

LISTE DE PUBLICATIONS ET PRESENTATIONS

MIMOSA 2013-2014

Service de Neurochirurgie,

Département de Neurosciences cliniques,

Hôpitaux Universitaires de Genève

Publications dans journaux avec politique éditoriale

1. Cabrilo I, Burkhardt K, Schaller K, Tessitore E: Renal carcinoma relapse presenting as a peripheral nerve sheath tumor: A case report and brief review of the literature. Neurochirurgie 59(3):128-132, 2013
2. Schaller K, Cabrilo I, Pereira VM, Bijlenga P: Hybridoperationssaal aus Sicht der Neurochirurgie. Chirurg 84(12):1041-1047, 2013
3. Stienen MN, Abdulazim A, Gautschi OP, Schneiderhan TM, Hildebrandt G, Lücke S: Calcifying pseudoneoplasms of the neuraxis (CAPNON): clinical features and therapeutic options. Acta Neurochir 155(1):9-17, 2013
4. Stienen MN, Abdulazim A, Hildebrandt G, Gautschi OP: Emergency scenario epidural hematoma – assessment and management. Praxis 102(11):675-680, 2013
5. Smoll NR, Schaller K, Gautschi OP: Long-term survival of patients with glioblastoma multiforme (GBM). J Clin Neurosci 20(5):670-675, 2013

6. Smoll NR, Gautschi OP, Radovanovic I, Schaller K, Weber DC: Incidence and relative survival of chordomas: the standardized mortality ratio and the impact of chordomas on a population. *Cancer* 119(11):2029-2037, 2013
7. Gautschi OP, Stienen MN, Schaller K: Spontaneous regression of lumbar and cervical disc herniations – a well established phenomenon. *Praxis* 102(11):675-680, 2013
8. Gautschi OP, Schaller K: Surgery or conservative therapy for cerebral haemorrhage? *Lancet* 382(9890):377-378, 2013
9. Smoll NR, Stienen MN, Schaller K, Gautschi OP: Aseptic bone flap osteonecrosis following cranioplasty after decompressive craniectomy. *Praxis* 102(13):809-812, 2013
10. Gautschi OP, Huser MC, Smoll NR, Maedler S, Bednarz S, von Hessling A, Lussmann R, Hildebrandt G, Seule MA: Long-term neurological and neuropsychological outcome in patients with severe traumatic brain injury. *Clin Neurol Neurosurg* 115(12):2482-2488, 2013
11. Gautschi OP, Rilliet B, Schaller K, Jenny B: Positional plagiocephaly in infancy: diagnosis and management. *Praxis* 102(25):1537-1542, 2013

12. Rager O, Amzalag G, Varoquaux A, Schaller K, Ratib O, Tessitore E: SPECT-CT assessment of pseudarthrosis after spinal fusion: Diagnostic pitfall due to a broken screw. *Case Rep Orthop* 2013;502517, 2013
13. Pereira VM, Bonnefous O, Ouared R, Brina O, Stawiaski J, Aerts H, Ruijters D, Narata AP, Bijlenga P, Schaller K, Lovblad KO: A DSA-based method using contrast-motion estimation for the assessment of the intra-aneurysmal flow changes induced by flow-diverter stents. *AJNR Am J Neuroradiol* 34(4):808-815, 2013
14. Pereira VM, Bijlenga P, Marcos A, Schaller K, Lovblad KO: Diagnostic approach to cerebral aneurysms. *Eur J Radiol* 82(10):1623-1632, 2013
15. Wostrack M, Sandow N, Vajkoczy P, Schatlo B, Bijlenga P, Schaller K, Kehl V, Harmening K, Ringel F, Ryang YM, Friedrich B, Stoffel M, Meyer B: Subarachnoid haemorrhage WFNS grade V: is maximal treatment worthwhile? *Acta Neurochir* 155(4):579-586, 2013
16. Coen M, Burkhardt K, Bijlenga P, Gabbiani G, Schaller K, Kövari E, Rüfenacht DA, Ruíz DS, Pizzolato G, Bochaton-Piallat ML: Smooth muscle cells of human intracranial aneurysms assume phenotypic

features similar to those of the atherosclerotic plaque. *Cardiovasc Pathol* 22(5):339-344, 2013

17.Pereira VM, Marcos-Gonzalez A, Radovanovic I, Bijlenga P, Narata AP, Moret J, Schaller K, Lovblad KO: Transvenous embolization of a ruptured deep cerebral arteriovenous malformation: A technical note. *Interv Neuroradiol* 19(1):27-34, 2013

18.Gouriou Y, Bijlenga P, Demarex N: Mitochondrial Ca^{2+} uptake from plasma membrane Cav3.2 protein channels contributes to ischemic toxicity in PC12 cells. *J Biol Chem* 288(18):12459-12468, 2013

19.Pereira VM, Brina O, Marcos Gonzales A, Narata AP, Bijlenga P, Schaller K, Lovblad KO, Ouared R: Evaluation of the influence of inlet boundary conditions on computational fluid dynamics for intracranial aneurysms: a virtual experiment. *J Biomech* 46(9):1531-1539, 2013

20.Stienen MN, Weisshaupt R, Fandino J, Fung C, Keller E, Hildebrandt G, Studerus-Germann A, Muri R, Gutbrod K, Bläsi S, Monsch AU, Brugger P, Mondadori C, Sailer M, Bijlenga P, Schaller K, Schatlo B; Swiss SOS study group: Current practice in neuropsychological outcome reporting after aneurysmal subarachnoid haemorrhage. *Acta Neurochir* 155(11):2045-2051, 2013

21. Bijlenga P, Ebeling C, Jaegersberg M, Summers P, Rogers A, Waterworth A, Iavindrasana J, Macho J, Pereira VM, Bukovics P, Vivas E, Sturkenboom MC, Wright J, Friedrich CM, Frangi A, Byrne J, Schaller K, Rufenacht D; @neurIST Investigators: Risk of rupture of small anterior communicating artery aneurysms is similar to posterior circulation aneurysms. *Stroke* 44(11):3018-3026, 2013
22. Kotowski M, Sarrafzadeh A, Schatlo B, Boex C, Narata AP, Pereira VM, Bijlenga P, Schaller K: Intraoperative angiography reloaded: A new hybrid operating theater for combined endovascular and surgical treatment of cerebral arteriovenous malformations: A pilot study on 25 patients. *Acta Neurochir* 155(11):2071-2078, 2013
23. Pereira VM, Vargas MI, Marcos A, Bijlenga P, Narata AP, Haller S, Lövblad KO: Diagnostic neuroradiology for the interventional neuroradiologist. *World J Radiol* 5(11):386-397, 2013
24. Maercker A, Perkonigg A, Preisig N, Schaller K, Weller M; Cost of Disorders of the Brain in Europe Study Group: The costs of disorders of the brain in Switzerland: an update from the European Brain Council Study for 2010. *Swiss Med Wkly* 143:w13751, 2013

25. Copin JC, da Silva RF, Fraga-Silva RA, Capettini L, Quintao S, Lenglet S, Pelli G, Galan K, Burger F, Braunersreuther V, Schaller K, Deruaz M, Proudfoot AE, Dallegri F, Stergiopoulos N, Santos RA, Gasche Y, Mach F, Montecucco F: Treatment with Evasin-3 reduces atherosclerotic vulnerability for ischemic stroke, but not brain injury in mice. *J Cereb Blood Flow Metab* 33(4):490-498, 2013
26. Kanavaki A, Jenny B, Hanquinet S: Chiari I malformation associated with premature unilateral closure of the posterior intraoccipital synchondrosis in a preterm infant. *J Neurosurg Pediatr* 11(6):658-660, 2013
27. Lascano AM, Lemkaddem A, Granziera C, Korff CM, Boex C, Jenny B, Schmitt-Mechelke T, Thiran JP, Garibotto V, Vargas MI, Schaller K, Seeck M, Vulliemoz S: Tracking the source of cerebellar epilepsy: hemifacial seizures associated with cerebellar cortical dysplasia. *Epilepsy Res* 105(1-2):245-249, 2013
28. Genetti M, Grouiller F, Vulliemoz S, Spinelli L, Seeck M, Michel SM, Schaller K: Noninvasive language mapping in patients with epilepsy or brain tumors. *Neurosurgery* 72(4):555-565, 2013

29. Dützmann S, Schatlo B, Lobrinus A, Murek M, Wostrack M, Weiss C, Schaller K, Raabe A, Meyer B, Goldbrunner R, Franz K, Seifert V, Senft C: A multi-center retrospective analysis of treatment effects and quality of life in adult patients with cranial ependymomas. *J Neurooncol* 114(3):319-327, 2013
30. Chen B, Grothe C, Schaller K: Validation of a new neurological score (FOUR Score) in the assessment of neurosurgical patients with severely impaired consciousness. *Acta Neurochir* 155(11):2133-2139, 2013
31. Fasel JH, Beinemann J, Schaller K, Gailloud P: A critical inventory of preoperative skull replicas. *Ann R Coll Surg Engl* 95(6):401-404, 2013
32. Sarrafzadeh A, Santos E, Wiesenthal D, Martus P, Vajkoczy P, Oehmchen M, Unterberg A, Dreier JP, Sakowitz O: Cerebral glucose and spreading depolarization in patients with aneurysmal subarachnoid hemorrhage. *Acta Neurochir Suppl* 115:143-147, 2013
33. Sakowitz OW, Santos E, Nagel A, Krajewski KL, Hertle DN, Vajkoczy P, Dreier JP, Unterberg AW, Sarrafzadeh AS: Clusters of spreading depolarizations are associated with disturbed cerebral metabolism in patients with subarachnoid hemorrhage. *Stroke* 44(1):220-223, 2013

- 34.El Hassani Y, Beaulieu JY, Tschanz E, Marcheix PS: Proliferating trichilemmal tumor of the pulp of a finger: case report and review of the literature. *Chir Main* 32(2):117-119, 2013
- 35.El Hassani Y, Jenny B, Pittet-Cuenod B, Bottani A, Scolozzi P, Ozsahin Ayse H, Rilliet B: Proteus syndrome revealing itself after the treatment of a bilateral subdural haematoma. *Childs Nerv Syst* 29(10):1927-1931, 2013
- 36.Berkels B, Cabrilo I, Haller S, Rumpf M, Schaller K: Co-registration of intra-operative brain surface photographs and pre-operative MR images. *Int J Comput Assist Radiol Surg* 9(3):387-400, 2014
- 37.Cabrilo I, Bijlenga P, Schaller K: Augmented reality in the surgery of cerebral aneurysms: a technical report. *Neurosurgery* 10(Suppl 2):252-260, 2014
- 38.Cabrilo I, Bijlenga, Schaller K: Augmented reality in the surgery of cerebral arteriovenous malformations: technique assessment and considerations. *Acta Neurochir* 156(9):1769-1774, 2014

39. Gautschi OP, Hottinger AF, Lobrinus JA, Schaller K, Bijlenga P: Isolated cerebral metastasis of a triceps muscle leiomyosarcoma: a case report. *Br J Neurosurg* 28(3):400-402, 2014
40. Gautschi OP, Smoll NR, Kotowski M, Schatlo B, Tosic M, Stimec B, Fasel J, Schaller K, Bijlenga P: Non-assisted versus neuro-navigated and XperCT-guided external ventricular catheter placement: a comparative cadaver study. *Acta Neurochir* 156(4):777-785, 2014
41. Stienen MN, Smoll NR, Hildebrandt G, Schaller K, Gautschi OP: Early surgical education of residents is safe for microscopic lumbar disc surgery. *Acta Neurochir* 156(6):1205-1214, 2014
42. Sarrafzadeh AS, Hopf SA, Gautschi OP, Narata AP, Schaller K: Intracranial hypotension after trauma. *Springerplus* 3:153, 2014
43. Jenny B, Smoll NR, Rilliet B, Gautschi OP: Management of positional plagiocephaly—helmet or no helmet? *Childs Nerv Syst* 30(7):1153-1154, 2014
44. Stienen MN, Smoll NR, Hildebrandt G, Schaller K, Gautschi OP: Influence of smoking status at time of surgery for herniated lumbar disk on

postoperative pain and health-related quality of life. Clin Neurol Neurosurg 122:12-19, 2014

45.Gautschi OP, Corniola MV, Schaller K: Risk of recurrence and postoperative intervertebral disc degeneration after lumbar intervertebral disc operation – is an annulus closure prosthesis the solution? Praxis 103(13):775-779, 2014

46.Gautschi OP, Payer M, Corniola MV, Smoll NR, Schaller K, Tessitore E: Clinically relevant complications related to posterior atlanto-axial fixation in atlanto-axial instability and their management. Clin Neurol Neurosurg 123:131-135, 2014

47.Gautschi OP, Stienen MN, Smoll NR, Corniola MV, Tessitore E, Schaller K: Incidental durotomy in lumbar spine surgery-a three-nation survey to evaluate its management. Acta Neurochir 156(9):1813-1820, 2014

48.Payer M, Nicolas S, Oezkan N, Tessitore E: Dynamic transpedicular stabilisation and decompression in single-level degenerative anterolisthesis and stenosis. Acta Neurochir 156(2):221-227, 2014

49.Payer M, Tessitore E: L5/S1 disc herniation and S1 pedicle aplasia: case report and review of the literature. Acta Neurochir 156(4):757-758, 2014

50. Molliqaj G, Payer M, Schaller K, Tessitore E: Acute traumatic central cord syndrome: a comprehensive review. *Neurochirurgie* 60(1-2):5-11, 2014
51. Schatlo B, Molliqaj G, Cuvinciuc V, Kotowski M, Schaller K, Tessitore E: Safety and accuracy of robot-assisted versus fluoroscopy-guided pedicle screw insertion for degenerative diseases of the lumbar spine: a matched cohort comparison. *J Neurosurg Spine* 20(6):636-643, 2014
52. Tessitore E, Molliqaj G, Schatlo B, Schaller K: Clinical evaluation and surgical decision making for patients with lumbar discogenic pain and facet syndrome. *Eur J Radiol*, 2014 (Epub ahead of print)
53. Tessitore E, Corniola MV, Gallay M, Schaller K: Grade I lumbar degenerative spondylolisthesis: Do we always need fusion with bilateral pedicle screws and rods? *J Neurosurg Sci* 58(2 Suppl 1):55-61
54. de Goumoens P, Genevay S, Tessitore E, Zaarour M, Duff JM, Faundez A, Schizas C, Schindler M, Zoccatelli D, Foletti A, Norberg I, Belgrand L, Griesser AC, Kulik G: Inter-hospital CHUV-HUG medical consensus of back pain management. Its applications in care pathways within CHUV of Lausanne. *Rev Med Suisse* 10(428):970-973, 2014

- 55.Schonauer C, Johnson R, Chiriatti S, de Falco R, Albanese V, Tessitore E, Barbagallo GM: Adult idiopathic occlusion of Monro foramina: Intraoperative endoscopic reinterpretation of radiological data and review of the literature. *Br J Neurosurg* 29:1-5, 2014
- 56.Pereira VM, Ouared R, Brina O, Bonnefous O, Satwiaski J, Aerts H, Ruijters D, van Nijnatten F, Perren F, Bijlenga P, Schaller K, Lovblad KO: Quantification of internal carotid artery flow with digital subtraction angiography: validation of an optical flow approach with Doppler ultrasound. *AJNR Am J Neuroradiol* 35(1):156-163, 2014
- 57.Gonzalez AM, Narata AP, Yilmaz H, Bijlenga P, Radovanovic I, Schaller K, Lovblad KO, Pereira VM: Blood blister-like aneurysms: Single center experience and systematic literature review. *Eur J Radiol* 83(1):197-205, 2014
- 58.Pereira VM, Brina O, Bijlenga P, Bouillot P, Narata AP, Schaller K, Lovblad KO, Ouared R: Wall shear stress distribution of small aneurysms prone to rupture: a case-control study. *Stroke* 45(1):261-264, 2014
- 59.Emmert K, Van De Ville D, Bijlenga P, Djema DA, Haller S: Auditory cortex activation is modulated by somatosensation in a case of tactile tinnitus. *Neuroradiology* 56(6):511-514, 2014

- 60.Brina O, Ouared R, Bonnefous O, van Nijnatten F, Bouillot P, Bijlenga P, Schaller K, Lovblad KO, Grünhagen T, Ruijters D, Mendes Pereira V: Intra-aneurysmal flow patterns: Illustrative comparison among digital subtraction angiography, optical flow, and computational flow dynamics. *AJNR Am J Neuroradiol*, 2014 (Epub ahead of print)
- 61.Sarrafzadeh AS, Vajkoczy P, Bijlenga P, Schaller K: Monitoring in Neurointensive Care – The Challenge to Detect Delayed Cerebral Ischemia in High-Grade Aneurysmal SAH. *Front Neurol* 5:134, 2014
- 62.Mégevand P, Spinelli L, Genetti M, Brodbeck V, Momjian S, Schaller K, Michel CM, Vulliemoz S, Seeck M: Electric source imaging of interictal activity accurately localises the seizure onset zone. *J Neurol Neurosurg Psychiatry* 85(1):38-43, 2014
- 63.Kargiotis O, Lascano AM, Garibotto V, Spinelli L, Genetti M, Wissmeyer M, Korff CM, Momjian S, Michel CM, Seeck M, Vulliemoz S: Localization of the epileptogenic tuber with electric source imaging in patients with tuberous sclerosis. *Epilepsy Res* 108(2):267-279, 2014

- 64.Stefanelli S, Barnaure I, Momjian S, Seeck M, Constantinescu I, Lovblad KO, Vargas MI: Incidental intrasphenoidal encephalocele(ise). J Neuroradiol, 2014 (Epub ahead of print)
- 65.Sarrafzadeh AS, Smoll NR, Unterberg AW: Lessons from the Intracranial Pressure-Monitoring Trial in Patients with Traumatic Brain Injury. World Neurosurg 82(1-2):e393-e395, 2014
- 66.Radolf S, Smoll N, Drenckhahn C, Dreier JP, Vajkoczy P, Sarrafzadeh AS: Cerebral lactate correlates with early onset pneumonia after aneurysmal SAH. Transl Stroke Res 5(2):278-285, 2014
- 67.Jägersberg M, Schneider K, Schaller C, Richter M: ALIF versus TLIF for Post-Discectomy Syndrome. J Neurol Surg A Cent Eur Neurosurg 75(5):329-335, 2014
- 68.Meier RP, de Saussure WO, Orci LA, Gutzwiller EM, Morel P, Ris F, Schwenter F: Clinical outcome in acute small bowel obstruction after surgical or conservative management. World J Surg, 2014 (Epub ahead of print)
- 69.Lascano AM, Grouiller F, Genetti M, Spinelli L, Seeck M, Schaller K, Michel CM: Surgically relevant localization of the central sulcus with

high-density somatosensory-evoked potentials compared with functional magnetic resonance imaging. *Neurosurgery* 74(5):517-526, 2014

70. Genetti M, Tyrand R, Grouiller F, Lascano AM, Vulliemmoz S, Spinelli L, Seeck M, Schaller K, Michel CM: Comparison of high gamma electrocorticography and fMRI with electrocortical stimulation for localization of somatosensory and language cortex. *Clin Neurophysiol*, 2014 (Epub ahead of print)

71. Hottinger AF, Aissa AB, Espeli V, Squiban D, Dunkel N, Vargas MI, Hundsberger T, Mach N, Schaller K, Weber DC, Bodmer A, Dietrich PY: Phase I of sorafenib combined with radiation therapy and temozolomide as first-line treatment of high-grade glioma. *Br J Cancer* 110(11):2655-2661, 2014

72. Lenglet S, Montecucco F, Denes A, Coutts G, Pinteaux E, Mach F, Schaller K, Gasche Y, Copin JC: Recombinant tissue plasminogen activator enhances microglial cell recruitment after stroke in mice. *J Cereb Blood Flow Metab* 34(5):802-812, 2014

73. Lenglet S, Montecucco F, Mach F, Schaller K, Gasche Y, Copin JC: Analysis of the expression of nine secreted matrix metalloproteinases

and their endogenous inhibitors in the brain of mice subjected to ischemic stroke. *Thromb Haemost* 112(2):363-378, 2014

74. Gautschi OP, Smoll NR, Rilliet B, Jenny B. Re: Helmet therapy in infants with positional skull deformation: randomised controlled trial. *BMJ*, 2014 (Epub ahead of print)

Articles acceptés dans journaux avec politique éditoriale,
mais encore en attente de parution

1. Cabrilo I, Sarrafzadeh A, Bijlenga P, Landis BN, Schaller K: Augmented reality-assisted skull base surgery. Neurochirurgie (accepted), 2014
2. Corniola MV, Tessitore E, Schaller K, Gautschi OP: Hernie discale lombaire – Diagnostic et prise en charge. Rev Med Suisse (accepted), 2014
3. Corniola MV, Tessitore E, Schaller K, Gautschi OP: Hernie discale cervicale – Diagnostic et prise en charge. Rev Med Suisse (accepted), 2014
4. Smoll N, Gautschi OP, Schaller K: Incidence and relative survival of esthesioneuroblastomas. Cancer (accepted), 2014
5. Stienen MN, Smoll NR, Tessitore E, Hildebrandt G, Schaller K, Gautschi OP: Constipation after thoraco-lumbar fusion surgery. Clin Neurol Neurosurg (accepted), 2014

6. Stienen MN, Bijlenga P, Schaller K, Hildebrandt G, Gautschi OP: Behandlungsstrategien für zerebrale cavernomatöse Malformationen. Praxis (accepted), 2014
7. Rogers A, Bichsel D, Momjian S: Deformation of the corona radiata and internal capsule in normal pressure hydrocephalus. Neurochirurgie (accepted), 2014
8. Corniola MV, Gautschi OP: Complete cage migration/subsidence into the adjacent vertebral body after PLIF: A case report. J Clin Neurosci (accepted), 2014
9. Cabrilo I, Schaller K, Bijlenga P: How Mini Can Mini-Pterional Craniotomies Get? Neurosurgery (accepted), 2014
10. Gautschi OP, Stienen MN, Corniola MV, Schaller K: Minimal-invasive lumbale Wirbelsäulenchirurgie: Historischer Rückblick, aktueller Stand und Ausblick. Praxis (accepted), 2014
11. Kratzsch T, Gautschi OP, Kuhn SA, Hottinger AF, Hildebrandt G, Stienen MN: Niedrig-gradige Gliome im Erwachsenenalter. Praxis (accepted), 2014

12. Stienen MN, Bijlenga P, Schaller K, Hildebrandt G, Gautschi OP:
Behandlungsstrategien für cerebrale cavernomatöse Malformationen.
Praxis (accepted), 2014
13. Corniola MV, Jägersberg M, Stienen MN, Gautschi OP: Complete cage
migration/subsidence into the adjacent vertebral body after PLIF: A case
report. J Clin Neurosci (accepted), 2014
14. Berjano P, Gautschi OP, Schils F, Tessitore E: eXtreme Lateral Interbody
Fusion (XLIF): How I do it. Acta Neurochir (accepted), 2014

Chapitres de livres

1. Boex C, Momjian S, Schaller K, Pollo C: La stimulation cérébrale comme traitement palliatif de l' épilepsie. In: Handbuch Schweizerische Epilepsiegesellschaft, 2013
2. Schaller K, Pereira VM: Intra-operative angiography in neurosurgery. In: Jolesz FA (ed): Intraoperative imaging and image-guided therapy. Springer: Heidelberg, New York, 2014
3. Robert T, Sajadi A, Corniola M: Neurochirurgie – Guide de survie de l' externe. Editions Vernazobres-Grego: Paris, 2013
4. Robert T, Sajadi A, Corniola M, Oumarou G, Richoz B, Simonin A, Zaldivar J: Les nerfs crâniens. Editions Vernazobres-Grego: Paris, 2014
5. Kiening KL, Sarrafzadeh AS: Zerebrales und neurophysiologisches Monitoring. In: Burchardi, Larsen, Marx, Muhl, Schölmerich (eds): Klinikmanual Intensivmedizin. Springer: Heidelberg, New York, 2014

Lettres, discussion, revues, perspectives, commentaires

1. Schatlo B, Eger AF, Schaller K, Tessitore E: Delayed paraplegia due to "surgiceloma" following thoracotomy for a Pancoast tumor. Acta Neurochir 155(7):1243-1244, 2013
2. Boëx C, Momjian S, Schaller K, Pollo C: La stimulation cérébrale électrique comme traitement palliatif de l' épilepsie. Epilepsie-Bericht Schweiz. Schweizerische Liga gegen Epilepsie, 2013
3. Meier RP, Muller YD, Gutzwiller EM, Spahr L, Negro F, Krause KH, Schaller K, Wandrey C, Sgroi A, Morel P, Bühler LH: Cell transplantation: current treatments and future prospects. Rev Med Suisse 10(435):1350-1355, 2014

Proceedings de conférence

1. Berkels B, Cabrilo I, Haller S, Rumpf M, Schaller K: Co-registration of intra-operative photographs and pre-operative MR images. In: Bildverarbeitung für die Medizin 2013. Springer, pp 122-127
2. Bijlenga P, Cabrilo I, Mendes Pereira V, Schaller K: Augmented surgery for aneurysm clipping. Swiss Archives of Neurology and Psychiatry 164(4 Suppl 6):6S, 2013
3. Molliqaj G, Tessitore E, Schatlo B, Schaller K: Accuracy of screw positioning and perioperative course of robot-assisted thoraco-lumbar surgery. Swiss Archives of Neurology and Psychiatry 164(4 Suppl 6):31S, 2013
4. Bruneau M, Amin-Hanjani S, Koroknay-Pal P, Bijlenga P, Jahromi BR, Lehto H, Kivisaari R, Schaller K, Charbel FT, Kahn S, Melot C, Niemela MR, Hernesniemi JA: A multicenter international study of surgical clipping unruptured very small intracranial aneurysms. Neurosurgery CNS oral presentations, doi: 10.1227/01.neu.0000452403.15403.b3, 2014

5. Sarrafzadeh A, Unterberg A: Intrakranieller Druck (ICP) und Hirnödem - Operative und konservative Therapie. DIVI Jahrbuch 2014/2015 for the DIVI meeting in December 2014.
6. Bartoli A, Tyrand R, Jenny B, Momjian S, Boëx C: In vivo human microstimulation and microrecording of a sclerotic hippocampus and a cortical dysplasia. Clinical Neurophysiology 125(Suppl 1):S1-S339, 2014

Présentations

1. Tessitore E: ALIF, lumbotomy and thoracotomy. EANS Hands-on course.
8-13 janvier 2013, Lyon (France)
2. Schaller K: Anatomy of the temporal lobe. EANS Hands-on course. 8-13
janvier 2013, Lyon (France)
3. Sarrafzadeh A: ICP revised? 30 Jahrestagung der Deutschen Gesellschaft
für Neurointensiv- und Notfallmedizin und der Deutschen
Schlaganfallgesellschaft. 24 janvier 2013, Mannheim (Allemagne)
4. Schaller K: Integrated Flat-Panel Computed Tomography, Vascular
Imaging and Navigation in Skull Base Surgery: An Initial Experience in
the Geneva Hybrid Operating Suite. 5th International Neurosurgical
Winter Congress (INWC). 10-16 février 2013, Chamonix (France)
5. Schaller K: Anything new about aneurysm surgery? 5th International
Neurosurgical Winter Congress (INWC). 10-16 février 2013, Chamonix
(France)

6. Schaller K: Myelonveränderungen und Myelondekompression bei Frakturen. Basiskurs der DWG. 20-23 février 2013, Kiel (Allemagne)
7. Schaller K: Spinale Tumoren und Infektionen. Neurochirurgie Update. 15-16 mars 2013, Köln (Allemagne)
8. Schaller K: Intraoperative cerebral angiography. Joint Meeting SNCF-DGNC. 20-23 mars 2013, Bordeaux (France)
9. Schaller K: La prise en charge moderne des tumeurs du cerveau. Neuroconférence interdisciplinaire. 28 mars 2013, Neuchâtel (Suisse)
10. Schaller K: Surgical resection of eloquent gliomas. EANS Young Neurosurgeons' Meeting. 4-7 avril 2013, London (Royaume-Uni)
11. Sarrafzadeh A: Neuromonitoring – Microdialysis. 7th European Neurocritical Care Multimodality Monitoring Course. 26-27 avril 2013, Berlin (Allemagne)
12. Schaller K: Image co-registration and intraoperative imaging in skull base surgery. Joint Meeting SENECDGNC. 14-17 mai 2013, San Sebastian (Espagne)

- 13.Schaller K: The role and the present state of aneurysm surgery. Joint Meeting SENECDGNC. 14-17 mai 2013, San Sebastian (Espagne)
- 14.Cabrilo I: Crâniotomies. Formation-cours HUG pour instrumentistes. 29 mai 2013, Genève (Suisse)
- 15.Dütschmann S, Schatlo B, Murek M, Wostrack M, Weiss C, Schaller K, Raabe A, Meyer B, Goldbrunner R, Franz K, Seifert V, Senft C: A German multi-center analysis of treatment effects and quality of life in adult patients with cranial ependymomas. Deutsche Gesellschaft für Neurochirurgie, 64 Jahrestagung. 26-29 mai 2013, Düsseldorf (Allemagne)
- 16.Tessitore E: From man to robotics: The evolution of spinal fusion. 2nd SFCNS Congress. 5-7 juin 2013, Montreux (Suisse)
- 17.Cabrilo I, Bijlenga P, Schaller K: Augmented reality in the surgery of cerebral aneurysms. 2nd SFCNS Congress. 5-7 juin 2013, Montreux (Suisse)
- 18.Perhac J, Mendes Pereira V, Schaller K, Brina O, Cabrilo I, Ratib O: An open-source software tool for processing and visualization of multi-

modality images in hybrid interventional suites. CARS 2013. 26-29 juin 2013, Düsseldorf (Allemagne)

19.Schaller K: DRG: un levier pour améliorer le parcours du patient? 500 jours plus tard: les DRG, contrainte ou opportunité? Conférence romande. 27 juin 2013, HUG, Genève (Suisse)

20.Tessitore E: Complications of atlanto-axial fixation. 2nd Annual Dandy Meeting. 27-29 juin 2013, Milano (Italie)

21.Tessitore E: ALIF, lumbotomy and thoracotomy. EANS Hands-on course. 2 juillet 2013, Lyon (France)

22.Sarrafzadeh A: Immunodepression related to the severity of the primary damage after aneurysmal SAH. International Vasospasm Meeting. 10 juillet 2013, Lucerne (Suisse)

23.Schaller K: Insular gliomas. 15th Congress of the Brazilian Academy of Neurosurgery and Joint Meeting with the German Academy of Neurosurgery. 23-27 juillet 2013, Belem (Brésil)

- 24.Schaller K: Epilepsy surgery. 15th Congress of the Brazilian Academy of Neurosurgery and Joint Meeting with the German Academy of Neurosurgery. 23-27 juillet 2013, Belem (Brésil)
- 25.Cabrilo I: Dural arteriovenous fistula: Clinical case. 5th SYNS Symposium. 30 août-1er septembre 2013, Pura (Suisse)
- 26.Bijlenga P: Unruptured intracranial aneurysms. 5th SYNS Symposium. 30 août-1er septembre 2013, Pura (Suisse)
- 27.Bijlenga P: Cavernomas. 5th SYNS Symposium. 30 août-1er septembre 2013, Pura (Suisse)
- 28.Tessitore E: Erreurs de niveau et de côté: encore d' actualité? Congrès annuel de la SGS. 31 août 2013, Bienne (Suisse)
- 29.Schaller K: Modern neurosurgical treatment of epilepsy. 25th Conference of the Society for Medical Innovation and Technology. 5-7 septembre 2013, Baden-Baden (Allemagne)
- 30.Gautschi OP: Notions de base de la chirurgie du rachis. Journée de formation en chirurgie rachidienne. 18 septembre 2013, Le Locle (Suisse)

31. Bijlenga P: Cerebral revascularization case selection using BOLD-MRI evaluation of the cerebrovascular reserve. Aesculap Acadely Hands-on Microvascular Revascularization Course: Strategies in Complex Aneurysm Surgery. 24-25 septembre 2013, Belinzona (Suisse)
32. Schaller K, Bijlenga P, Pereira V: The case battle on aneurysms. Update on strategies in complex aneurysm treatment. 26-27 septembre 2013, Bern (Suisse)
33. Gautschi OP, Schaller K, Tessitore E: Clinically relevant complications of posterior atlanto-axial fixation. Jahrestagung Sektion Wirbelsäule der Deutschen Gesellschaft für Neurochirurgie. 27-28 septembre 2013, Frankfurt (Allemagne)
34. Brodard J, Jenny B, Etemad-Sajadi A, Vernet O, Schaller K, Rilliet B: Cavernoma of the third ventricle: Study of a pediatric case and review of the literature. 41st Annual Meeting of the International Society of Pediatric Neurosurgery (ISPN). 29 septembre-3 octobre 2013, Mainz (Allemagne)
35. Gutzwiller EM, Smoll NR, Meier RPH, Chen JF: Percutaneous Balloon Compression for Trigeminal Neuralgia: A 10-Year Follow-Up. Congress of Neurological Surgeons, octobre 2013, San Francisco (Etats-Unis)

- 36.Schaller K: Funktionsdiagnostik durch Imaging vs. Stimulation. 49
Jahrestagung der Oesterreichischen Gesellschaft für Neurochirurgie. 10-
12 octobre 2013, Innsbruck (Autriche)
- 37.Schaller K: Epilepsy surgery: A specialty at the crossroads between
science and society. Lecture at Russian State Medical University. 16
octobre 2013, Moscou (Russie)
- 38.Gautschi OP: Clinically relevant complications of posterior atlanto-axial
fixation. Sektionstagung Wirbelsäule DGNC, 27-28 octobre 2013,
Frankfurt (Allemagne)
- 39.Sarrafzadeh A: Management of polytraumatized patients with brain
injury. German Society of Neurosurgeons' Meeting on Traumatic Brain
Injury and Peripheral Nerves. 15 novembre 2013, Seeheim (Allemagne)
- 40.Sarrafzadeh A: Principles of interdisciplinary management of
polytraumatized patients.
- 41.Schaller K: Wo ist was? Relevante externe kraniozerebrale Landmarken.
Kraniotomiekurs. 28-30 novembre 2013, Bern (Suisse)

42.Schaller K: Neuronavigation für die Zugangsplanung. Kraniotomiekurs.
28-30 novembre 2013, Bern (Suisse)

43.Schaller K: Clinoidektomie und Optikusdekompression intradural.
Kraniotomiekurs. 28-30 novembre 2013, Bern (Suisse)

44.Schaller K: Zugänge zur Orbita. Kraniotomiekurs. 28-30 novembre 2013,
Bern (Suisse)

45.Schaller K: Extended transsphenoidaler Zugang. Kraniotomiekurs. 28-30
novembre 2013, Bern (Suisse)

46.Gautschi OP: Einfluss von Rauchen auf postoperative Schmerzen und
gesundheitsbezogene Lebensqualität nach mikroskopischer Operation
bei lumbaler Diskushernie. 8 Jahrestagung der Deutschen
Wirbelsäulengesellschaft DWG. 5-7 décembre 2013, Frankfurt
(Allemagne)

47.Gautschi OP: Einfluss des Ausbildungsstandes eines Chirurgen auf
Komplikationsraten und gesundheitsbezogene Lebensqualität nach
mikroskopischer lumbaler Bandscheibenoperation. 8 Jahrestagung der
Deutschen Wirbelsäulengesellschaft DWG. 5-7 décembre 2013,
Frankfurt (Allemagne)

48. Tessitore E: Wrong site surgery and informed consent: The Malpractice concerns. 4th European Neurointerventional Course. 9-12 décembre 2013, Genève (Suisse)
49. Tessitore E: Lumbar disc surgery. 4th European Spine Neurointerventional Course. 9-12 décembre 2013, Genève (Suisse)
50. Tessitore E: Accuracy of free-hand C1-C2 fixation. 4th European Spine Neurointerventional Course. 9-12 décembre 2013, Genève (Suisse)
51. Bijlenga P: Mise à jour dans le screening, le management et le traitement des anévrismes intracrâniens. Post-graduate lecture to the Neurorehabilitation Division (HUG). Janvier 2014, Genève (Suisse)
52. Tessitore E: ALIF, lumbotomy and thoracotomy. EANS course. 14 janvier 2014, Lyon (France)
53. Sarrafzadeh A: ICP-monitoring. 31 Jahrestagung der Deutschen Gesellschaft für Neurointensiv- und Notfallmedizin und der Deutschen Schlaganfallgesellschaft. 24 janvier 2014, Frankfurt (Allemagne)

54. Bijlenga P: Infections du point de vue neurochirurgical. Post-graduate lecture to the Neurosurgery Division (HUG). 28 janvier 2014, Genève (Suisse)
55. Schaller K: Through Mathematics and Neuronavigation to Augmented Reality in Surgery. Lecture at Mount Sinai Hospital. 21 février 2014, New York City (Etats-Unis)
56. Schaller K: Spinale Tumore und Infektionen. Neurochirurgie Update. 26-27 mars 2014, Frankfurt (Allemagne)
57. Sarrafzadeh A: Microdialysis. Microdialysis consensus meeting. 2-4 avril 2014, Cambridge (Royaume-Uni)
58. Schaller K: Through Mathematics and Neuronavigation to Augmented Reality in Surgery. Lecture at UCSF Department of Neurosurgery. 4 avril 2014, San Francisco (Etats-Unis)
59. Tessitore E: Grade I lumbar degenerative spondylolisthesis: Do we always need fusion with bilateral screws and rods? Management of Degenerative Spinal Disease: State of the Art. 11-12 avril 2014, Brescia (Italie)

60. Bijlenga P: Physiopathologie de l' hypertension intracrânienne et analyse de signal. Post-graduate lecture given to the Neurosurgery Division (HUG). 7 mai 2014, Genève (Suisse)

61. Bijlenga P: Salle hybride reloaded: réalité augmentée en neurochirurgie, futur aux HUG. Post-graduate lecture given to the Clinical Neurosciences Department (HUG). 7 mai 2014, Genève (Suisse)

62. Gutwiller E, Cabrilo I, Radovanovic I, Schaller K, Boex C: Introduction of intraoperative monitoring of visual evoked potentials. Deutsche Gesellschaft für Neurochirurgie, 65 Jahrestagung. 11-14 mai 2014, Dresden (Allemagne)

63. Gondar R, Schaller K, Sarrafzadeh AS: Operate or not the very elderly neurosurgical patients: A single center 1-year survey. Deutsche Gesellschaft für Neurochirurgie, 65 Jahrestagung. 11-14 mai 2014, Dresden (Allemagne)

64. Gutwiller EM, Cabrilo I, Radovanovic I, Schaller K, Boëx C: Introduction of intraoperative monitoring of visual evoked potentials. Deutsche Gesellschaft für Neurochirurgie, 65 Jahrestagung. 11-14 mai 2014, Dresden (Allemagne)

- 65.Cabrilo I: Augmented Reality Neuronavigation. Congrès annuel de la société française de neurochirurgie. 21-24 mai 2014, Clermont-Ferrand (France)
- 66.Tessitore E: ALIF, lumbotomy and thoracotomy. EANS course. 3 juin 2014, Lyon (France)
- 67.Tessitore E: Spondilolistesi degenerative grado I: quale fusione scegliere? Postero-laterale, ALIF, TLIF, PLIF o XLIF? Meeting annual Sezione chirurgia spinale SINCH. 5-7 juin 2014, Catania (Italie)
- 68.Schaller K: Long-term outcome after hemispherotomy. Annual Meeting of the Swiss Society of Neurosurgery. 12-13 juin 2014, Zürich (Suisse)
- 69.Gutzwiller EM, Cabrilo I, Radovanovic I, Schaller K, Boëx C: Updated data of intraoperative monitoring of visual evoked potentials. Annual Meeting of the Swiss Society of Neurosurgery. 12-13 juin 2014, Zürich (Suisse)
- 70.Morrison M, Friedrich H, Momjian S, Landis BN: L' impact de la chirurgie hypophysaire trans-sphénoïdale sur la fonction olfactive ortho- et rétro-nasale. 101e Assemblée de printemps de la Société Suisse d' ORL et de CCF. 19-20 juin 2014, Saint-Gall (Suisse)

71.Schaller K: More neurosurgeons, enough work? GANS Business Meeting.

19-21 juin 2014, Innsbruck (Autriche)

72.Schaller K: Insular gliomas. Conference of the Center of Clinical Neuroscience. 7 juillet 2014, Essen (Allemagne)

73.Tessitore E: C1-C2 fixation: techniques and complications. Lecture at the Neurosurgery Department of Universitätsklinikum Essen. 22 juillet 2014, Essen (Allemagne)

74.Schaller K: Through neuronavigation and mathematics to augmented reality in neurovascular surgery. 8th Conference of the German-Japanese Society of Vascular Surgery. 21-24 août 2014, Karlsruhe (Allemagne)

75.Schaller K: Epilepsy surgery: A specialty on the thin line between IT, engineering and clinics. WBMTSR 2014. 26-27 août 2014, Lausanne (Suisse)

76.Cabrilo I, Schaller K, Bijlenga P: Augmented reality in bypass surgery. 2nd EANS Vascular Section Annual Meeting and Joint EANS-ESMINT Meeting. 2-4 septembre 2014, Nice (France)

77.Cabrilo I, Schaller K, Bijlenga P: Augmented reality in aneurysm surgery.

2nd EANS Vascular Section Annual Meeting and Joint EANS-ESMINT Meeting. 2-4 septembre 2014, Nice (France)

78.Barnaure I, Pollak P, Momjian S, Bally J, Horvath J, Lovblad KO, Boex C, Burkhard P, Vargas MI: Fusion of preoperative MRI and postoperative CT images for the evaluation of electrode position in STN DBS. XXth Symposium Neuroradiologicum of the World Federation of Neuroradiological Societies (WFNRS). 7-12 septembre 2014, Istanbul (Turquie)

79.Momjian S: Physiologie et physiopathologie de la circulation du liquide cérebrospinal. Post-graduate lecture (HUG, CHUV, CHCV). 10 septembre 2014, Genève (HUG; Suisse)

80.Jenny B: L' hydrocéphalie de l' enfant et son traitement par dérivation. Post-graduate lecture (HUG, CHUV, CHCV). 10 septembre 2014, Genève (HUG; Suisse)

81.Schaller K, Cabrilo I, Bijlenga P: 3D visualization in AVM surgery. 6th International Cerebrovascular and Skull Base Symposium. 25-27 septembre 2014, Marseille (France)

- 82.Schaller K, Cabrilo I, Bijlenga P: 3D visualization in skull base surgery. 6th International Cerebrovascular and Skull Base Symposium. 25-27 septembre 2014, Marseille (France)
- 83.Bijlenga P, Schaller K: Cranial base tumors: Observation, surgery, radiosurgery, radiotherapy or combined approaches. 6th International Cerebrovascular and Skull Base Symposium. 25-27 septembre 2014, Marseille (France)
- 84.Bijlenga P, Cabrilo I, Schaller K: Augmented reality for minimally invasive aneurysm clipping. 6th International Cerebrovascular and Skull Base Symposium. 25-27 septembre 2014, Marseille (France)
- 85.Bijlenga P, Rüfenacht D: 3D-shape analysis for aneurysm categorization. 6th International Cerebrovascular and Skull Base Symposium. 25-27 septembre 2014, Marseille (France)
- 86.Schaller K: Through Mathematics and Neuronavigation to Augmented Reality in Surgery. Pre-course workshop, EANS – 15th European Congress of Neurosurgery. 11-17 octobre 2014, Prague (République tchèque)

- 87.Bruneau M, Niemela M, Bijlenga P, Koroknay-Pal P, Lehto H, Kivisaari R, Behnam R, Melot C, Amin-Hanjani S, Schaller K, Charbel FT, Hernesniemi J: Surgical clipping for very small unruptured intracranial aneurysms: a multicenter international study. EANS – 15th European Congress of Neurosurgery. 11-17 octobre 2014, Prague (République tchèque)
- 88.Bijlenga P: Epidemiology of intracranial artery dissections from different perspectives in Switzerland, from a neurosurgeon' s perspective. Singer-Polignac Foundation Cervicocephalic Artery Dissection Research Symposium. 4 novembre 2014, Paris (France)
- 89.Schaller K: Wo ist was? Relevante externe kraniozerebrale Landmarken. Kraniotomiekurs. 13-15 novembre 2014, Bern (Suisse)
- 90.Schaller K: Neuronavigation für die Zugangsplanung. Kraniotomiekurs. 13-15 novembre 2014, Bern (Suisse)
- 91.Schaller K: Clinoidektomie und Optikusdekompression intradural. Kraniotomiekurs. 13-15 novembre 2014, Bern (Suisse)
- 92.Schaller K: Zugänge zur Orbita. Kraniotomiekurs. 13-15 novembre 2014, Bern (Suisse)

93.Schaller K: Extended transsphenoidaler Zugang. Kraniotomiekurs. 13-15
novembre 2014, Bern (Suisse)

94.Schaller K: Die postoperative Liquorfistel. Basiskurs der DWG: Intradurale
Pathologien. 29-30 novembre 2014, Berlin (Allemagne)