

## CURRICULUM VITAE

**Prof. Luigi Rigante, MD, MSc**

### **Titoli accademici ed incarichi professionali**

2023: Vicedirettore dell'Istituto di Neurochirurgia (Leitender Oberarzt), Klinikum Bremen Mitte, Germania

Ricercatore Associato in Neurochirurgia, Radboud University Medical Center Nijmegen and Amsterdam University Medical Center (Paesi Bassi)

2021/2023: Abilitazione Scientifica Nazionale Italiana, Professore di Seconda Fascia nel Settore Concorsuale 06/E3, Neurochirurgia e Chirurgia Maxillo-Facciale

2020 – 2023: Dirigente Medico Neurochirurgo (Oberarzt), Klinikum Bremen Mitte, Germania

2019-2020: Dirigente Medico Neurochirurgo, Radboud University Medical Center Nijmegen Netherlands

2016-2019: Dirigente Medico Neurochirurgo, Cleveland Clinic Abu Dhabi, UAE

From 2016: Professore associato di Chirurgia, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Cleveland, Ohio, USA

### **Titoli di studio**

2001-2022: Master Universitario di II Livello in “Tecniche avanzate di chirurgia vertebrale miniinvasiva”, Università Sapienza, Roma

2018: Fellow of the European Board of Neurological Surgery (FEBNS)

2015-2016: Fellowship in Neurochirurgia Cerebrovascolare, Radboud University Medical Center Nijmegen, Paesi Bassi

2015: Specialista in Neurochirurgia, Università Cattolica del Sacro Cuore, Roma

2013-2014: Fellowship di Chirurgia del Basicranio, Eberhard Karls University Tübingen, Germania

2012-2013: Fellowship di Ricerca in Chirurgia del Basicranio, , Weill Cornell Medical Center New York, USA

2008: Laurea Magistrale in Medicina e Chirurgia, Università Cattolica del Sacro Cuore, Roma

### **Premi e riconoscimenti**

EANS Observership Awards 2015, Eberhard Karls University Tübingen, Germany: “360° Access to Meckel’s cave – an anatomic study of microsurgical and endoscopic approaches”

12/06/2015: Premio migliore presentazione: Congresso Nazionale Società Polispecialistica Italiana Giovani Chirurghi

2013: Deutscher Akademischer Austauschdienst, “The Pain Component in the treatment of Intramedullary tumors”, Eberhard Karls University Tübingen, Germany

**Membro del Board Editoriale:** Clinical Neurology and Neurosurgery. **Reviewer:** Clinical Neurology and Neurosurgery; World Neurosurgery; Neurosurgery; JNLS-A; JNLS-B Skull Base; Neurosciences in Rural Practice; Journal of Spine and Neurosurgery; Journal of Health Science and Medical Research

### **Contributi in volumi pubblicati**

1. Roser F, Liebsch M, Rigante L. “Electrophysiological diagnostics in Chiari Malformation” in: R. Shane Tubbs, Mehmet Turgut, Rod J. Oskouian, Jerry W. Oakes The Chiari Malformations, Edition 2<sup>nd</sup>. Springer, 2020, pp. 301-311
2. Tatagiba M, Rigante L, et al. “Vestibular Schwannoma: Retrosigmoid Approach” in: Sekhar LN, Fessler RG. Atlas of Neurosurgical Techniques - Brain - Volume 2, Edition: 2nd, Thieme Medical Publisher, Stuttgart – New York, December 2015, pp.451-463

### **Articoli peer review, H-Index: Scopus 15, Google Scholar 17, WOS 14**

1. Rigante L, van Lieshout JH, Vergouwen MDI, van Griensven CHS, Vart P, van der Loo L, de Vries J, Vinke RS, Etmann N, Aquarius R, Gruber A, Mocco J, Welch BG, Menovsky T, Klijn CJM, Bartels RHMA, Germans MR, Hänggi D, Boogaarts HD. Time trends in the risk of delayed cerebral ischemia after subarachnoid hemorrhage: a meta-analysis of randomized controlled trials. *Neurosurg Focus*. 2022 Mar;52(3):E2. doi: 10.3171/2021.12.FOCUS21473.
2. Rigante L, Boogaarts HD, Bartels RHMA, Vart P, Aquarius R, Grotenhuis JA, Moudrous W, De Korte AM, de Vries J. Factors Associated with Subsequent Subarachnoid Hemorrhages in Patients with Multiple Intracranial Aneurysms. *World Neurosurg*. 2021 Jul 8:S1878-8750(21)01009-3. doi: 10.1016/j.wneu.2021.07.014.
3. Roser F, Rigante L. Endoscopic-Assisted Resection of Anterior Foramen Magnum Meningiomas through a Midline Suboccipital Subtonsillar Approach. *J Neurol Surg B Skull Base*, [https://doi.org/ 10.1055/s-0041-1727126](https://doi.org/10.1055/s-0041-1727126), accepted on 09/01/2021.
4. Ten Brinck MFM, Rigante L, Shimanskaya VE, Bartels RHMA, Meijer FJA, Wakhloo AK, de Vries J, Boogaarts HD. Limitations of Flow Diverters in Posterior Communicating Artery Aneurysms. *Brain Sci*. 2021 Mar 9;11(3):349. doi: 10.3390/brainsci11030349
5. Bianchi F, Di Muro L, Petrella G, Rigante L, Anile C. Metabolic changes during and after global prolonged reversible cerebral ischemia in pigs. Is it possible to change brain metabolism to maintain the brain alive? *Biomed J Sci and Tech Res*, Vol 25, Issue 2. DOI: 10.26717/BJSTR.2020.25.004168
6. Rigante L, Borghei-Razavi H, Recinos P, Roser F. An overview of endoscopy in neurologic surgery. *Cleve Clin J Med*. 2019, October; 86 (10): 16 ME-24ME
7. Roser F, Rigante L, Elhammady MS. Endoscope-assisted resection of a brainstem cavernoma. *Neurosurg Focus Video 1* (1):V6, 2019.
8. Rigante L, Navarro R, Roser F. Minimal exposure maximal precision ventriculoperitoneal shunt: how I do it. *Acta Neurochir (Wien)*. 2019 Aug;161(8):1619-1622 doi: 10.1007/s00701-019-03968-4.
9. Roser F, Dimostheni A, El Hammady MS, Rigante L. Response to: Phillips M. et al. “Safety of commercial airlift in patients with brain tumors: a case series. *Journal of Neuro-Oncology* (2018) 139:617–623
10. Roser F, Rigante L. The endoscope-assisted contralateral paramedian approach to large falxine meningiomas. *Acta Neurochir (Wien)*. 2018 Jan;160(1):79-82. doi: 10.1007/s00701-017-3382-y.
11. Rigante L, Moudrous W, de Vries J, Grotenhuis AJ, Boogaarts HD. Operating room waste: disposable supply utilization in neurointerventional procedures. *Acta Neurochir*, 2017 Dec;159(12):2337-2340.
12. Roman A, Najera E, Spiriev T, Ramina K, Rigante L, Tatagiba MS. Concomitant occurrence of vestibular schwannoma and epidermoid cyst in neurofibromatosis: Case description and review of the literature. *Arquivos Brasileiros de Neurocirurgia*, 16 Aug 2017. <https://doi.org.10/1055/2-0037-1606623>
13. Rigante L, Moudrous W, de Vries J, de Korte AM, Boogaarts HD. Gradual remodeling of the vertebrobasilar circulation with reconstructive treatment of a symptomatic fusiform basilar artery aneurysm. *Acta Neurol Belg*. 2017 Dec;117(4):961-964. doi: 10.1007/s13760-017-0801-z.
14. Papacci, Rigante L, Fernandez E, Meglio M, Montano N. Anterior cervical discectomy and interbody fusion with porous tantalum implant. Results in a series with long-term follow-up. *J Clin Neurosci*. 2016, 33:159-161
15. Kapoor R, Evins AI, Marcus J, Rigante L, Kubota M, Stieg PE. Selective Patch Angioplasty and Intraoperative Shunting in Carotid Endarterectomy: A Single-Center Review of 141 Procedures. *Cureus* 2015, 7(10): e 367. doi:10.7759/cureus.367
16. Rigante L, Herlan S, Tatagiba M, Stanojevic M, Hirt B, Ebner FH. Petrosectomy and topographical anatomy in traditional Kawase and Posterior Intradural Petrous Apecectomy (PIPA) approach: an anatomical study. *World Neurosurg* 2016 Feb;86:93-102. Doi: 10.1016/j.wneu.2015.08.083.
17. Tatagiba M, Rigante L, Mesquita Filho P, Ebner FH, Roser F. Endoscopic-assisted posterior intradural petrous apecectomy (PIPA) in petroclival meningiomas: a clinical series and assessment of perioperative morbidity. *World Neurosurg*. 2015 Dec;84(6):1708-18.. Doi: 10.1016/j.wneu.2015.07.033
18. Rigante L, Sigounas D, Kapoor R, Stieg PE, Knopman J. Acute orthostatic headache and diplopia due to a spinal subarachnoid haemorrhage. *Acta Neurologica Belgica* 2015 Sep;115(3):389-91. DOI: 10.1007/s13760-014-0353-4
19. Rigante L, Evins AI, Berra LV, Beer-Furlan A, Stieg PE, Bernardo A. Optic Nerve Decompression through a Supraorbital Approach. *J Neurol Surg B Skull Base*. 2015 Jun;76(3):239-47. Doi:10.1055/s-0034-1543964.
20. Beer-Furlan A, Evins AI, Rigante L, Anichini G, Stieg PE, Bernardo A. The Pterional Port in Dual-Port Endoscopy: A 2D and 3D cadaveric study. *J Neurol Surg B Skull Base*. 2015 Feb; 76(1):80-6. Doi: 10.1055/s-0034-1390398.

21. Beer-Furlan A, Gomes Pinto F, Evins AI, Rigante L, Anichini G, Stieg PE, Bernardo A. Interhemispheric Endoscopic Fenestration of the Lamina Terminalis through a Single Frontal Burr Hole". *J Neurol Surg B Skull Base*. 2014 Aug; 75(4):268-72. Doi: 10.1055/s-0034-1371521.
22. Beer-Furlan A, Gomes Pinto F, Texeira M, Rigante L, Evins AI, Bernardo A. Letter to the Editor: Endoscopic Fenestration of the Lamina Terminalis: Alternatives to the Classic Third Ventriculostomy". *J Neurol Surg A Cent Eur Neurosurg*. 2014 Sep; 75(5):410-2. Doi:10.1055/s-0034-1368693.
23. Sabatino G, Della Pepa GM, Bianchi F, Capone G, Rigante L, Albanese A, Maira G, Marchese E. Autologous dural substitutes: A prospective study. *Clin Neurol Neurosurg*. 2014 Jan; 116:20-3. Doi 10.1016/j.clineuro.2013.11.010.
24. Beer-Furlan A, Evins AI, Rigante L, Anichini G, Stieg PE, Bernardo A. Dual-Port 2D and 3D Endoscopy: Expanding the Limits of the Endonasal Approach for Skull Base Lesions with Lateral Extension. *J Neurol Surg B Skull Base*. 2014 Jun; 75(3):187-97. Doi: 10.1055/s-0033-1364165.
25. Beer-Furlan A, Evins AI, Rigante L, Burrel J, Anichini G, Stieg PE, Bernardo A. Endoscopic Extradural Anterior Clinoideotomy and Optic Nerve Decompression through a Pterional Port. *Journal of Clinical Neuroscience*. 2014 May; 21(5):836-40. Doi: 10.1016/j.jocn.2013.10.006.
26. Lozupone E, Martucci M, Rigante L, Gaudino S, Di Lella G, Colosimo G. MRI findings of primary intradural Ewing's sarcoma of the cauda equina: case report and review of the literature. *The Spine J*. 2014 Apr; 14(4):e7e11. Doi: 10.1016/j.spinee.2013.09.024. Review
27. Rigante L, Evins AI, Burrel J, Beer-Furlan AL, Bernardo A. Complete Bilateral Arcuate Foramina and Atlantoaxial Subluxation. *Acta Neurochir (Wien)*. 2013 Dec; 155 (12):2357-8. doi:10.1007/s00701-013.1899-2.
28. Sabatino G, Rigante L, Minella D, Novelli G, Della Pepa GM, Esposito G, Albanese A, Maira G, Marchese E. Transcriptional profile characterization for the identification of peripheral blood biomarkers in patients with cerebral aneurysm. *Journal of Biological Regulators & Homeostatic Agents*. 2013 Juli-Sep; 27(3):729-38
29. Montano N, Rigante L, Papacci F, Novello M, Lauriola L, Meglio M. Intradural extramedullary lesion of the conus medullaris. *J Clin Neurosci*. 2013 May; 20(5):715, 765
30. Sturiale CL, Rigante L, Puca A, Di Lella G, Albanese A, Marchese E, Di Rocco C, Maira G, Colicchio G. Angioarchitectural features of brain arteriovenous malformations associated with seizures: a single Center retrospective series. *Eur J Neurol*. 2013 May; 20(5):849-55. doi: 10.1111/ene.12085.
31. De Bonis P, Sturiale CL, Anile C, Gaudino S, Mangiola A, Martucci M, Rigante L, Pompucci A. Decompressive craniectomy, interhemispheric hygroma and hydrocephalus: a timeline of events? *Clin Neurol Neurosurg*. 2013 Jan 3. doi:pii: S0303-8467(12)00621-X10.1016/j.clineuro.2012.12.011.
32. Rigante L, Novello M, Massimi L, Caldarelli M. A cortical cystic epileptogenic lesion: tanyctic ependymoma. *v Acta Neurol Belg*. 2013 Dec; 113(4):523-5. doi: 10.1007/s13760-012-0157-3. Epub 2012 Nov 16
33. Rigante L, Tufo T, Scoppettuolo G, Donato C, Mangiola A. Brain abscess developing in a non-operated spontaneous intracerebral haemorrhage: case report and literature review. *Turkish Neurosurgery* 2013, Vol. 23 (6): 835-9. DOI: 10.5137/1019-5149.JTN.6591-12.2
34. Sabatino G\*, Rigante L\*, Marchese E, Albanese A, Esposito G, Capone G, Maira G. Anterior subtemporal approach for posterolateral brainstem cavernomas: report of ten cases. *Acta Neurochir (Wien)*. 2012 Nov; 154(11):2009-16. doi: 10.1007/s00701-012-1496-9. Epub 2012 Sep 9. \* *both authors contributed equally*
35. Sturiale CL, De Bonis P, Rigante L, Calandrelli R, D'Arrigo S, Pompucci A, Mangiola A, D'apolito G, Colosimo C, Anile C. Do traumatic brain contusions increase in size after decompressive craniectomy? *J Neurotrauma*. 2012 Dec 10; 29(18):2723-6. doi: 10.1089/neu.2012.2556.
36. Mangiola A, Calcagni ML, De Bonis P, Rigante L, Pompucci A, La Valle MD, Indovina L, Giordano A, Anile C. Cerebral metabolic rate for glucose of NPH patients increases in shunt-responders. *J Neurol Neurosurg Psychiatry*. 2012 Apr; 83(4):466-7. doi: 10.1136/jnnp-2011-301655.
37. De Bonis P, Pompucci A, Mangiola A, Rigante L, Anile C. Post-traumatic hydrocephalus after decompressive craniectomy: an underestimated risk factor. *J Neurotrauma*. 2010 Nov; 27(11):1965-70. doi: 10.1089/neu.2010.1425
38. Mangiola A, Anile C, Pompucci A, Capone G, Rigante L, De Bonis P. Glioblastoma therapy: going beyond Hercules Columns. *Expert Rev Neurother*. 2010 Apr; 10(4):507-14. doi: 10.1586/ern.09.158. Review.
39. De Bonis P, Pompucci A, Mangiola A, D'Alessandris QG, Rigante L, Anile C. Decompressive craniectomy for the treatment of traumatic brain injury: does an age limit exist? *J Neurosurg*. 2010 May; 112(5):1150-3. doi: 10.3171/2009.7.JNS09505.