

Walter Stummer es director del Servicio de Neurocirugía del Hospital de la Universidad de Münster, en Alemania.



2000 operaciones en el año 2011.

2 microscopios con plenas capacidades de cirugía guiada por fluorescencia.

El departamento cuenta con una cátedra de investigación enfocada a esta metodología.

Es líder mundial en la introducción y aplicación de tecnologías avanzadas de fluorescencia.

Desarrolló el ahora ampliamente usado método 5-ALA en colaboración con Zeiss.

Artículos publicados como primer autor

1: Stummer W, Meinel T, Ewelt C, Martus P, Jakobs O, Felsberg J, Reifenberger G. Prospective cohort study of radiotherapy with concomitant and adjuvant temozolomide chemotherapy for glioblastoma patients with no or minimal residual enhancing tumor load after surgery. J Neurooncol. 2012 May;108(1):89-97. Epub 2012 Feb 4. PubMed PMID: 22307805; PubMed Central PMCID: PMC3337400.

2: Stummer W, van den Bent MJ, Westphal M. Cytoreductive surgery of glioblastoma as the key to successful adjuvant therapies: new arguments in an old discussion. Acta Neurochir (Wien). 2011 Jun;153(6):1211-8. Epub 2011 Apr 9. PubMed PMID: 21479583.

- 3: Stummer W, Nestler U, Stockhammer F, Krex D, Kern BC, Mehdorn HM, Vince GH, Pichlmeier U. Favorable outcome in the elderly cohort treated by concomitant temozolomide radiochemotherapy in a multicentric phase II safety study of 5-ALA. *J Neurooncol.* 2011 Jun;103(2):361-70. Epub 2010 Oct 5. PubMed PMID: 20922459.
- 4: Stummer W. Comment to the article: Magnetic resonance spectroscopic imaging for visualization of the infiltration zone of glioma. *Cent Eur Neurosurg.* 2011 May;72(2):70. PubMed PMID: 21698825.
- 5: Stummer W, Tonn JC, Mehdorn HM, Nestler U, Franz K, Goetz C, Bink A, Pichlmeier U; ALA-Glioma Study Group. Counterbalancing risks and gains from extended resections in malignant glioma surgery: a supplemental analysis from the randomized 5-aminolevulinic acid glioma resection study. *Clinical article. J Neurosurg.* 2011 Mar;114(3):613-23. Epub 2010 Apr 16. PubMed PMID: 20397896.
- 6: Stummer W, Kamp MA. The importance of surgical resection in malignant glioma. *Curr Opin Neurol.* 2009 Dec;22(6):645-9. Review. PubMed PMID: 19738467.
- 7: Stummer W, Beck T, Beyer W, Mehrkens JH, Obermeier A, Etminan N, Stepp H, Tonn JC, Baumgartner R, Herms J, Kreth FW. Long-sustaining response in a patient with non-resectable, distant recurrence of glioblastoma multiforme treated by interstitial photodynamic therapy using 5-ALA: case report. *J Neurooncol.* 2008 Mar;87(1):103-9. Epub 2007 Nov 23. PubMed PMID: 18034212.
- 8: Stummer W, Reulen HJ, Meinel T, Pichlmeier U, Schumacher W, Tonn JC, Rohde V, Oppel F, Turowski B, Woiciechowsky C, Franz K, Pietsch T; ALA-Glioma Study Group. Extent of resection and survival in glioblastoma multiforme: identification of and adjustment for bias. *Neurosurgery.* 2008 Mar;62(3):564-76; discussion 564-76. PubMed PMID: 18425006.
- 9: Stummer W. Mechanisms of tumor-related brain edema. *Neurosurg Focus.* 2007 May 15;22(5):E8. Review. PubMed PMID: 17613239.
- 10: Stummer W. Perspectives in central nervous system malignancies. *IDrugs.* 2006 Jun;9(6):412-4. PubMed PMID: 16752310.
- 11: Stummer W, Pichlmeier U, Meinel T, Wiestler OD, Zanella F, Reulen HJ; ALA-Glioma Study Group. Fluorescence-guided surgery with 5-aminolevulinic acid for resection of malignant glioma: a randomised controlled multicentre phase III trial. *Lancet Oncol.* 2006 May;7(5):392-401. PubMed PMID: 16648043.
- 12: Stummer W, Tonn JC. [How useful are microsurgical operations in the treatment concept for glioblastoma multiforme]. *MMW Fortschr Med.* 2004 Apr 1;146(14):28-30. Review. German. PubMed PMID: 15344748.
- 13: Stummer W, Reulen HJ, Novotny A, Stepp H, Tonn JC. Fluorescence-guided resections of malignant gliomas—an overview. *Acta Neurochir Suppl.* 2003;88:9-12. PubMed PMID: 14531555.
- 14: Stummer W, Steiger HJ. Resection of glioblastoma. *J Neurosurg.* 2002 Apr;96(4):809-10; author reply 810. PubMed PMID: 11990829.
- 15: Stummer W, Novotny A, Stepp H, Goetz C, Bise K, Reulen HJ. Fluorescence-guided resection of glioblastoma multiforme by using 5-aminolevulinic acid-induced porphyrins: a prospective study in 52 consecutive patients. *J Neurosurg.* 2000 Dec;93(6):1003-13. PubMed PMID: 11117842.
- 16: Stummer W, Stocker S, Novotny A, Heimann A, Sauer O, Kempfski O, Plesnila N, Wietzorrek J, Reulen HJ. In vitro and in vivo porphyrin accumulation by C6 glioma cells after exposure to 5-

aminolevulinic acid. J Photochem Photobiol B. 1998 Sep;45(2-3):160-9. PubMed PMID: 9868806.

17: Stummer W, Stocker S, Wagner S, Stepp H, Fritsch C, Goetz C, Goetz AE, Kiefmann R, Reulen HJ. Intraoperative detection of malignant gliomas by 5-aminolevulinic acid-induced porphyrin fluorescence. Neurosurgery. 1998 Mar;42(3):518-25; discussion 525-6. PubMed PMID: 9526986.

18: Stummer W, Stepp H, Möller G, Ehrhardt A, Leonhard M, Reulen HJ. Technical principles for protoporphyrin-IX-fluorescence guided microsurgical resection of malignant glioma tissue. Acta Neurochir (Wien). 1998;140(10):995-1000. PubMed PMID: 9856241.

19: Stummer W, Hassan A, Kempfski O, Goetz C. Photodynamic therapy within edematous brain tissue: considerations on sensitizer dose and time point of laser irradiation. J Photochem Photobiol B. 1996 Nov;36(2):179-81. PubMed PMID: 9002256.

20: Stummer W, Betz AL, Shakui P, Keep RF. Blood-brain barrier taurine transport during osmotic stress and in focal cerebral ischemia. J Cereb Blood Flow Metab. 1995 Sep;15(5):852-9. PubMed PMID: 7673378.

21: Stummer W, Baethmann A, Murr R, Schürer L, Kempfski OS. Cerebral protection against ischemia by locomotor activity in gerbils. Underlying mechanisms. Stroke. 1995 Aug;26(8):1423-9; discussion 1430. PubMed PMID: 7631348.

22: Stummer W, Betz AL, Keep RF. Mechanisms of brain ion homeostasis during acute and chronic variations of plasma potassium. J Cereb Blood Flow Metab. 1995 Mar;15(2):336-44. PubMed PMID: 7860667.

23: Stummer W, Weber K, Tranmer B, Baethmann A, Kempfski O. Reduced mortality and brain damage after locomotor activity in gerbil forebrain ischemia. Stroke. 1994 Sep;25(9):1862-9. PubMed PMID: 8073470.

24: Stummer W, Keep RF, Betz AL. Rubidium entry into brain and cerebrospinal fluid during acute and chronic alterations in plasma potassium. Am J Physiol. 1994 Jun;266(6 Pt 2):H2239-46. PubMed PMID: 8023986.

25: Stummer W, Götz C, Hassan A, Heimann A, Kempfski O. Kinetics of Photofrin II in perifocal brain edema. Neurosurgery. 1993 Dec;33(6):1075-81; discussion 1081-2. PubMed PMID: 8133993.

26: Stummer W, Weber K, Schürer L, Baethmann A, Kempfski O. Electrical impedance, rCBF, survival and histology in Mongolian gerbils with forebrain ischaemia. Acta Neurochir Suppl (Wien). 1990;51:177-9. PubMed PMID: 2089890.

From:

<https://neurocirugiacontemporanea.es/wiki/> - **Neurocirugía Contemporánea**
ISSN 1988-2661

Permanent link:

https://neurocirugiacontemporanea.es/wiki/doku.php?id=stummer_walter

Last update: **2025/05/03 23:59**

