>th</sup> Annual meeting CNS, Chicago, USA  
**18/09/2006** Lesioni espansive spinali: nuovi percorsi terapeutici, Milano  
**10/04/2006** Il trattamento chirurgico della Sindrome di Tourette e oltre, Milano  
**15-17/12/2005**: 54° Congresso Nazionale SINCH, Torino  
**13-14/12/2005**: Corso pratico pre-congresso: "Dissezione dell'osso temporale", 54° Congresso Nazionale SINCH, Torino  
**08-13/10/2005** 55<sup>th</sup> Annual meeting CNS, Boston, USA  
**21-24/11/2004**: 53° Congresso Nazionale SINCH, Milano

➤ **Bibliografia**

#### A) Pubblicazioni di articoli:

1. *Characteristics of Moyamoya Disease in the Older Population: Is It Possible to Define a Typical Presentation and Optimal Therapeutical Management?*  
Vetrano IG, Bersano A, Canavero I, Restelli F, Raccuia G, Ciceri EF, Faragò G, Gioppo A, Broggi M, Schiariti M, Gatti L, Ferroli P, Acerbi F.  
**J Clin Med.** 2021 May 25;10(11):2287. doi: 10.3390/jcm10112287
2. *Confocal Laser Microscopy in Neurosurgery: State of the Art of Actual Clinical Applications.*  
Restelli F, Pollo B, Vetrano IG, Cabras S, Broggi M, Schiariti M, Falco J, de Laurentis C, Raccuia G, Ferroli P, Acerbi F.  
**J Clin Med.** 2021 May 10;10(9):2035. doi: 10.3390/jcm10092035
3. *In Silico Mathematical Modelling for Glioblastoma: A Critical Review and a Patient-Specific Case.*  
Falco J, Agosti A, Vetrano IG, Bizzi A, Restelli F, Broggi M, Schiariti M, DiMeco F, Ferroli P, Ciarletta P, Acerbi F  
**J Clin Med.** 2021 May 17;10(10):2169. doi: 10.3390/jcm10102169.
4. *Brain Tumor Resection in Elderly Patients: Potential Factors of Postoperative Worsening in a Predictive Outcome Model.*  
Ferroli P, Vetrano IG, Schiavolin S, Acerbi F, Zattra CM, Schiariti M, Leonardi M, Broggi M.  
**Cancers (Basel).** 2021 May 12;13(10):2320. doi: 10.3390/cancers13102320
5. *Commentary: Microsurgical Resection of a Pontine Cavernoma Using an Expanded Retrosigmoid Corridor: 2-Dimensional Operative Video*  
Broggi M, Zattra CM, Schiariti M  
**Oper Neurosurg (Hagerstown).** 2021 Jul 15;21(2):E155-E156. doi: 10.1093/ons/opab159
6. *Adverse Events in Neurosurgery: The Novel Therapy-Disability-Neurology Grade.*  
Terrapon APR, Zattra CM, Voglis S, Velz J, Vasella F, Akeret K, Held U, Schiavolin S, Bozinov O, Ferroli P, Broggi M, Sarnthein J, Regli L, Neidert MC.  
**Neurosurgery.** 2021 Jul 15;89(2):236-245. doi: 10.1093/neuros/nyab121
7. *The Frontal Aslant Tract: A Systematic Review for Neurosurgical Applications.*  
La Corte E, Eldahaby D, Greco E, Aquino D, Bertolini G, Levi V, Ottenhausen M, Demichelis G, Romito LM, Acerbi F, Broggi M, Schiariti MP, Ferroli P, Bruzzone MG, Serrao G  
**Front Neurol.** 2021 Feb 24;12:641586. doi: 10.3389/fneur.2021.641586. eCollection 2021
8. *Commentary: Outcome of Endoscope-Assisted Microvascular Decompression in Patients With Hemifacial Spasm Caused by Severe Indentation of the Brain Stem at the Pontomedullary Sulcus by the Posterior Inferior Cerebellar Artery.*  
Broggi M, Zattra CM, Ferroli P  
**Oper Neurosurg (Hagerstown).** 2021 May 13;20(6):E408-E409. doi: 10.1093/ons/opab073.

9. *Characteristics of Patients Returning to Work After Brain Tumor Surgery.*  
Schiavolin S, Mariniello A, Broggi M, Acerbi F, Schiariti M, Franzini A, Di Meco F, Ferroli P, Leonardi M.  
**Front Hum Neurosci.** 2021 Feb 3;14:609080. doi: 10.3389/fnhum.2020.609080. eCollection 2020.
  
10. *Ex Vivo Fluorescein-Assisted Confocal Laser Endomicroscopy (CONVIVO® System) in Patients With Glioblastoma: Results From a Prospective Study.*  
Acerbi F, Pollo B, De Laurentis C, Restelli F, Falco J, Vetrano IG, Broggi M, Schiariti M, Tramacere I, Ferroli P, DiMeco F  
**Front Oncol.** 2020 Dec 23;10:606574. doi: 10.3389/fonc.2020.606574. eCollection 2020.
  
11. *Commentary: Microsurgical and Tractographic Anatomical Study of Transtemporal-Transchoroidal Fissure Approaches to the Ambient Cistern.*  
Zattra CM, La Corte E, Broggi M.  
**Oper Neurosurg (Hagerstown).** 2021 Feb;20(3):E241-242. doi: 10.1093/ons/opaa386.
  
12. *Commentary: Risk of Brain Herniation After Craniotomy With Preoperative Lumbar Spinal Drainage: A Single-Surgeon Experience of 365 Patients Among 3000 Major Cranial Cases.*  
Broggi M, Zattra CM, Ferroli P.  
**Oper Neurosurg (Hagerstown).** 2021 Jan 13;20(2):E83-E84. doi: 10.1093/ons/opaa34805.282
  
13. *In Reply to Letter to the Editor Regarding 'Diagnosis of Ventriculoperitoneal Shunt Malfunction: A Practical Algorithm'.*  
Broggi M, Ferroli P, Broggi G.  
**World Neurosurg.** 2020 Aug;140:456. doi: 10.1016/j.wneu.2020.05.282
  
14. *In Reply to the Letter to the Editor Regarding "Normal Pressure Hydrocephalus and Parkinsonism: Preliminary Data on Neurosurgical and Neurological Treatment".*  
Broggi M, Tringali G.  
**World Neurosurg.** 2020 Aug;140:436. doi: 10.1016/j.wneu.2020.05.074
  
15. *Long lasting hypercoagulability after subclinical COVID-19.*  
Ferroli P, Villa C, Ciuffi A, Gubertini G, Broggi M.  
**J Thromb Thrombolysis.** 2020 Nov;50(4):822-824. doi: 10.1007/s11239-020-02215-3.
  
16. *Commentary: Endoscopic Endonasal Resection-Olfactory Groove Meningioma: 2-Dimensional Operative Video.*  
Broggi M, Restelli F, Zattra CM, Schiariti M.  
**Oper Neurosurg (Hagerstown).** 2020 Oct 15;19(5):E528-E529. doi: 10.1093/ons/opaa241.
  
17. *Lighting Up the Tumor-Fluorescein-Guided Resection of Gangliogliomas.* Höhne J, Acerbi F, Falco J, Akçakaya MO, Schmidt NO, Kiris T, de Laurentis C, Ferroli P, Broggi M, Schebesch KM.  
**J Clin Med.** 2020 Jul 28;9(8):E2405. doi: 10.3390/jcm9082405.
  
18. *In Situ Side-to-Side Pericallosal-Pericallosal Artery and Callosomarginal-Callosomarginal Artery Bypasses for Complex Distal Anterior Cerebral Artery Aneurysms: A Technical Note.*

- Acerbi F, Vetrano IG, Falco J, Gioppo A, Ciuffi A, Ziliani V, Schiariti M, Broggi M, Faragò G, Ferroli P  
**Oper Neurosurg** (Hagerstown). 2020 15 Oct;19(5):E487-E495. doi: 10.1093/ons/opaa236.
19. *Letter to the Editor. The COVID-19 pandemic in Singapore.*  
 Schiariti M, Restelli F, Broggi M, Acerbi F, Vetrano IG, Ciuffi A, Raccuia G, Ferroli P  
**J Neurosurg**. 2020 Oct;133:1277-8. doi: 10.3171/2020.4.JNS201436. Online ahead of print.
20. *Development and external validation of a clinical prediction model for functional impairment after intracranial tumor surgery.*  
 Staartjes VE, Broggi M, Zattra CM, Vasella F, Velz J, Schiavolin S, Serra C, Bartek J Jr, Fletcher-Sandersjö A, Förander P, Kalasauskas D, Renovanz M, Ringel F, Brawanski KR, Kerschbaumer J, Freyschlag CF, Jakola AS, Sjøvik K, Solheim O, Schatlo B, Sachkova A, Bock HC, Hussein A, Rohde V, Broekman MLD, Nogarede CO, Lemmens CMC, Kernbach JM, Neuloh G, Bozinov O, Krayenbühl N, Sarnthein J, Ferroli P, Regli L, Stienen MN, FEBNS.  
**J Neurosurg**. 2020 Jun 12:1-8. doi: 10.3171/2020.4.JNS20643 [Epub ahead of print].
21. *Commentary: Symptomatic Primary Tethered Optic Chiasm: Technical Case Report.*  
 Vetrano IG, Broggi M, Acerbi F.  
**Oper Neurosurg** (Hagerstown). 2020 Sep 15;19(4):E446-E447.
22. *In Reply: The Coronavirus Disease 2019 Global Pandemic: A Neurosurgical Treatment Algorithm.*  
 Schiariti M, Restelli F, Broggi M, Acerbi F, Ferroli P.  
**Neurosurgery**. 2020 Aug 1;87(2):E216-E217. doi: 10.1093/neuros/nyaa178.
23. *Outcome prediction in brain tumor surgery: a literature review on the influence of nonmedical factors.*  
 Schiavolin S, Raggi A, Scaratti C, Toppo C, Silvaggi F, Sattin D, Broggi M, Ferroli P, Leonardi M.  
**Neurosurg Rev**. 2021 Apr;44(2):807-8019 doi: 10.1007/s10143-020-01289.
24. *Commentary: Novel Use of Stimulating Fence-Post Technique for Functional Mapping of Subcortical White Matter During Tumor Resection: A Technical Case Series.*  
Broggi M, Zattra CM, Tringali G, Acerbi F.  
**Oper Neurosurg** (Hagerstown). 2020 Sep 1;19(3):E222-E223. doi: 10.1093/ons/opaa111.
25. *Global Perspectives on Task Shifting and Task Sharing in Neurosurgery.* Robertson FC, Esene IN, Koliass AG, Khan T, Rosseau G, Gormley WB, Park KB, Broekman MLD; Global Neurosurgery Survey Collaborators  
**World Neurosurg X**. 2019 Sep 9;6:100060.doi:10.1016/j.wnsx.2019.100060. eCollection 2020 Apr.
26. *Diagnosis of Ventriculoperitoneal Shunt Malfunction: A Practical Algorithm.*  
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27. *Peri-operative prognostic factors for primary skull base chordomas: results from a single-center cohort.*  
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**Acta Neurochir (Wien).** 2021 Mar;163(3):689-697 doi: 10.1007/s00701-020-04219-7.
28. *In reply to the Letter to the Editor Regarding "Fluorescein Sodium in the Surgical Treatment of Recurrent Glioblastoma Multiforme".*  
Höhne J, Schebesch KM, de Laurentis C, Akçakaya MO, Pedersen CB, Brawanski A, Poulsen FR, Kiris T, Cavallo C, Broggi M, Ferroli P, Acerbi F  
**World Neurosurg.** 2019 Aug;128:617
29. *Long and Very-Long-Chain Ceramides Correlate with A More Aggressive Behavior in Skull Base Chordoma Patients.*  
La Corte E, Dei Cas M, Raggi A, Patanè M, Broggi M, Schiavolin S, Calatozzolo C, Pollo B, Pipolo C, Bruzzone MG, Campisi G, Paroni R, Ghidoni R, Ferroli P.  
**Int J Mol Sci.** 2019 Sep 11;20(18). pii: E4480
30. *Fluorescein Application in Cranial and Spinal Tumors Enhancing at Preoperative MRI and Operated With a Dedicated Filter on the Surgical Microscope: Preliminary Results in 279 Patients Enrolled in the FLUOCERTUM Prospective Study.*  
Falco J, Cavallo C, Vetrano IG, de Laurentis C, Siozos L, Schiariti M, Broggi M, Ferroli P, Acerbi F.  
**Front Surg.** 2019 Aug 13;6:49
31. *Peel-Away Catheter Introducer Sheath for Reducing Nasal Traumatic Injury During Pediatric Endoscopic Skull Base surgery.*  
La Corte E, de Laurentis C, Acerbi F, Broggi M, Pipolo C, Maccari A, Felisati G, Ferroli P..  
**World Neurosurg.** 2019 Sep;129:24-27.
32. *Making all deaths after surgery count*  
Schiavolin S, Broggi M, Leonardi M, Ferroli P.  
**Lancet** 2019 Jun 29;393(10191):2588.
33. *The impact of fluorescein-guided technique in the surgical removal of CNS tumors in a pediatric population: results from a multicentric observational study.*  
De Laurentis C, Höhne J, Cavallo C, Restelli F, Falco J, Broggi M, Bosio L, Vetrano IG, Schiariti M, Zattra CM, Ferroli P, Schebesch KM, Acerbi F.  
**J Neurosurg Sci.** 2019 Dec;63(6):679-687
34. *Fluorescein sodium in the surgical treatment of recurrent glioblastoma multiforme*  
Höhne J, Schebesch KM, de Laurentis C, Akçakaya MO, Pedersen CB, Brawanski A, Poulsen FR, Kiris T, Cavallo C, Broggi M, Ferroli P, Acerbi F.  
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