CURRICULUM VITAE

DR. MED. MARINELLA GUGLIOTTA

PERSÖNLICHE ANGABEN

Adresse:	Bertiswilhöhe 12 6023 Rothenburg
Geburtsdatum:	09.10.1971
Nationalität:	Schweiz
Zivilstand:	ledig

SCHULBILDUNG

1978 - 1984	Primarschule, Reussbuehl (LU)
1984 - 1986	Sekundarschule Reussbuehl (LU)

1978 - 1986	Corso integrativo di Lingua e Cultura Generale Italiana, Luzern, (Italienische Privatschule, parallel zum regulären schweiz. Unterricht mit Sekundarschul-Abschluss)
1986 - 1992	Matura Typ B, Kantonsschule, Reussbuehl (LU)
1992 - 2000	Medizinstudium, Universität Zürich

WISSENSCHAFTLICHE TÄTIGKEIT WÄHREND DES STUDIUMS

01.10. 93 – 31.07.94	Wissenschaftliche Assistentin, Institut für Physiologie, Universität Zürich Direktor: Prof. Dr. med. Christian Bauer

FACHÄRZTLICHE WEITERBILDUNG

01.2001 - 11.2004	Ausbildungs-Assistenzärztin Neurochirurgische Klinik Kantonsspital Aarau, Chefarzt: Prof. Dr. med. Hans Landolt Davon 6 Monate Assistenzärztin auf der Chirurgischen/ Neurochirurgischen Intensivstation Chefarzt: Dr. med. Kurt Reist
11.2004 - 11.2005	Assistenzärztin im Rahmen des Fremdjahres Chirurgische Klinik Kantonsspital Luzern, Chefarzt: Prof. Dr. med. Reto Babst
01.2006 - 12.2006	Post Doctoral Associate/ Clinical and Research Fellowship Harold F. Young Neurosurgical Center, Medical Center of Virginia (MCV)/Virginia Commonwealth University (VCU) Richmond, VA, USA Superviser: M. Ross Bullock, M.D., Ph.D, Reynolds Professor Department of Neurosurgery and Clinical Director, Neuroscience Intensive Care Unit Chairman: Harold F. Young, M.D. Professor and McGlothin Chairman, Department of Neurosurgery and director of the Harold F. Young Neurosurgical Center
01.2007 - 12.2007	Ausbildungs-Assitenzärztin Neurochirurgische Klinik

	Kantonsspital Aarau, Chefarzt: Prof. Dr. med. Hans Landolt
01.2008 - 12.2008	Oberärztin i.V. Neurochirurgische Klinik Universitätsspital Lausanne (CHUV) Chefarzt: Prof. Dr. med. Marc Levivier, PhD
01.2009 – 12.2012	Oberärztin Neurochirurgische Klinik Kantonsspital Aarau, Chefarzt: Prof. Dr. med. Hans Landolt
July-August 2009	Observership an der University of Miami The Miami Project to Cure Paralysis An International Center for Spinal Cord Injury Research Miller School of Medicine Lois Pope LIFE Center, Miami, Florida USA Department Chairperson: W. Dalton Dietrich, PhD, Scientific Director Clinical Director of the Neurotrauma Program: Ross M. Bullock, MD PhD
01.2013 – 09.2014	Oberärztin mit besonderer Funktion (MBF) Neurochirurgische Klinik sowie Konsiliarische und operative Tätigkeit im Spital Zofingen Kantonsspital Aarau, Chefarzt: Prof. Dr. med. Javier Fandino
02.2015 - 10.2022	Fachärztin für Neurochirurgie, speziell Wirbelsäulenchirurgie und interventionelle Schmerzmedizin Neuro- und Wirbelsäulenzentrum, Cham
09.2015 – 09.2021	Selbständige Tätigkeit als Fachärztin für Neurochirurgie, Wirbelsäulenchirurgie und interventionelle Schmerzmedizin Spital Schwyz sowie in der Tellklinik AG Ibach
04.2016 - heute	Belegärztin für Neurochirurgie, Wirbelsäulenchirurgie und interventionelle Schmerzmedizin Andreasklinik Hirslanden Cham
01.10.2022- 31.12.2024	Selbständige Tätigkeit als Fachärztin für Neurochirurgie, Wirbelsäulenchirurgie und interventionelle Schmerzmedizin CuraSpina, Interdisziplinäres Zentrum für Neurochirurgie, Wirbelsäulenchirurgie und interventionelle Schmerzmedizin, Cham
01.01.2025 - heute	Inhaberin und selbständige Tätigkeit Praxis Neurochirurgie Cham Zug

DISSERTATION

2005	Tirilazad Mesylate after Aneurysmal Subarachnoid Hemorrhage: Experience of a Single Center in Switzerland

FACHARZTPRÜFUNG

04.2009	Facharztprüfung (FMH) für Neurochirurgie, Titelerteilung 2010

INTERDISZIPLINÄRE SCHWERPUNKTE/ FÄHIGKEITSAUSWEIS/ ZERTIFIKATE

- DAS UZH MedLaw

- CAS UZH Law for Medics and Health Professionals

- Zertifikat als zertifizierte medizinische Gutachterin SIM

- interdisziplinärer Schwerpunkt für Wirbelsäulenchirurgie SGNC / SO

PUBLIKATIONEN

Gugliotta M, da Costa BR, Dabis E, Theiler R, Jüni P, Reichenbach S, Landolt H, Hasler P.: Surgical versus conservative treatment for lumbar disc herniation: a prospective cohort study. BMJ Open. 2016 Dec 21;6(12).

Zaldivar-Jolissaint JF, Mascott C, Gugliotta M, Duff JM. : Extensive bone remodeling from a solitary fibrous tumor of the cervical spine. Spine J. 2016 Oct;16(10):e699-e700.

Rossi-Mossuti F, Fisch U, Schoettker P, Gugliotta M, Morard M, Schucht P, Schatlo B, Levivier M, Walder B, Fandino J.: Surgical Treatment of Severe Traumatic Brain Injury in Switzerland: Results from a Multicenter Study. J Neurol Surg A Cent Eur Neurosurg. 2016 Jan;77(1):36-45.

Dimitriou J, Levivier M, Gugliotta M. : Comparison of Complications in Patients Receiving Different Types of Intracranial Pressure Monitoring: A Retrospective Study in a Single Center in Switzerland. World Neurosurg. 2016 May;89:641-6.

Sun D, Gugliotta M, Rolfe A, Reid W, McQuiston AR, Hu W, Young H.J : Sustained survival and maturation of adult neural stem/progenitor cells after transplantation into the injured brain. Neurotrauma. 2011 Jun;28(6):961-72.

Gugliotta M, Levasseur J, Sun D, Spiess B, Bullock RM: Effect of Oxygen Delivery on the Metabolic Dynamics of Glucose in the Normal and Lateral Fluid Percussion Injured Rat Brain. Journal of Neurotrauma 2008 July; 25(7): 873.

Gugliotta M, Gilman C, Spiess B, Young H, Bullock MR: Clinical Safety in Early Administration of the Perfluorocarbon OxycyteTM to Improve Cerebral Oxygenation after Severe Traumatic Brain Injury. Journal of Neurotrauma 2008 July; 25(7): 933.

Hartings JA, Gugliotta M, Gilman C, Strong AJ, Tortella FC, Bullock MR: Repetitive spreading depolarizations in severe brain trauma: a case study. Neurol Res. 2008 Jun 3.

Merenda A, Gugliotta M , Holloway R, Levasseur JE, Alessandri B, Sun D and Bullock MR: Validation of Brain Extracellular Glycerol as an Indicator of Cellular Membrane Damage due to Free Radical Activity after traumatic brain injury. Neurotrauma. 2008 May;25(5):527-37.

Alessandri B, Gugliotta M, Levasseur J, Bullock MR: Lactate and glucose as energy substrates and their role in traumatic brain injury and therapy. Future Neurology, March 2009, Vol. 4, No. 2, Pages 209-228.

Sun D, Gugliotta M ,Fillmore H, Hu W, Holloway K, Bullock MR, Young H: Adult Human Neural Stem/Progenitor Cells Isolated From Neurosurgical Resection Tissues as a Cell Source for Transplantation Follwing TBI. Journal of Neurotrauma 2008 July; 25(7): 891.

Rossi-Mossuti F, Fisch U, Rebetez M.L, Schoettker P, Gugliotta M, Kothbauer K, Morard M, Schucht P, Levivier M, Walder B, Fandino J: Standards for Surgical Treatment of Severe Traumatic Brain Injury in Switzerland: Results of a Nationwide Study. J Neurol Surg A Cent Eur Neurosurg 2014; 75 - p67.

BUCHKAPITEL

Gugliotta M, Bullock MR: Pathophysiology of TBI. Book chapter for *Neurotrauma and Critical Care of the Brain*, Editors: Jack Jallo, MD, PhD, FACS; Christopher M. Loftus, MD, FACS, Publisher: Thieme Medical Publishers Inc., Date available: June 2009.

Gugliotta M, Rubiano A, Bullock RM: Presión intracraneana y edema cerebral, Book chapter for *Neurotrauma y Neurointensivismo:* Editors: Andres Rubiano, Rafael Pérez, 1st edition, 2008, Publisher: Editorial Distribuna (Bogota).

ABSTRACTS, POSTERS UND VORTRÄGE

Gugliotta M, Berkmann S, Marbacher S, Khamis A, Fathi A, Fandino J: Radiomorphometric Outcome after Balloon Kyphoplasty in Stable Vertebral Body Compression Fractures. . American Association of Neurological Surgeons (AANS) 80th Annual Scientific Meeting. 2012, Miami, USA.

Gugliotta M, Duff JM, Levivier M: Minimally Invasive Spinal Tumor Surgery. American Association of Neurological Surgeons (AANS) 80th Annual Scientific Meeting. 2012, Miami, USA.

Gugliotta M, Berkmann S, Marbacher S, Khamis A, Fathi A, Fandino J: Percutaneous Treatment of Unstable Thoracolumbar Fractures Including Reconstruction of the Anterior Spinal Column: Technical Note. American Association of Neurological Surgeons (AANS) 80th Annual Scientific Meeting. 2012, Miami, USA.

Gugliotta M: Minimalinvasive spinale Neurochirurgie: maximale Effektivität der operativen Behandlung unter minimaler Belastung des Patienten. State-of-the-art in der Neurochirurgie. Jubiläum 40 Jahre Symposium, Kantonsspital Aarau, Schweiz, September 2012.

Fathi AR, Heimberg M, Nevzati E, Marbacher S, Gugliotta M, Hidalgo ET, Remonda L, Fandino J: Validation and accuracy of intra-operative CT scan using the digital substraction angiography suite for assessment of pedicle screw placement. American Association of Neurological Surgeons (AANS) 80th Annual Scientific Meeting. 2012, Miami, USA.

Gugliotta M, Berkmann S, Marbacher S, Khamis A, Fathi A, Fandino J: Percutaneous Treatment of Unstable Thoracolumbar Fractures Including Reconstruction of the Anterior Spinal Column. Gemeinsamen Jahrestagung der Schweizerischen Gesellschaft für Neurochirurgie (SGN), der Schweizerischen Gesellschaft zum Studium des Schmerzes (SGSS), der Schweizerischen Kopfwehgesellschaft (SKG) und der Interessengruppe Neurochirurgisches Operationspersonal Schweiz (IG-NOPPS), Interlaken, November 2011.

Gugliotta M: Neurochirurgische Spinale Chirurgie, Nachbehandlung und Outcome. Weiterbildung für Physiotherapeuten, Uniklinik Balgrist, Zürich, Oktober 2010.

Gugliotta M, Levasseur J, Gilman C, Spiess B, Bullock RM: The Effect of Early Administration of the Perfluorocarbon Oxycyte^{TM} on the Lactate/Pyruvate Ratio after Severe Trauamatic Brain Injury. The Second Joint Symposium of the International and National Neurotrauma Societies, Santa Barbara,CA, USA, September 2009.

Gugliotta M, Gilman C, Spiess B, Bullock RM: Free Radical Production in TBI Patients After Treatment with Oxycyte^{TM} and Normobaric Hyperoxia. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, MA, USA, August 2009.

Duff J, Pralong E, Debadisse D, Levivier M, Gugliotta M: Results of Critical Screw Placement in the Posterior Cervical Spine Using Image Guidance and Direct Screw Stimulation Techniques. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, MA, USA, August 2009.

Gugliotta M, Levasseur J, Sun D, Spiess B, Bullock RM: Effect of Oxygen Delivery on the Metabolic Dynamics of Glucose in the Normal and Lateral Fluid Percussion Injured Rat Brain. The 26th Annual National Neurotrauma Society Symposium, Orlando, FL, MO, USA, July 2008.

Gugliotta M, Gilman C, Spiess B, Young H, Bullock MR: Clinical Safety in Early Administration of the Perfluorocarbon OxycyteTM to Improve Cerebral Oxygenation after Severe Traumatic Brain Injury. The 26th Annual National Neurotrauma Society Symposium, Orlando, FL, MO, USA, July 2008.

Sun D, Gugliotta M , Fillmore H, Hu W, Holloway K, Bullock MR, Young H: Adult Human Neural Stem/Progenitor Cells Isolated From Neurosurgical Resection Tissues as a Cell Source for Transplantation Follwing TBI. The 26th Annual National Neurotrauma Society Symposium, Orlando, FL, MO, USA, July 2008.

Gugliotta M, Nicora RW, Spiess BD, Gilman C, and Bullock MR: Oxycyte^{TM}: Data from the First Trial at MCV Neurosurgery Department, April 23th, 2007, Hennepin County Medical Center, Minneapolis, MN USA.

Gugliotta M, Levasseur JE, Rockswold GJ, Sun D and Bullock MR: Changes in metabolic rates of 14C-2DG after TBI and hyperbaric hyperoxia April 23th, 2007, Hennepin County Medical Center, Minneapolis, MN USA.

Gugliotta M, Nicora RW, Spiess BD, Gilman C, and Bullock MR: The Perfluorocarbon Oxycyte^{TM} Increases Brain Oxygen Delivery and Optimizes Neurochemistry Following Human Traumatic Brain Injury. AANS April 2007 Washington DC, USA.

Gugliotta M, Merenda A, Levasseur JE, Alessandri B, Sun D and Bullock MR: Does Glycerol, a Microdialysate Analyte, Reflect Hydroxyl Radical Release after TBI?. AANS April 2007 Washington DC, USA.

Gugliotta M, Clausen T, Khaldi A, Reinert M, Bullock R: Can glutamate be used as an early indicator of disturbances in cerebral energy metabolism? The 24th Annual National Neurotrauma Society Symposium, St. Louis, MO, USA, July 2006.

Gugliotta M, Bullock R: Can Microdialysis Predict High ICP after Severe Human TBI? The 24th Annual National Neurotrauma Society Symposium, St. Louis, MO, USA, July 2006.

Gugliotta M, Schwyzer L, Mironov A, Reist K, Landolt H: Correlation Between Initial Treatment Method after Subarachnoid Hemorrhage and Chronic Posthemorrhagic Hydrocephalus. A Retrospective Study in one single center in Switzerland. World Federation of Neurosurgical Societies, 13th World Congress of Neurosurgery, Marrakesh, June 2005.

Mironov A, Gugliotta M.: Efficacy of Endovascular Treatment for Aneurysms and Vasospasm of Middle Cerebral Artery. I. Alpe-Adria Meeting of Neuroradiologists, Graz, Austria, October 8 – 9, 2004.

Gugliotta M, Cesnulis E, Mironov A, Reist K, Fandino J, Landolt H: Incidence of cerebral vasospasm in patients treated with and without tirilazad depending on Hunt and Hess classification and Fisher grade on admission. World Congress of Neurosurgery, Sydney, Australia 2001.

Gugliotta M, Cesnulis E, Mironov A, Reist K, Reist U, Bissat K, Landolt H: The Role of Tirilazad in the Management of Cerebral Vasospasm, Swiss – Japanese Joint Conference on Cerebral Aneurysm, Zürich, May 5-6, 2001.

Cesnulis E, Gugliotta M, Reist K, Mironov A, Landolt H: Glascow outcome scale after cerebral vasospasm and ist correlation with Hunt and Hess Grade on admission. World Congress of Neurosurgery, Sydney, Australia 2001.

Cesnulis E, Gugliotta M, Hefti M, Landolt H.: Ruptured Aneurysm: Microsurgical Clipping or Endovascular detachable coil. Joint Meeting of the Belgian and Swiss Societies of Neurosurgery, Pontreasina, March 21-23, 2001.

STUDIENTEILNAHMEN

Principal Investigator:

- Protocol title: A Randomized, Placebo Controlled, Double-Blind, Single Dose, Dose Escalation Study to Evaluate the Safety and Tolerability of Oxycyte™ in Patients With Severe Non-Penetrating Traumatic Brain Injury (Multi Center Study in Switzerland and Israel. Global Adviser: Ross M. Bullock, MD, PhD)

Co-Investigator in the following studies:

- Protocol title: An open label, proof of concept study, to evaluate the safety and biological effects of "Oxycyte™" perfluorocarbon in patients with a severe head injury requiring intracranial pressure monitoring. (Medical College of Virginia, Richmond, USA, Principal investigator: Ross M. Bullock, MD, PhD)

- Protocol title: A prospective, multi-center, double-blind, randomized, placebo-controlled, parallel-group study to asses the efficacy and safety of clazosentan in reducing vasospasm-

related morbidity and all-cause mortality in adult patients with aneurysmal subarachnoid hemorrhage treated by surgical clipping. (Cantonal Hospital Aarau, Aarau, Switzerland Principal investigator: Javier Fandino, MD)

DOZENTENTÄTIGKEIT/REGELMÄSSIGE FORTBILDUNGEN

2009 – 2014	Fachdozentin für Neurochirurgie an der Aargauischen Fachschule für Anästhesie-, Intensiv- und Notfallpflege der Kantonsspitäler Aarau und Baden
2009 - 2014	Faculty Member an den jährlichen Spine-Courses und spinalen Workshops der Swiss Young Neurosurgeons