

### Sebastien Froelich, MD

#### Professor and Chairman

Department of Neurosurgery  
Lariboisière University Hospital  
Assistance Publique – Hôpitaux de Paris  
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#### EDUCATION

- Graduate

College of Medicine, University of Strasbourg, France

1989-1996

Concours national de l'internat en médecine  
National exam for residency

1996

ECFMG certificate – US medical licensing examination (USMLE)  
Certificate number : 0-650-643-0

2005

- Residency Training

Department of Neurosurgery, **Strasbourg University Hospital**

1996-2002

- Fellowships

**Skull base research fellowship**

Department of Neurosurgery  
University of Cincinnati  
Pr HR van Loveren, Pr JM Tew, Pr JT Keller

1999-2000

**Skull base fellowship**

Department of Neurosurgery – Mayfield clinic  
University of Cincinnati  
Pr PV Theodosopoulos, Pr JM Tew, Pr JT Keller

2005-2006

- Research Diploma

**Master degree in neurosciences**

Faculté de médecine, Université Paris XI

2001-2002

**Habilitation à diriger des recherches,**

French post-doctoral degree for supervising Ph-D students

2007



## ACADEMIC APPOINTMENTS

<b>Professor of Neurosurgery</b> College of Medicine, University of Paris – Diderot VII	2011-Present
<b>Professor of Neurosurgery</b> College of Medicine, University of Strasbourg	2008-2011
<b>EITS Course director – Skull base surgery</b> European Institute for Telesurgery	2009-Present
<b>Associate Professor of Neurosurgery</b> College of Medicine, University of Strasbourg	2006-2008
<b>Assistant Professor of Neurosurgery</b> College of Medicine, University of Strasbourg	2002-2006

## HOSPITAL APPOINTMENTS

<b>Chairman</b> Department of Neurosurgery Lariboisière University Hospital Assistance Publique – Hôpitaux de Paris	Sept 2013
<b>Vice chairman</b> Department of Neurosurgery Lariboisière University Hospital Assistance Publique – Hôpitaux de Paris	2011-2013
<b>Vice chairman</b> Department of Neurosurgery Strasbourg University Hospital	2008-2011

## PROFESSIONAL SOCIETY APPOINTMENTS

<b>World Federation of the Neurological Societies</b> Chairman of the Skull base Surgery Committee <a href="http://www.wfns.org/pages/wfns_committees/27.php">http://www.wfns.org/pages/wfns_committees/27.php</a>
<b>European Skull Base Society</b> Executive Committee Member

## PROFESSIONAL SOCIETY

Société Française de Neurochirurgie  
Société de Neurochirurgie de Langue Française  
Association des Neuro-OnCologues d'Expression Française  
European association of Neurological Society

SFNC  
SNCLF  
ANOCEF  
EANS



Franck H. Mayfield Society  
European Skull Base Society  
Congress of Neurological Surgeons

ESBS  
CNS

## AREA OF EXPERTISE

- ❑ Skull base surgery
- ❑ Endoscopic approach to the skull base
- ❑ Pituitary tumors
- ❑ Vascular neurosurgery
- ❑ Complex brain tumors
- ❑ Spinal tumor

## RESEARCH INTEREST

- ❑ **Xenograft model and role of angiogenesis in chordomas**  
Angiogenèse et recherche translationnelle INSERM - U965  
Paris Diderot University
- ❑ **Exogenous sex hormones and meningiomas**  
Angiogenèse et recherche translationnelle INSERM - U965  
Paris Diderot University
- ❑ **Bio-fonctionalized surface for skull base closure**  
INSERM U977 Laboratory, director: JC Voegel  
Strasbourg, France
- ❑ **Skull base anatomy and techniques**  
Neurosurgery and skull base laboratory,  
Director: Pr S Froelich  
Lariboisière Hospital  
Paris, France

## COURSE DIRECTOR

- ❑ **Course Director**

**Location: Strasbourg IRCAD/EITS**

**« Microscopic and endoscopic approach to the skull base »**

**Director: S Froelich, C Debry**

**3 days course**

**Edition: January 2010, January 2011, June 2011, January 2012, June 2012, January 2013, June 2013, January 2014, June 2014, January 2015, June 2015**

**Faculty:** K.A. Aziz (USA), A. Bazin (F), G. Brassier (F), M. Cardarelli (I), R. Carrau (USA), J. Casselmann (B), L. Cavallo (I), A. Chays (F), T. Civit (F), J. Cornelius (D), V. Couloigner (F), J.C. De Battista (ARG), J.L. Dietemann (F), H. Dufour (F), H.D. Fournier (F), T. Fukushima (USA), S. Gaillard (F), E. Gay (F), F. Gentili (CAN), B. George (F), L. Gilain (F), P. Herman (F), N. Hopf (D), E. Houdart (F), P. Jannetta (USA), E. Jouanneau (F), R. Kania (F), J.T. Keller (USA), L. Laccourreye (F), J. Lehmborg (D), M.J. Link (USA), C.F. Litre (F), C. Martins (Br), M. McDermott (USA), J. Morcos (USA), J.J. Moreau (F), A. Morita (J), K. Oyama (J), M.L. Pensak (USA), S. Puget (F), L. Regli (CH), A. Rhoton (USA), P.H. Roche (F), P. Rousseaux (F), D. Scavarda (F), S. Schmerber (F), H. Schroeder (D), R. Sekula (USA), A. Serrie (F), C.C. Shen (TW), E. Simon (F), D. Solari (I), C. Teo (AUS), J.M. Tew (USA), P.V. Theodosopoulos (USA), F. Tomasello (I), P. Tran Ba Huy (F), Y.K. Tu (TW), H.R. Van Loveren (USA), P. Vajkoczy (D), F. Veillon (F), K. Watanabe (J), A.S. Youssef (USA), L. Zimmer (USA), M. Zuccarello (USA)

<http://www.eits.fr/courses/other/neurosurgery.php>

**Location:** IRCAD/AITS Taichung, Taiwan

« Microscopic and endoscopic approach to the skull base »

**Director:** S Froelich, C Debyr

**3 days course – Dissection course and lectures**

**Edition:** Septembre 2010, September 2011, September 2012, September 2013, September 2014

**Faculty:** Y.K. Tu (TW), C.C. Shen (TW), B. Georges (F), P. Herman (F), J.T. Keller (USA), C. Teo (Aus), H.R. van Loveren (USA), N. Kawahara (Jap), K. Oyama (Jap), J. Lehmborg (Germ), K.S. Lee (South K), J. Liu (USA), W. Tirakotai (Thaïl), M. MacDermott (USA)

“Skull base endoscopic surgery” From crista galli to cranio-cervical junction

June 2012, Nice, France

Course Director

## INVITED FACULTY

### Master in Skull Base Surgery

2006, Tampa, USA

Directors: van Loveren HR, Rhoton A Jr,

### 2<sup>nd</sup> Annual minimalist approach to ordinary and extraordinary intracranial surgery

2006, Cincinnati, USA

Directors: Theodosopoulos PV, Pensak M, Keller JT

### 3<sup>rd</sup> Annual minimalist approach to ordinary and extraordinary intracranial surgery

2007, Cincinnati, USA

Directors: Theodosopoulos PV, Pensak M, Keller JT

### Microscopic and endoscopic approach to the skull base

November 2008, Pittsburgh, USA

Directors: Abdel Aziz KM, Jho HD

### Microscopic and endoscopic approach to the skull base

November 2009, Pittsburgh, USA

Directors: Abdel Aziz KM, Jho HD

**Minimally invasive treatment of trigeminal neuralgia**

 2010 AANS Annual Meeting, Philadelphia, USA  
 Director: Tew JM, Keller JT

**Microscopic and endoscopic approach to the skull base**

 November 2010, Pittsburgh, USA  
 Directors: Abdel Aziz KM, Jho HD

**Microscopic and endoscopic approach to the skull base**

 November 2011, Pittsburgh, USA  
 Directors: Abdel Aziz KM, Jho HD

**Endoscopic and microsurgical approach to the cavernous sinus**

 December 2011, Lyon, France  
 Director: Jouanneau E

**Microscopic and endoscopic approach to the skull base**

 October 2012, Pittsburgh, USA  
 Directors: Abdel Aziz KM, Jho HD

**Skull base dissection course**

 September 2012, Munich, Germany  
 Director: Lehmberg J

**Microscopic and endoscopic approach to the skull base**

 February 2013, Tampa, USA  
 Directors: van Loveren H, Rhoton A Jr

**Medtronic skull base dissection course**

 November 2012, Cambridge, England  
 Directors: Froelich S, Deby C

**Endoscopic and microsurgical approach to the cavernous sinus**

 December 2012, Lyon, France  
 Director: Jouanneau E

**Skull base dissection course**

 April 2013, Yokohama, Japan  
 Director: Fukushima T

**Skull base dissection course**

 April 2013, Bangkok, Thailand  
 Director: Fukushima T

**Perspectives in skull base surgery microscopic and endoscopic**

 May 2013, Naples, Italy  
 Director: Cappabianca P

**Skull base dissection course**

 August 2013, Bangkok, Thailand  
 Director: Tiratoutai W

**Endoscopic skull base course**

 October 2013, Messina, Italy  
 Director: Tomasello F

**Endoscopic and keyhole approaches to the anterior skull base**

 Oct 2013, Congress of Neurological Surgeons, San Francisco, USA  
 Course Director(s): Zachary N. Litvack, Charles Teo

**Microscopic and endoscopic approach to the skull base**

October 2013, Pittsburgh, USA  
Directors: Abdel Aziz KM, Jho HD

**Medtronic skull base dissection course**

March 2014, Cambridge, England  
Directors: S. Froelich, C. Debry

**3rd annual advanced open and endoscopic techniques in complex skull base surgery**

March, 2014, Mahwah, NJ, USA  
Directors: Evans J, Liu J

**Lougheed microsurgery course**

April 2014, University of Toronto Surgical Skills Centre, Toronto, Canada  
Directors: Radovanovic I., Tymianski M.

**Endoscopic and microsurgical approaches to the skull base**

August 2014, University Hospital, Zurich  
Director: Bozinov O.  
[www.neurochirurgie.usz.ch/anatomy\\_coursesy](http://www.neurochirurgie.usz.ch/anatomy_coursesy)

**Advanced intracranial neuroendoscopy**

Sept 2014, Tuttlingen, Germany  
Directors: Reich R., Hopf N.

**Endoscopic and keyhole approaches to the anterior skull base – Part 1: keyhole craniotomy and endoscopic assisted microsurgery**

October 2014, Congress of Neurological Surgeons, Boston  
Directors: Daniel F. Kelly, Zachary N. Litvack

**Endoscopic approach to the skull base**

IRCAD America Latina, Barretos, Brasil  
December 2014  
Directors: Stamm A, Vellutini E

**Skull base dissection course**

January 2014, Bangkok, Thailand  
Director: Fukushima T

**Advanced skull base microdissection course**

March 2015, West Palm Beach, Florida, USA  
Directors: Lehmborg J

**Colorado university skull base course**

Mars 2015, Denver, USA  
Director: Youssef S

**International summer school**

Transnasal Endoscopic Surgery: From Sinuses to Skull Base  
July 2015, Brescia  
Director: Fontanella M, Nicolai P

**Endoscopic and microsurgical approaches to the skull base**

August 2015, University Hospital, Zurich  
Director: Bozinov O  
[www.neurochirurgie.usz.ch/anatomy\\_coursesy](http://www.neurochirurgie.usz.ch/anatomy_coursesy)

**Microscopic and endoscopic approach to the skull base**

November 2015, Pittsburgh, USA  
 Directors: Abdel Aziz KM, Jho HD

**Endoscopic approach to the skull base**

IRCAD America Latina, Barretos, Brasil  
 November 2015  
 Directors: Stamm A, Vellutini E

**From pituitary to skull base course**

December 2015, Bologna, Italy  
 Directors: Franck G, Pasquini E

## INVITED LECTURER

**Aesculap Spine Days**

Nov 2013, Berlin, Germany  
 Lecture title: Anterolateral and posterior lateral approach to the craniovertebral junction

**Taiwan Neurosurgical Society annual meeting**

Nov 2013  
 Lecture title: Extended endoscopic approach to the skull base

**Department of Neurosurgery, Montreal University Hospital  
Grand Rounds Invited Lecturer**

Dec 2013  
 Lecture title: Extended endoscopic approach to the skull base

**Department of Neurosurgery, University of California San Francisco  
Wolfe Meningioma Lecture,**

Jan 2014  
 Lecture title: The role of exogenous sex hormones in meningiomas

**2014 Winter Clinics – Mayfield clinic, Mayo clinic, Cleveland clinic meeting**

Snowmass, Colorado, USA  
 Feb 2014  
 Lecture title: Endoscopic approaches to clival chordomas

**AFCOR annual meeting**

March 2013, Ecquevilly, France  
 Lecture title: The role of the neurosurgeon in primary brain and skull base tumors

**2014 City-Wide Rounds, Toronto Western Hospital  
Lougheed lecture**

April 2014, Toronto, Canada  
 Lecture title: Skull Base Chordomas: Lariboisiere Experience

**Taiwan Skull Base Society annual meeting**

Sept 2014, Taishung, Taiwan  
 Lecture title: Endoscopic approaches to the Lateral Skull Base  
 Surgical strategies for petroclival meningiomas

**Neurosurgical Society of Vietnam annual meeting**

December 2014, Hanoi, Vietnam  
 Lecture title: Extended endoscopic approach to the skull base

**Italian Society fo Skull Base Surgery annual meeting**

November 2014, Milano, Italy  
 Lecture title: Chordomas

**ARGO spine meeting**

January 2015, Paris, France  
 Lecture title: Cervical spine chordomas

**Society of the University Neurosurgeons SUN annual meeting**

July 2015, Shanghai, China  
 Lecture title: Skull base chordomas

**Iranian Society of Neurosurgery annual meeting**

October 2015, Teheran, Iran  
 Lecture title: the use of the endoscope in cranial surgery

**Genova department of Neurosurgery (Pr Karl Schaller)  
Grand rounds**

December 2015, Genova, Swiss  
 Lecture title: Extended endoscopic approach to the skull base

## MEETING ORGANISATION

**11<sup>th</sup> European Skull Base Society Congress**

Congress Chairman: Tran Ba Huy P, Froelich S, George B  
<http://www.esbscongress.org/>  
 26 – 28 June 2014

## ROUND TABLE ORGANISATION

EndoMilano, 6<sup>th</sup> World Congress of Endoscopic surgery of the brain, skull base and spine  
 April 2014, Milano, Italy  
 Title: CRANIO-VERTEBRAL JUNCTION AND ODONTOIDECTOMY  
 Faculty: Froelich S, Mazzatenta D, Prevedello D, Gaillard S

11<sup>th</sup> European Skull Base Society Congress

June 2014, Paris, France  
 Title: Management of chordomas: Where are we now ?  
 Faculty: Feuvret L., Choi D., Temel Y., Gentili F., Bresson D., Biassette H.

11<sup>th</sup> European Skull Base Society Congress

June 2014  
 Title: endoscopic approach to clival chordomas  
 Faculty: Froelich S, Herman P

## INTERNATIONNAL COOPERATION

- Laos – Vientiane
- Rwanda – Kigali



## ARTICLES IN REFERRED JOURNALS

1. Tauziède-Espariat A, Bresson D, Polivka M, Bouazza S, Labrousse F, Aronica E, Pretet JL, Progetti F, Herman P, Salle H, Monnien F, Valmary-Degano S, Laquerrière A, Pocard M, Chaigneau L, Isambert N, Aubriot-Lorton MH, Feuvret L, George B, **Froelich S**, Adle-Biassette H. Prognostic and Therapeutic Markers in Chordomas: A Study of 287 Tumors. *J Neuropathol Exp Neurol*. 2016 Jan 4.
2. Mandonnet E, Dadoun Y, Poisson I, Madadaki C, **Froelich S**, Lozeron P. [Axono-cortical evoked potentials: A proof-of-concept study](#). *Neurochirurgie*. 2015 Dec 11.
3. Bresson D, Herman P, Polivka M, **Froelich S**. [Sellar Lesions/Pathology](#). *Otolaryngol Clin North Am*. 2016 Feb;49(1):63-93.
4. Bernat AL, Oyama K, Hamdi S, Mandonnet E, Vexiau D, Pocard M, George B, **Froelich S**. [Growth stabilization and regression of meningiomas after discontinuation of cyproterone acetate: a case series of 12 patients](#). *Acta Neurochir (Wien)*. 2015 Oct;157(10):1741-6.
5. Amelot A, De Cremoux P, Quillien V, Polivka M, Adle-Biassette H, Lehmann-Che J, Françoise L, Carpentier AF, George B, Mandonnet E, **Froelich S**. [IDH-Mutation Is a Weak Predictor of Long-Term Survival in Glioblastoma Patients](#). *PLoS One*. 2015 Jul 9;10(7).
6. George B, Bresson D, Herman P, **Froelich S**. [Chordomas: A Review](#). *Neurosurg Clin N Am*. 2015 Jul;26(3):437-52.
7. Dali-Youcef N, **Froelich S**, Moussallieh FM, Chibbaro S, Noël G, Namer IJ, Heikkinen S, Auwerx J. [Gene expression mapping of histone deacetylases and co-factors, and correlation with survival time and 1H-HRMAS metabolomic profile in human gliomas](#). *Sci Rep*. 2015 Mar 20;5:9087.
8. Caillard A, Gayat E, Tantot A, Dubreuil G, M'Bakulu E, Madadaki C, Bart F, Bresson D, **Froelich S**, Mebazaa A, Vallée F. [Comparison of cardiac output measured by oesophageal Doppler ultrasonography or pulse pressure contour wave analysis](#). *Br J Anaesth*. 2015 Jun;114(6):893-900.
9. Stacchiotti S, Sommer J; Chordoma Global Consensus Group. [Building a global consensus approach to chordoma: a position paper from the medical and patient community](#). *Lancet Oncol*. 2015 Feb;16(2):e71-83.
10. Mandonnet E, De Witt Hamer P, Poisson I, Whittle I, Bernat AL, Bresson D, Madadaki C, Bouazza S, Ursu R, Carpentier AF, George B, **Froelich S**. [Initial experience using awake surgery for glioma: oncological, functional, and employment outcomes in a consecutive series of 25 cases](#). *Neurosurgery*. 2015 Apr;76(4):382-9.
11. DePowell JJ, **Froelich SC**, Zimmer LA, Leach JL, Karkas A, Theodosopoulos PV, Keller JT. [Segments of the internal carotid artery during endoscopic transnasal and open cranial approaches: can a uniform nomenclature apply to both?](#) *World Neurosurg*. 2014 Dec;82(6 Suppl):S66-71.
12. Salem R, Vallée F, Dépret F, Callebert J, Saint Maurice J, Marty P, Matéo J, Madadaki C, Houdart E, Bresson D, **Froelich S**, Stapf C, Payen D, Mebazaa A. Subarachnoid hemorrhage induces an early and reversible cardiac injury associated with catecholamine release: one-week follow-up study. *Crit Care*. 2014 Oct 30;18(5):558.
13. Amelot A, Stretton E, Delingette H, Ayache N, **Froelich S**, Mandonnet E. Expert-validated CSF segmentation of MNI atlas enhances accuracy of virtual glioma growth patterns. *J Neurooncol*. 2014 Nov 5.
14. Cebula H, Kurbanov A, Zimmer LA, Poczos P, Leach JL, De Battista JC, **Froelich S**, Theodosopoulos PV, Keller JT. Endoscopic, Endonasal Variability in the Anatomy of the Internal Carotid Artery. *World Neurosurg*. 2014 Sep 16.
15. George B, Bresson D, Bouazza S, **Froelich S**, Mandonnet E, Hamdi S, Orabi M, Polivka M, Cazorla A, Adle-Biassette H, Guichard JP, Duet M, Gayat E, Vallée F, Canova CH, Riet F, Bolle S, Calugaru V, Dendale R, Mazon JJ, Feuvret L, Boissier E, Vignot S, Puget S, Sainte-Rose C, Beccaria K. Chordoma. *Neurochirurgie*. 2014 Jun;60(3):63-140.
16. Oker N, Lang P, Bresson D, George B, Guichard JP, Wassef M, Sauvaget E, **Froelich S**, Kania R, Herman P. Radionecrosis of the frontal lobe as a consequence of malignant ethmoid tumor management: incidence, diagnosis, risk factors, prevention and management. *Eur Arch Otorhinolaryngol*. 2014 Apr 16.
17. Montava M, Verillaud B, Kania R, Sauvaget E, Bresson D, Mancini J, **Froelich S**, Herman P. Critical analysis of recurrences of esthesioneuroblastomas: can we prevent them? *Eur Arch Otorhinolaryngol*. 2014 Apr 10.



18. Van Gompel JJ, Alikhani P, Tabor MH, van Loveren HR, Agazzi S, **Froelich S**, Youssef AS. Anterior inferior petrosectomy: defining the role of endonasal endoscopic techniques for petrous apex approaches. *J Neurosurg*. 2014 Jun;120(6):1321-5
19. Chibbaro S, Champeaux C, Poczos P, Cardarelli M, Di Rocco F, Iaccarino C, Servadei F, Tigan L, Chaussemy D, George B, **Froelich S**, Kehrlı P, Romano A. Anterior trans-frontal endoscopic management of colloid cyst: an effective, safe, and elegant way of treatment. Case series and technical note from a multicenter prospective study. *Neurosurg Rev*. 2014 Apr;37(2):235-41; discussion 241. doi: 10.1007/s10143-013-0508-4. Epub 2013 Dec 19.
20. Chibbaro S, Cornelius JF, **Froelich S**, Tigan L, Kehrlı P, Debry C, Romano A, Herman P, George B, Bresson D. Endoscopic endonasal approach in the management of skull base chordomas--clinical experience on a large series, technique, outcome, and pitfalls. *Neurosurg Rev*. 2014 Apr;37(2):217-24; discussion 224-5
21. Voormolen EH, **Froelich S**, Woerdeman PA, Belkelbach van der Sprenkel JW, Braunius WW, Regli L. Surgical instrument tracking optimizes trans-sphenoidal endoscopic treatment of petrous apex cholesterol granuloma. *J Neurol Surg A Cent Eur Neurosurg*. 2013 Mar;74(2): 109-12.
22. Cebula H, Boujan F, Beaujeux R, Boyer P, **Froelich S**. Giant cell tumor of C2 colonized by an aneurismal bone cyst. Report of a case. *Neurochirurgie*. 2012 Dec;58(6): 376-81
23. Cosset EC, Godet J, Entz-werlı N, Guérin E, Guenot D, **Froelich S**, Bonnet D, Pinel S, Plenat F, Chastagner P, Dontenwill M, Martin S. Involvement of the TGF $\beta$  pathway in the regulation of  $\alpha$ 5  $\beta$ 1 integrins by caveolin-1 in human glioblastoma. *Int J Cancer*. 2012 Aug 1;131(3):601-11.
24. De Battista JC, Zimmer LA, Teodosopoulos PV, **Froelich SC**, Keller JT. Anatomy of the inferior orbital fissure: implications for endoscopic cranial base surgery. *J Neurol Surg B Skull Base*. 2012 Apr;73(2):132-8.
25. De Battista JC, Zimmer LA, Rodríguez-Vázquez JF, **Froelich SC**, Theodosopoulos PV, DePowell JJ, Keller JT. Muller's muscle, no longer vestigial in endoscopic surgery. *World Neurosurg*. 2011 Sep-Oct;76(3-4):342-6.
26. Abdel Aziz KM, Bhatia S, Tantawy MH, Sekula R, Keller JT, **Froelich S**, Happ E. Minimally invasive transpalpebral "eyelid" approach to the anterior cranial base. *Neurosurgery*. 2011 Dec;69(2 Suppl Operative):ons195-206; discussion 206-7.
27. Chen H, Cebula H, Schott R, Dietemann JL, **Froelich S**. Glioblastoma multiforme presenting with ischemic stroke: case report and review of the literature. *J Neuroradiol*. 2011 Dec;38(5):304-7.
28. Noël G, Schott R, **Froelich S**, Gaub MP, Boyer P, Fischer-Lokou D, Dufour P, Kehrlı P, Maitrot D. Retrospective comparison of chemoradiotherapy followed by adjuvant chemotherapy, with or without prior gliadel implantation (carmustine) after initial surgery in patients with newly diagnosed high-grade gliomas. *Int J Radiat Oncol Biol Phys*. 2012 Feb 1;82(2):749-55.
29. Cebula H, Pham TQ, Boyer P, **Froelich S**. Regression of meningiomas after discontinuation of cyproterone acetate in a transsexual patient. *Acta Neurochir (Wien)*. 2010 Nov;152(11):1955-6.
30. **Froelich S**, Cebula H, Debry C, Boyer P. Anterior communicating artery aneurysm clipped through an endoscopic endonasal approach: Technical note. *Neurosurgery*. 2011 Feb 16.
31. Guthikonda B, Tobler W Jr, **Froelich S**, Leach J, Theodosopoulos PV, Tew JM Jr., Keller JT. Anatomic Study of the Chiasmatic Sulcus and Its Surgical Implications. *Clin Anat*. 2010 Jun 8.
32. Cebula H, Lahlou A, De Battista JC, Debry C, **Froelich S**. [Endoscopic approaches to the orbit]. *Neurochirurgie*. 2010 Apr-Jun;56(2-3):230-5. Epub 2010 Mar 27. French.
33. Civit T, **Froelich S**, Joud A, Perez M, Mercier P. [Descriptive anatomy of the orbit]. *Neurochirurgie*. 2010 Apr-Jun;56(2-3):81-8. Epub 2010 Mar 20. French.
34. Bousquet O, El Ouahabi A, Le Reste PJ, Sacko O, Joud A, Hayek G, **Froelich S**, Mourier KL, Mercier P, Vignes JR, Loiseau H, Liguoro D, Scherpereel B, Rousseaux P, Gay E, Brassier G, Laguarrigue J, Cophignon J, Civit T. [Orbital tumors. Neurosurgical activity]. *Neurochirurgie*. 2010 Apr-Jun;56(2-3):213-6. Epub 2010 Mar 17. French.
35. Theodosopoulos PV, Leach J, Kerr RG, Zimmer LA, Denny AM, Guthikonda B, **Froelich S**, Tew JM. Maximizing the extent of tumor resection during transsphenoidal surgery for pituitary macroadenomas: can endoscopy replace intraoperative magnetic resonance imaging? *J Neurosurg*. 2009;Oct 16.
36. Bierry G, Jehl F, Holl N, Sibilia J, **Froelich S**, Froehlig P, Dietemann JL, Kremer S. Cellular magnetic resonance imaging for the differentiation of infectious and degenerative vertebral disorders: preliminary results. *J Magn Reson Imaging*. 2009 Oct;30(4):901-6.
37. **Froelich SC**, Abdel Aziz KM, Cohen PD, van Loveren HR, Keller JT. Microsurgical and endoscopic anatomy of Liliequist's membrane: a complex and variable structure of the basal cisterns. *Neurosurgery*. 2008 Jul;63(1 Suppl 1):ONS1-8; discussion ONS8-9.

38. **Froelich SC**, Abdel Aziz KM, Levine NB, Pensak ML, Theodosopoulos PV, Keller JT. Exposure of the distal cervical segment of the internal carotid artery using the trans-spinosum corridor: cadaveric study of surgical anatomy. *Neurosurgery*. 2008 May;62(5 Suppl 2):ONS354-61.
39. **Froelich S**, Aziz KA, Levine NB, Tew JM Jr, Keller JT, Theodosopoulos PV. Extension of the one-piece orbitozygomatic frontotemporal approach to the glenoid fossa: cadaveric study. *Neurosurgery*. 2008 May;62(5 Suppl 2):ONS312-6.
40. **Froelich SC**, Aziz KM, Levine NB, Theodosopoulos PV, van Loveren HR, Keller JT. Refinement of the extradural anterior clinoidectomy: surgical anatomy of the orbitotemporal periosteal fold. *Neurosurgery*. 2007 Nov;61(5 Suppl 2):179-85.
41. Blanc F, **Froelich S**, Vuillemet F, Carré S, Baldauf E, de Martino S, Jaulhac B, Maitrot D, Tranchant C, de Seze J. Acute myelitis and Lyme disease. *Rev Neurol (Paris)*. 2007 Nov;163(11):1039-47.
42. Scavarda D, Litre CF, **Froelich S**, Srour R, Rousseaux P. Cervical tumoral calcium pyrophosphate dihydrate deposition disease 28 years after suboccipital craniotomy. case report. *Neurosurgery*. 2007 Juin;60(6): E1151.
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