

## Curriculum Vitae

**First Name / Surname** Tamara Ius M.D., Ph.D.

**Occupation Field** Medical Doctor, Specialist in Neurosurgery

- Education**
- **Medical Degree (MD) in 2004** (110/110 “cum laude”), University of Trieste, Italy
  - **Fellowship in Neurosurgery in 2010 (70/70)**, University of Padua, Italy
  - **Doctorate (PhD) in Robotics, Cognition and Interaction Technologies** Italian Institute of Technology, University of Genoa, Italy, in 2014.
  - **Second Level Professor National Qualification (MIUR1532/2016, 06/E3, Med 27, in 2018).**
  - **Certification as Gliolan Trainer (Royal College of Surgeons, Ireland, in 2019).**

- Society, Memberships**
- **Member of AINO from 2010 to present.**
  - **Member of SINch from 2012 to present.**
  - **Member of the AINO board from November 2017 to present.**
  - **Coordinator of SINch Neuro-Oncology Section from 2020 to present.**
  - **Member of Research Committee ASUFC, FVG, Italy from January 2019 to present.**

**H-Index** 16 in Scopus.

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=15725154500>

**ORCID:** <https://orcid.org/0000-0003-3741-0639>

|                             |      |
|-----------------------------|------|
| Total Impact factor         | 16   |
| Total Citations             | 1263 |
| Average Citations per Paper | 14.4 |

**Work experience**

- **Resident in Neurosurgery** from 2005 to 2010  
Division of Neurosurgery, Department of Neurosciences  
Udine Hospital, Italy
- **Research Fellow** from April 2010 to December 2010  
Division of Neurosurgery, Department of Neurosciences  
Udine Hospital, Italy
- **PhD Student** in Robotics Brain and Cognitive Function  
From January 2011 to April 2014  
Italian Institute of Technology, University of Genoa, Italy, 2014  
In collaboration with the Division of Neurosurgery  
Department of Neurosciences, Udine, Italy

**Occupation and Positions held**

- **Physician in Neurosurgery (temporary position)**  
from February 2013 to September 2016  
Division of Neurosurgery, Department of Neurosciences  
University Hospital of Udine, Italy
- **Physician in Neurosurgery (permanent position)**  
from September 2016 to present  
Division of Neurosurgery, Department of Neurosciences  
University Hospital of Udine, Italy

**Surgical Activity**

A total of 1458 of surgical procedures from January 2010 to present classified as follows:

- First surgeon 715 procedures
- Second surgeon 724 procedures
- 569 surgical procedures in the field of Neuro-Oncology (meningioma, glioma, metastasis) as follows:

|                                   | <b>First Surgeon</b> | <b>Second Surgeon</b> | <b>Total</b> |
|-----------------------------------|----------------------|-----------------------|--------------|
| Type of Surgery in Neuro-Oncology | 252                  | 317                   | 569          |
| awake surgery                     | 26                   | 91                    | 117          |
| intraoperative monitoring         | 164                  | 285                   | 349          |
| Insular glioma surgery            | 17                   | 49                    | 66           |

## Trainings

- 1. Training in Proteomics and Brain tumors October 2006-April 2009.** International Center for Genetic Engineering and Biotechnology of Trieste. Alessandro Vindigni PhD (Genome Stability, Group Leader).
- 2. Training in Neurooncology and Awake Mapping April 2009-October 2009:** Low-Grade Glioma program Fellow, Montpellier University, Department of Neurosurgery, France, Hugu Duffau MD. PhD, Faculty Director and Chairman of Department.
- 3. Gliolan Train the Trainer course, Dublin, September 2019.** Professor W. Stummer, Royal College of Surgeons, Dublin, Ireland.

## Courses

- 1. Theoretical-practical Course on Cadaveric Temporal Bone Dissection,** Padua, October, 2007.
- 2. Live Surgery Course: Intracranial Meningiomas,** Vicenza March 13-14, 2008, Fronto-lateral, Retrosigmoid, Midline Suboccipital Approaches, Complication Management.
- 3. New Concepts in Neurosurgical Training: Tips and Tricks,** Taormina, Messina, May 22-24, 2008.
- 4. Skull Base Surgical Approaches Cadaver Dissection Course,** Padova, October 13, 2008.
- 5. Cranial Neurosurgery Instructional Course,** March 30-31, 2013, Depuy Institute, Hamburg Craniotomy and Microsurgical Dissection on in-vivo specimen with dural opening, sulcal dissection and removal of an artificial brain tumor, bleeding management.
- 6. Theoretical-practical course on scientific writing.** L'Accademia del Saper Fare - Genova, September, 2012.
- 7. Second Annual World Course in Advanced techniques in Neurosurgical Oncology,** London, July 11-14, 2013.
- 8. Fluorescence-guided resection using Gliolan,** Padua, May, 2015.
- 9. 11th Hands-On Cadaver Course: The impact of White Matter Anatomy for Brain tumor and Epilepsy surgery.** University of Zurich, January 17 – 19, 2018.

## Clinical interests and experience

- Glioma Management
- Brain Tumor Microsurgery
- Skull-base Tumor Surgery
- Vascular Surgery
- Intraoperative Functional Imaging in Brain Tumor Surgery
- Virtual Planning in Skull Base Surgery
- Molecular Research in Neurosurgery
- Robotics in Neurosurgery
- Artificial Intelligence Model in Glioma and Meningioma

**Major Research Interests**

Research areas include:

- Brain Mapping and Awake Surgery
- Skull Base Surgery
- DTI fiber-tracking in Low-Grade Glioma Surgery
- Volumetric Evaluation of Tumoral resection by using Osirix software
- Brain Tumor associated Stem Cells
- Molecular Markers and Deep Learning Models in Glioma
- Glioma Cell Lines
- New Nanotechnology Frontiers in Brain Mapping
- Virtual planning and 3D printing in Skull Base Lesions

**Organisational skills and competences**

- Scientific member of 57° Congresso Nazionale SINch 2008, Udine, November 2008.
- Scientific member of Cerebral Functions and Surgery: Today and Tomorrow, Udine, Italy, April 14-15, 2011.
- Scientific member of “Approccio Multidisciplinare in Neuroncologia: dall’epilessia alle nuove frontiere di cura” Udine, Italy, May 4, 2018.
- Scientific Member of “XXII congresso Nazionale e Corso Residenziale AINO” Mantova, November 25-27, 2018.
- Scientific Member of “Young Topics in Neurosurgery”, Policlinico Gemelli, May 4, 2019.
- Scientific Member of “XXIII congresso Nazionale e Corso Residenziale AINO” Udine, Novembre 10-12, 2019.

**Awards and Honors**

- Beniamino Guidetti European Award in Neurosurgery, October 2013.

**Patent**

- Collaboration with the Italian Institute of Technology IIT for the FMERS/FMOR project based on the development of brain machine interface in humans (from 2016 to present) “device Class III”, authorized by the Italian Health Ministry (Professor Lucinao Fadiga).

Total Publications cited on PubMed (book chapters and Italian manuscript excluded)

1. The benefit of early surgery on overall survival in incidental low grade glioma patients: a multicenter study. Ius T, Ng S, Young JS, Tomasino B, Polano M, Ben-Israel D, Kelly JJP, Skrap M, Duffau H, Berger MS. *Neuro Oncol*. 2021 Sep 8;noab210. doi: 10.1093/neuonc/noab210.
2. Machine Learning-Based Prediction of Early Recurrence in Glioblastoma Patients: A Glance Towards Precision Medicine. Della Pepa GM, Caccavella VM, Menna G, Ius T, Auricchio AM, Sabatino G, La Rocca G, Chiesa S, Gaudino S, Marchese E, Olivi A. *Neurosurgery*. 2021 Aug 30;nyab320. doi: 10.1093/neuros/nyab320. PMID: 34459917.
3. A multimodal approach to the study of children treated for posterior fossa tumor: A review of the literature and a pilot study. Zilli T, Dolcemascolo V, Passone E, Maieron M, De Colle MC, Skrap M, Ius T, Liguoro I, Venchiarutti M, Cogo P, Tomasino B. *Clin Neurol Neurosurg*. 2021 Aug;207:106819. doi: 10.1016/j.clineuro.2021.106819. Epub 2021 Jul 12. PMID: 34274656
4. Intracranial dural based marginal zone MALT-type B-cell lymphoma: a case - Based update and literature review. La Rocca G, Auricchio AM, Mazzucchi E, Ius T, Della Pepa GM, Altieri R, Pignotti F, Gessi M, De Santis V, Zoia C, Sabatino G. *Br J Neurosurg*. 2021 Jun 26;1-7. doi: 10.1080/02688697.2021.1941760. PMID: 34180316.
5. Prediction of Speech Onset by Micro-Electrocorticography of the Human Brain. Delfino E, Pastore A, Zucchini E, Cruz MFP, Ius T, Vomero M, D'Ausilio A, Casile A, Skrap M, Stieglitz T, Fadiga L. *Int J Neural Syst*. 2021 Jul;31(7):2150025. doi: 10.1142/S0129065721500258. Epub 2021 Jun 14. PMID: 34130614.
6. Advances in Multidisciplinary Management of Skull Base Meningiomas. Ius T, Tel A, Minniti G, Somma T, Solari D, Longhi M, De Bonis P, Scerrati A, Caccese M, Barresi V, Fiorentino A, Gorgoglione L, Lombardi G, Robiony M. *Cancers (Basel)*. 2021 May 28;13(11):2664. doi: 10.3390/cancers13112664. PMID: 34071391
7. Risk Factors for Intraoperative Seizures in Glioma Surgery: Electro-corticography Matters. Lettieri C, Ius T, Verriello L, Budai R, Isola M, Valente M, Skrap M, Gigli GL, Pauletto G. *J Clin Neurophysiol*. 2021 Apr 30. doi: 10.1097/WNP.0000000000000854. PMID: 34038932
8. Multimodal integrated approaches in low grade glioma surgery. Ius T, Mazzucchi E, Tomasino B, Pauletto G, Sabatino G, Della Pepa GM, La Rocca G, Battistella C, Olivi A, Skrap M. *Sci Rep*. 2021 May 11;11(1):9964. doi: 10.1038/s41598-021-87924-2. PMID: 33976246.

## Scientific Publications

9. A New Epigenetic Model to Stratify Glioma Patients According to Their Immunosuppressive State. Polano M, Fabbiani E, Adreuzzi E, Cintio FD, Bedon L, Gentilini D, Mongiat M, Ius T, Arcicasa M, Skrap M, Dal Bo M, Toffoli G. *Cells*. 2021 Mar 5;10(3):576. doi: 10.3390/cells10030576. PMID: 33807997.
10. Pre-Surgery Cognitive Performance and Voxel-Based Lesion-Symptom Mapping in Patients with Left High-Grade Glioma. Guarracino I, Ius T, Baiano C, D'Agostini S, Skrap M, Tomasino B. *Cancers (Basel)*. 2021 Mar 23;13(6):1467. doi: 10.3390/cancers13061467. PMID: 33806837.
11. The gender impact in the era of COVID-19: an Italian neurosurgical perspective. Somma T, Bove I, Migliorati K, Scala MR, Ius T, Garufi G, Santi L, Cappabianca P. *J Neurosurg Sci*. 2021 Mar 11. doi: 10.23736/S0390-5616.21.05330-3. PMID: 33709670.
12. Risk Assessment by Pre-surgical Tractography in Left Hemisphere Low-Grade Gliomas. Ius T, Somma T, Baiano C, Guarracino I, Pauletto G, Nilo A, Maieron M, Palese F, Skrap M, Tomasino B. *Front Neurol*. 2021 Feb 15;12:648432. doi: 10.3389/fneur.2021.648432. eCollection 2021. PMID: 33679596.
13. What's behind drawing for an artist with left temporal lobe epilepsy? A multimodal neurophysiological study. Pauletto G, Guarracino I, Nilo A, Ius T, Maieron M, Verriello L, Skrap M, Gigli GL, Tomasino B. *Epilepsy Behav Rep*. 2020 Dec 31;16:100418. doi: 10.1016/j.ebr.2020.100418. eCollection 2021. PMID: 33437962 .
14. Machine Learning-Based Prediction of 6-Month Postoperative Karnofsky Performance Status in Patients with Glioblastoma: Capturing the Real-Life Interaction of Multiple Clinical and Oncologic Factors. Della Pepa GM, Caccavella VM, Menna G, Ius T, Auricchio AM, Chiesa S, Gaudino S, Marchese E, Olivi A. *World Neurosurg*. 2021 May;149:e866-e876. doi: 10.1016/j.wneu.2021.01.082. Epub 2021 Jan 28. PMID: 33516864.
15. Relation Between Reading Performance and White-Matter Alteration and Reorganization in Neurosurgical Patients. Cargnelutti E, Maieron M, Ius T, Skrap M, Tomasino B. *Front Neurol*. 2020 Dec 14;11:563259. doi: 10.3389/fneur.2020.563259. eCollection 2020. PMID: 33424737.
16. Glioblastoma CUSA Fluid Protein Profiling: A Comparative Investigation of the Core and Peripheral Tumor Zones. La Rocca G, Simboli GA, Vincenzoni F, Rossetti DV, Urbani A, Ius T, Della Pepa GM, Olivi A, Sabatino G, Desiderio C. *Cancers (Basel)*. 2020 Dec 23;13(1):30. doi: 10.3390/cancers13010030. PMID: 33374813.

## Scientific Publications

17. The miRNA Content of Exosomes Released from the Glioma Microenvironment Can Affect Malignant Progression. Caponnetto F, Dalla E, Mangoni D, Piazza S, Radovic S, Ius T, Skrap M, Di Loreto C, Beltrami AP, Manini I, Cesselli D. *Biomedicines*. 2020 Dec 3;8(12):564. doi: 10.3390/biomedicines8120564. PMID: 33287106.
18. Normal-appearing white matter structural integrity in incidentally discovered low-grade gliomas: a single institution study. Cargnelutti E, Maieron M, Ius T, Skrap M, Tomasino B. *J Neurosurg Sci*. 2020 Nov 27. doi: 10.23736/S0390-5616.20.05146-2. PMID: 33245224.
19. Clinical Management of Diffuse Low-Grade Gliomas. Lombardi G, Barresi V, Castellano A, Tabouret E, Pasqualetti F, Salvalaggio A, Cerretti G, Caccese M, Padovan M, Zagonel V, Ius T. *Cancers (Basel)*. 2020 Oct 16;12(10):3008. doi: 10.3390/cancers12103008. PMID: 33081358.
20. Heterogeneity Matters: Different Regions of Glioblastoma Are Characterized by Distinctive Tumor-Supporting Pathways. Manini I, Caponnetto F, Dalla E, Ius T, Della Pepa GM, Pegolo E, Bartolini A, La Rocca G, Menna G, Di Loreto C, Olivi A, Skrap M, Sabatino G, Cesselli D. *Cancers (Basel)*. 2020 Oct 13;12(10):2960. doi: 10.3390/cancers12102960. PMID: 33066172
21. Is age an additional factor in the treatment of elderly patients with glioblastoma? A new stratification model: an Italian Multicenter Study. Ius T, Somma T, Altieri R, Angileri FF, Barbagallo GM, Cappabianca P, Certo F, Cofano F, D'Elia A, Della Pepa GM, Esposito V, Fontanella MM, Germanò A, Garbossa D, Isola M, La Rocca G, Maiuri F, Olivi A, Panciani PP, Pignotti F, Skrap M, Spina G, Sabatino G. *Neurosurg Focus*. 2020 Oct;49(4):E13. doi: 10.3171/2020.7.FOCUS20420. PMID: 33002864.
22. What do we know about pre- and postoperative plasticity in patients with glioma? A review of neuroimaging and intraoperative mapping studies. Cargnelutti E, Ius T, Skrap M, Tomasino B. *Neuroimage Clin*. 2020;28:102435. doi: 10.1016/j.nicl.2020.102435. Epub 2020 Sep 14. PMID: 32980599.
23. Intracranial Meningiomas in the Elderly: Clinical, Surgical and Economic Evaluation. A Multicentric Experience. Cannizzaro D, Tropeano MP, Zaed I, De Robertis M, Olei S, Vindigni M, Pegolo E, Bagatto D, Cardia A, Maira G, Fornari M, Skrap M, Ius T. *Cancers (Basel)*. 2020 Sep 20;12(9):2685. doi: 10.3390/cancers12092685. PMID: 32962243.
24. Mismatch-Repair Protein Expression in High-Grade Gliomas: A Large Retrospective Multicenter Study. Caccese M, Ius T, Simonelli M, Fassan M, Cesselli D, Dipasquale A, Cavallin F, Padovan M, Salvalaggio A, Gardiman MP, Skrap M, Zagonel V, Lombardi G. *Int J Mol Sci*. 2020 Sep 14;21(18):6716. doi: 10.3390/ijms21186716. PMID: 32937743.

## Scientific Publications

25. Trans-sulcal versus trans-parenchymal approach in supratentorial cavernomas. A multicentric experience. La Rocca G, Ius T, Mazzucchi E, Simboli GA, Altieri R, Garbossa D, Acampora A, Auricchio AM, Vincitorio F, Cofano F, Vercelli G, Della Pepa GM, Pignotti F, Albanese A, Marchese E, Sabatino G. *Clin Neurol Neurosurg.* 2020 Oct;197:106180. doi: 10.1016/j.clineuro.2020.106180. Epub 2020 Aug 25. PMID: 32877767.
26. Phonological and surface dyslexia in individuals with brain tumors: Performance pre-, intra-, immediately post-surgery and at follow-up. Tomasino B, Ius T, Skrap M, Luzzatti C. *Hum Brain Mapp.* 2020 Dec;41(17):5015-5031. doi: 10.1002/hbm.25176. Epub 2020 Aug 28. PMID: 32857483.
27. Parietal interhemispheric transfalci transventricular approach for posterior incisural space lesions: from the lab to the operative room. La Rocca G, Sabatino G, Altieri R, Mazzucchi E, Rapisarda A, Ius T, Garbossa D, Cofano F, Olivi A, Della Pepa GM. *Neurosurg Rev.* 2021 Jun;44(3):1779-1788. doi: 10.1007/s10143-020-01375-3. Epub 2020 Aug 25. PMID: 32840722.
28. Diffuse low grade glioma and pregnancy: Practical considerations and clinical tips. Somma T, Baiano C, Santi L, Sabatino G, Della Pepa GM, La Rocca G, Cappabianca P, Olivi A, Skrap M, Ius T. *Clin Neurol Neurosurg.* 2020 Nov;198:106110. doi: 10.1016/j.clineuro.2020.106110. Epub 2020 Aug 2. PMID: 32818754.
29. Contrast enhanced ultrasound (CEUS) applications in neurosurgical and neurological settings - New scenarios for brain and spinal cord ultrasonography. A systematic review. Della Pepa GM, Menna G, Ius T, Di Bonaventura R, Altieri R, Marchese E, Olivi A, Sabatino G, La Rocca G. *Clin Neurol Neurosurg.* 2020 Nov;198:106105. doi: 10.1016/j.clineuro.2020.106105. Epub 2020 Jul 24. PMID: 32739680.
30. A multinodular and vacuolating neuronal tumor of the cerebrum (MVNT) with glioma-like appearance. Bagatto D, Ius T, Pegolo E, Morassi M. *Acta Neurol Belg.* 2020 Jul 6. doi: 10.1007/s13760-020-01426-y. Online ahead of print. PMID: 32632711.
31. Natura non facit saltus: a phase 2 proposal to manage brain tumors cases from the Neuro-oncology section of the Italian Society of Neurosurgery (SINch®). Angileri FF, Sabatino G, Cavallo LM, Pessina F, Ius T, DE Divitiis O, Esposito F, Grimod G, Raffa G, Spina G, Cardali S, Esposito V, Germanò A, Maiuri F, Fontanella M, Cenzato M; Neuro-oncology Section of the Italian Society of Neurosurgery (SINch®). *J Neurosurg Sci.* 2021 Feb;65(1):1-7. doi: 10.23736/S0390-5616.20.05054-7. Epub 2020 Jun 11. PMID: 32525292.



## Scientific Publications

32. Reply to: Letter to the Editor Regarding Anesthesia Management for Low-Grade Glioma Awake Surgery: A European Low-Grade Glioma Network Survey. Madadaki C, Aubrun S, Bello L, Duffau H, Mandonnet E; ELGGN. *Acta Neurochir (Wien)*. 2020 Jul;162(7):1723-1724. doi: 10.1007/s00701-020-04371-0. Epub 2020 May 9. PMID: 32388680.
33. Cognitive Functions in Repeated Glioma Surgery. Capo G, Skrap M, Guarracino I, Isola M, Battistella C, Ius T, Tomasino B. *Cancers (Basel)*. 2020 Apr 26;12(5):1077. doi: 10.3390/cancers12051077. PMID: 32357421.
34. Italian consensus and recommendations on diagnosis and treatment of low-grade gliomas. An intersociety (SINch/AINO/SIN) document. Rudà R, Angileri FF, Ius T, Silvani A, Sarubbo S, Solari A, Castellano A, Falini A, Pollo B, Del Basso De Caro M, Papagno C, Minniti G, De Paula U, Navarra P, Nicolato A, Salmaggi A, Pace A, Fabi A, Caffo M, Lombardi G, Carapella CM, Spena G, Iacoangeli M, Fontanella M, Germanò AF, Olivi A, Bello L, Esposito V, Skrap M, Soffietti R; SINch Neuro-Oncology Section, AINO and SIN Neuro-Oncology Section. *J Neurosurg Sci*. 2020 Aug;64(4):313-334. doi: 10.23736/S0390-5616.20.04982-6. Epub 2020 Apr 29. PMID: 32347684.
35. 5-ALA False-Positive in Anaplastic Oligodendroglioma, IDH-mutant and 1p/19q-codeleted. La Rocca G, Barresi V, Sabatino G, Altieri R, Ius T, Olivi A, Mazzucchi E, Pignotti F, Della Pepa GM. *Surg Technol Int*. 2020 May 28;36:453-456. PMID: 32243563.
36. A Risk Score Based on 5 Clinico-Pathological Variables Predicts Recurrence of Atypical Meningiomas. Fioravanzo A, Caffo M, Di Bonaventura R, Gardiman MP, Ghimenton C, Ius T, Maffei V, Martini M, Nicolato A, Pallini R, Pegolo E, Pinna G, Sala F, Skrap M, Volpin V, Barresi V. *J Neuropathol Exp Neurol*. 2020 May 1;79(5):500-507. doi: 10.1093/jnen/nlaa018. PMID: 32232472.
37. 5-Aminolevulinic Acid and Contrast-Enhanced Ultrasound: The Combination of the Two Techniques to Optimize the Extent of Resection in Glioblastoma Surgery. Della Pepa GM, Ius T, La Rocca G, Gaudino S, Isola M, Pignotti F, Rapisarda A, Mazzucchi E, Giordano C, Dragonetti V, Chiesa S, Balducci M, Gessi M, Skrap M, Olivi A, Marchese E, Sabatino G. *Neurosurgery*. 2020 Jun 1;86(6):E529-E540. doi: 10.1093/neuros/nyaa037. PMID: 32186345.
38. 5-Aminolevulinic Acid False Positives in Cerebral Neuro-Oncology: Not All That Is Fluorescent Is Tumor. A Case-Based Update and Literature Review. La Rocca G, Sabatino G, Menna G, Altieri R, Ius T, Marchese E, Olivi A, Barresi V, Della Pepa GM. *World Neurosurg*. 2020 May;137:187-193. doi: 10.1016/j.wneu.2020.01.238. Epub 2020 Feb 10. PMID: 32058110.
39. Mechanisms of malignancy in glioblastoma cells are linked to mitochondrial Ca<sup>2+</sup> uniporter upregulation and higher intracellular Ca<sup>2+</sup> levels. Li X, Spelat R, Bartolini A, Cesselli D, Ius T, Skrap M, Caponnetto F, Manini I, Yang Y, Torre V. *J Cell Sci*. 2020 Mar 24;133(6):jcs237503. doi: 10.1242/jcs.237503. PMID: 32051286.

## Scientific Publications

40. Predictors of Postoperative Seizure Outcome in Low Grade Glioma: From Volumetric Analysis to Molecular Stratification. Ius T, Pauletto G, Tomasino B, Maieron M, Budai R, Isola M, Cesselli D, Lettieri C, Skrap M. *Cancers (Basel)*. 2020 Feb 8;12(2):397. doi: 10.3390/cancers12020397. PMID: 32046310.
41. A Novel Comprehensive Clinical Stratification Model to Refine Prognosis of Glioblastoma Patients Undergoing Surgical Resection. Ius T, Pignotti F, Della Pepa GM, La Rocca G, Somma T, Isola M, Battistella C, Gaudino S, Polano M, Dal Bo M, Bagatto D, Pegolo E, Chiesa S, Arcicasa M, Olivi A, Skrap M, Sabatino G. *Cancers (Basel)*. 2020 Feb 7;12(2):386. doi: 10.3390/cancers12020386. PMID: 32046132.
42. Glioblastoma: from volumetric analysis to molecular predictors. Ius T, Pignotti F, Della Pepa GM, Bagatto D, Isola M, Battistella C, Gaudino S, Pegolo E, Chiesa S, Arcicasa M, La Rocca G, Olivi A, Skrap M, Sabatino G. *J Neurosurg Sci*. 2020 Feb 4. doi: 10.23736/S0390-5616.20.04850-X. Online ahead of print. PMID: 32031360.
43. Junior-Real Time neuropsychological testing (j-RTNT) for a young patient undergoing awake craniotomy. Guarracino I, Ius T, Pauletto G, Maieron M, Skrap M, Tomasino B. *Brain Cogn*. 2020 Apr;140:105535. doi: 10.1016/j.bandc.2020.105535. Epub 2020 Feb 3. PMID: 32028087.
44. "Dark corridors" in 5-ALA resection of high-grade gliomas: combining fluorescence-guided surgery and contrast-enhanced ultrasonography to better explore the surgical field. Della Pepa GM, Ius T, Menna G, La Rocca G, Battistella C, Rapisarda A, Mazzucchi E, Pignotti F, Alexandre A, Marchese E, Olivi A, Sabatino G. *J Neurosurg Sci*. 2019 Dec;63(6):688-696. doi: 10.23736/S0390-5616.19.04862-8. PMID: 31961118.
45. State of the art of fluorescence guided techniques in neurosurgery. La Rocca G, Della Pepa GM, Menna G, Altieri R, Ius T, Rapisarda A, Olivi A, Sabatino G. *J Neurosurg Sci*. 2019 Dec;63(6):619-624. doi: 10.23736/S0390-5616.19.04854-9. PMID: 31961115.
46. Neurosurgical lesions to sensorimotor cortex do not impair action verb processing. Argiris G, Budai R, Maieron M, Ius T, Skrap M, Tomasino B. *Sci Rep*. 2020 Jan 16;10(1):523. doi: 10.1038/s41598-019-57361-3. PMID: 31949237.
47. Multimodal Assessment Shows a Mostly Preserved Cognitive Status in Incidentally Discovered Low Grade Gliomas: A Single Institution Study. Guarracino I, Ius T, Pegolo E, Cesselli D, Skrap M, Tomasino B. *Cancers (Basel)*. 2020 Jan 8;12(1):156. doi: 10.3390/cancers12010156. PMID: 31936400.
48. Frameless Deep Brain Stimulation Surgery: A Single-Center Experience and Retrospective Analysis of Placement Accuracy of 220 Electrodes in a Series of 110 Patients. Eleopra R, Rinaldo S, Devigili G, Mondani M, D'Auria S, Lettieri C, Ius T, Skrap M. *Stereotact Funct Neurosurg*. 2019;97(5-6):337-346. doi: 10.1159/000503335. Epub 2020 Jan 14. PMID: 31935742.

## Scientific Publications

49. Multimodality Imaging Techniques to Assist Surgery in Low-Grade Gliomas. Mazzucchi E, La Rocca G, Ius T, Sabatino G, Della Pepa GM. *World Neurosurg.* 2020 Jan;133:423-425. doi: 10.1016/j.wneu.2019.10.120.PMID: 31881559.
50. Application of an Artificial Intelligence Algorithm to Prognostically Stratify Grade II Gliomas. Cesselli D, Ius T, Isola M, Del Ben F, Da Col G, Bulfoni M, Turetta M, Pegolo E, Marzinotto S, Scott CA, Mariuzzi L, Di Loreto C, Beltrami AP, Skrap M. *Cancers (Basel).* 2019 Dec 22;12(1):50. doi: 10.3390/cancers12010050.PMID: 31877896.
51. Meningioma can lead to pre-operative cognitive alterations even if localized in sensorimotor areas: A multimodal MRI-neuropsychological study in a series of 46 patients. Guarracino I, Ius T, Skrap M, Tomasino B. *Neuropsychologia.* 2020 Feb 3;137:107288. doi: 10.1016/j.neuropsychologia.2019.107288. Epub 2019 Nov 30.PMID: 31790726.
52. From the Champion to the Team: New Treatment Paradigms in Contemporary Neurosurgery. Somma T, Ius T, Certo F, Santi L, de Angelis M, Dones F, Cenzato M, Skrap M, Cappabianca P. *World Neurosurg.* 2019 Nov;131:141-148. doi: 10.1016/j.wneu.2019.07.196. Epub 2019 Aug 2.PMID: 31382066.
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58. Role of Microenvironment in Glioma Invasion: What We Learned from In Vitro Models. Manini I, Caponnetto F, Bartolini A, Ius T, Mariuzzi L, Di Loreto C, Beltrami AP, Cesselli D. *Int J Mol Sci.* 2018 Jan 4;19(1):147. doi: 10.3390/ijms19010147. PMID: 29300332.
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74. Glioma-associated stem cells: a novel class of tumor-supporting cells able to predict prognosis of human low-grade gliomas. Bourkoula E, Mangoni D, Ius T, Pucer A, Isola M, Musiello D, Marzinotto S, Toffoletto B, Sorrentino M, Palma A, Caponnetto F, Gregoraci G, Vindigni M, Pizzolitto S, Falconieri G, De Maglio G, Pecile V, Ruaro ME, Gri G, Parisse P, Casalis L, Scoles G, Skrap M, Beltrami CA, Beltrami AP, Cesselli D. *Stem Cells.* 2014 May;32(5):1239-53. doi: 10.1002/stem.1605. PMID: 24375787.
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## Scientific Publications

76. Low-grade glioma surgery in eloquent areas: volumetric analysis of extent of resection and its impact on overall survival. A single-institution experience in 190 patients: clinical article. Ius T, Isola M, Budai R, Pauletto G, Tomasino B, Fadiga L, Skrap M.J *Neurosurg.* 2012 Dec;117(6):1039-52. doi: 10.3171/2012.8.JNS12393. Epub 2012 Oct 5.PMID: 23039150.
77. Foreign accent syndrome: a multimodal mapping study. Tomasino B, Marin D, Maieron M, Ius T, Budai R, Fabbro F, Skrap M.*Cortex.* 2013 Jan;49(1):18-39. doi: 10.1016/j.cortex.2011.10.007. Epub 2011 Oct 29.PMID: 22130092.
78. Surgery of insular nonenhancing gliomas: volumetric analysis of tumoral resection, clinical outcome, and survival in a consecutive series of 66 cases. Skrap M, Mondani M, Tomasino B, Weis L, Budai R, Pauletto G, Eleopra R, Fadiga L, Ius T.*Neurosurgery.* 2012 May;70(5):1081-93; discussion 1093-4. doi: 10.1227/NEU.0b013e31823f5be5.PMID: 22067417.
79. The human RECQ1 helicase is highly expressed in glioblastoma and plays an important role in tumor cell proliferation. Mendoza-Maldonado R, Faoro V, Bajpai S, Berti M, Odreman F, Vindigni M, Ius T, Ghasemian A, Bonin S, Skrap M, Stanta G, Vindigni A.*Mol Cancer.* 2011 Jul 13;10:83. doi: 10.1186/1476-4598-10-83.PMID: 21752281.
80. Evidence for potentials and limitations of brain plasticity using an atlas of functional resectability of WHO grade II gliomas: towards a "minimal common brain". Ius T, Angelini E, Thiebaut de Schotten M, Mandonnet E, Duffau H.*Neuroimage.* 2011 Jun 1;56(3):992-1000. doi: 10.1016/j.neuroimage.2011.03.022. Epub 2011 Mar 21.PMID: 21414413.
81. Endoscopic third ventriculostomy in patients with secondary triventricular hydrocephalus from a haemorrhage or ischaemia in the posterior cranial fossa. Vindigni M, Tuniz F, Ius T, Cramaro A, Skrap M.*Minim Invasive Neurosurg.* 2010 Jun;53(3):106-11. doi: 10.1055/s-0030-1251983. Epub 2010 Aug 31.PMID: 20809450.

## Books

1. **Diffuse Low-Grade Gliomas in Adults (H. DUFFAU).** Chapter title: Human Low Grade Glioma Cultures. Authors: Daniela Cesselli, Antonio Paolo Beltrami, Anja Pucer, Evgenia Bourkoula, Tamara Ius, Marco Vindigni, Miran Skrap, Carlo Alberto Beltrami. Editor: Springer London Ltd (March 19, 2013) ISBN-10: 1447122127 ISBN-13: 978-1447122128.
2. **Diffuse Low-Grade Gliomas in Adults, Second Edition (H. DUFFAU)** Chapter title: Diffuse Low-Grade Glioma Associated Stem Cells. Federica Caponnetto, Antonio Paolo Beltrami, Tamara Ius, Miran Skrap, and Daniela Cesselli. Editor: Springer London Ltd (March 19, 2013) ISBN-10: 1447122127 ISBN-13: 978-1447122128.
3. **Island of Reil (Insula) in the Human Brain Anatomical, Functional, Clinical and Surgical Aspects. Editors: Turgut, Mehmet, Yurttas, Canan, Tubbs, R.** Chapter title: Neuropsychology in Insular Lesions Prior-During and After Brain Surgery. Authors: Barbara Tomasino, Dario Marin, Tamara Ius, Miran Skrap. Editor: Shane (Eds.) (February 4, 2019) ISBN 978-3-319-75468-0.
4. **GLIOMAS: Waldemar Debinski.** Chapter title: Brain Mapping: Real-Time Neuropsychological Testing Experience during Low-Grade Tumor Resection. Authors: Barbara Tomasino, Tamara Ius, Miran Skrap. Editor: Exon Publications, Brisbane, Australia (April 30, 2021). ISBN: 978-0-6450017-4-7.
5. **Intraoperative Awake Brain Mapping - Which Tasks for Which Location (E. Mandonnet, G. Herbet).** Chapter title: Mapping with multiple tasks. Authors: Henry Colle, Barbara Tomasino, Erik Robert, Miran Skrap, Tamara Ius. Editor: Springer (July 8, 2021). ISBN 978-3-030-75071-8
6. **Testo di chirurgia specialistica, coordinato M.M. Fontanella,** Chapter title: Tumori cerebrali intra-assiali. Authors: Tamara Ius, Silvio Sarubbo. Edizione Minerva Medica. *In press 2021.*
7. Monografia scientifico-divulgativa sugli **aspetti neuro-psicologici nel paziente neuro-oncologico (M.M. Fontanella; P.P. Panciani)**, con il supporto della sezione di neuroncologia Sinch e di AINO. Edizione Minerva Medica. In press. 2021. Chapter title: Il ruolo della chirurgia. Author: T. Ius (*in press*).

## Ad Hoc Reviewer for

- Frontiers Oncology;
- Biomed Research International.

## Congresses

Participation as speaker at 40 (13 at National and 6 International Congresses) in the field of Neurooncology. Invited Speaker at 21 Congresses. The list is reported below:

1. **SINch (Società Italiana di Neurochirurgia) Torino 2005**, December 14-17: Chirurgia dei gliomi low-grade dell'area pre-motoria. Utilità del monitoraggio neurofisiologico intraoperatorio e delle tecniche a paziente sveglio e collaborante. **Ius T**, Mondani M, Vindigni M, Budai R, Skrap M.
2. **SINch (società Italiana di Neurochirurgia) Sorrento 2006**, November 19-22: Meningiomi parasellari e coinvolgimento del nervo ottico: utilità del monitoraggio neurofisiologico intra operatorio. **Ius T**, Tuniz F, Mondani M, Vindigni M, Budai R, Skrap M.
3. **2<sup>nd</sup>Internat. meeting-updates in Neuro-Oncology, Cortona 2007**, June 28-30: Profile of protein expression patterns in human gliomas: a preliminary study of 20 patients **Ius T**, Vindigni A, Skrap M.
4. **Thirteenth European congress of neurosurgery, EANS, Glasgow, 2007**, September 2-7 : Low-grade tumors of pre-motor area: surgical and functional results. **Ius T**, Mussoni A, Skrap M.
5. **SINch (Società Italiana di Neurochirurgia), Udine 2008**, November 6-8: Confronto fMRI pre e post operatoria in pazienti con low-grade in aree eloquenti. **Ius T**, Tomasino B, Weiss L, Skrap M.
6. **Associazione Italiana di Neuro-Oncologia (AINO) Padova 2009**, October 4-7: Analisi comparativa proteomica e molecolare ottenuta dall'espansione cellulare di gliomi umani: risultati preliminari. **Ius T**, Odreman F, Triolo G, et al.; and, Gliomi alto e basso grado: pattern molecolari a confronto e correlazioni con l'outcome clinico. **Ius T**, Odreman F, Vindigni M, et al.
7. **Fifteenth European congress of neurosurgery, EANS Rome, 2011**, October 10-14: Clinical value of diffusion tensor imaging in low-grade glioma surgery: our 3T MRI experience. **Ius T**, Fadiga L, Skrap M.; and Surgery of insular Low Grade Gliomas: volumetric analysis of tumoral resection, clinical outcome and survival in a consecutive series of 66 cases. **Ius T**, Fadiga L, Skrap M.
8. **Sinch (Società Italiana di Neurochirurgia) Firenze 2011**, Giugno 5-7: Pre- and post-operative comparison of diffusion tensor imaging in low-grade glioma surgery: our 3T MRI experience. **Ius T**, Fadiga L, Skrap M.
9. **AINO (Associazione Italiana di Neuro-Oncologia), Milano 2011**, November 2-5: Chirurgia dei Low-Grade Glioma: analisi volumetrica della resezione tumorale e overall survival. **Ius T**, Mondani M, Fadiga L, Skrap M.



10. **WFNS (World Congress of Neurosurgery), Seoul, 2013**, September 8-13: Preoperative Dti Fiber Tracking Analysis in Lggs Involving the Cortical-spina Pathways: A New Predictive Index for the Risk of Transient Postoperative Worsening. **Ius T**, Turella L, Fadiga L, Skrap M.; and, Insular Low Grade Gliomas: Second Surgery at Tumor Recurrence. **Ius T**, De Maglio G, Cesselli D, Isola M, Beltrami AP, Beltrami CA, Gregoraci G, Vindigni M, Pizzolitto S, Skrap M.; and, Insular Low-Grade Glioma: Predictors of postoperative Seizure Outcome. **Ius T**, Pauletto G, Isola M et al.
11. **SINch (Società Italiana di Neurochirurgia) Vicenza 2014**, September 25-27: Seizure relapse after surgery for insular glioma: a potential prognostic clinical sign for tumor recurrence. **Ius T**, Pauletto G, Sciacca G et al.; and, Intra-Operative Seizure in Insular Awake Surgery: Role of ECoG Monitoring. **Ius T**, Pauletto G, Sciacca G et al.
12. **XX Congresso Nazionale e Corso Residenziale AINO Napoli 2016**, November 6-8: Glioma Associated Stem Cells: a patient-based in vitro approach to identify novel LGG prognostic factors and suggest novel therapies. **Ius T**; Cesselli D; Pegolo E et al.; and, Molecular Biomarkers in low-grade glioma: retrospective study evaluation. **Ius T**; Cesselli D; Pegolo E et al.
13. **European congress of Neurosurgery, EANS, Venice, 2017**, October 1-5: Glioma Associated Stem Cells: a patient-based in vitro approach to identify novel LGG prognostic factors and suggest novel therapies. **Ius T**, Cesselli D; Isola M, et al.; and, Carmustine Wafers in Newly Diagnosed High Grade Gliomas: Institutional Experience and Systematic Literature Review. **Ius T**; Toniato G, Cesselli D et al.
14. **XXI Congresso Nazionale e Corso Residenziale AINO Trento, 2017**, November 26-29: Incidentally discovered low-grade gliomas: clinical, molecular and surgical aspects. **Ius T**; Cesselli D; Isola M, et al.
15. **SINch (Società Italiana di Neurochirurgia) Ancona 2018**, September 19-21: Second Surgery in Low Grade Glioma: Surgical and molecular considerations **Ius T**, Mondani M, Cesselli D, Pauletto G, Facchin G, Tomasino B, Skrap M.
16. **XXII Congresso Nazionale e Corso Residenziale AINO Mantova, 2018**, November 25-27: Outcome Epilettologico nei pazienti operati per glioma basso grado. **Ius T**, Pauletto G, Cesselli D, Isola M, Pegolo E, Di Loreto C, Skrap M.
17. **WFNS Congress, Beijing, 2019**, September 9-12: Artificial Intelligence Algorithm to prognostically stratify low grade glioma survival. **Ius T**, Cesselli D, Isola M, Skrap M. Combining volumetric, surgical and molecular data to predict the survival in newly diagnosed high-grade gliomas. **Ius T**, Sabatino G, Isola M, Marchese E, Olivi A, Skrap M.

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| <p><b>Congresses</b></p>      | <p>18. <b>SINch (Società Italiana di Neurochirurgia) Roma, 2019</b>, Settember 16-18: Low Grade Glioma: from technology to molecular neurosurgery. <b>Ius T</b>, Tomasino B, Puletto G, Mazzucchi E, Della Pepa GM, Sabatino G, Olivi A, Skrap M.; and, The effect of pregnancy in women with low-grade gliomas. <b>Ius T</b>, Somma T, Skrap M.</p> <p>19. <b>XXIII Congresso Nazionale e Corso Residenziale AINO Udine, 2019</b>, November 10-12: Teamwork nella chirurgia dei gliomi low grade. <b>Ius T</b>, Tomasino B, Puletto G, Mazzucchi E, Della Pepa GM, Sabatino G, Olivi A, Skrap M.</p>   |
| <p><b>Invited Speaker</b></p> | <ol style="list-style-type: none"> <li>1. 8<sup>th</sup> International Postgraduate Practical School of Epileptology, in the tradition of Jean Bancaud's Epilepsy School Symposium and Workshop. Neurosurgical Aspects of Epilepsy in Southeastern Europe August, 27 – 28, 2013, Ljubljana, Slovenia. (Paediatric Clinic UMC Ljubljana - Cankarjev dom, Ljubljana).</li> <li>2. NEUROSYMPOSIUM II Capri 14-16 April, 2014. Awake surgery in insular LGG.</li> <li>3. Surgical Brain Mapping: from signal to imaging. Verona 7-8 November, 2014 .</li> <li>4. Risonanza Magnetica in Medicina. DTI tractography Challenge. Verona 16-17 April, 2015.</li> <li>5. AINO Spring Meeting Roma May 20, 2017: Utilizzo di linee cellulari per l'identificazione di nuovi marcatori nei LGG.</li> <li>6. Gliomi Cerebrali: strategie terapeutiche-Venice, May 25-26, 2017: Tavola rotonda: aspetti diagnostici e di terapia intraoperatoria.</li> <li>7. NeuroOncologia Chirurgica 2.0, Messina March 15-16, 2018. Linee Guida Gliomi Basso Grado.</li> <li>8. Approcci multidisciplinari In Neuro-oncologia: dall'epilessia alle nuove frontiere di cura. I gliomi di basso grado e l'epilessia: la chirurgia come approccio per due patologie distinte? Udine, May 4, 2018.</li> <li>9. Young topics in Neuroradiology, Rome 28, May 2018. Imaging funzionale in sala operatoria.</li> <li>10. XXII Congresso Nazionale e corso Residenziale AINO, Mantova, 2018, 25-27 November: Awake surgery: indicazioni and open issues.</li> <li>11. SANO_AINO Joint Meeting, January 10 2019: Aggressiveness in surgery-LGG. Salzburg.</li> <li>12. Percorso diagnostico terapeutico assistenziale del paziente con glioma dall'AUSL-IRCCS di Reggio Emilia 29 Marzo 2019: Il futuro delle terapia chirurgiche dei gliomi cerebrali.</li> <li>13. AINO Spring Meeting Roma 25 Maggio 2019: Gliomas Retrospective studies.</li> </ol> |

**Invited Speaker**

14. WFNS Congress, Beijing 9-12 September 2019: The gender difference in neurosurgical pathologies.
15. Gliomi Maligni e Nuove Prospettive Terapeutiche, Brescia, 3-5 October 2019, High Grade Glioma Surgery in eloquent areas.
16. Il carcinoma mammario in ricaduta al SNC. Udine 5 November. 2019. Il percorso diagnostico terapeutico delle pazienti con carcinoma mammario metastatico al SNC.
17. XXIII Congresso Nazionale e corso Residenziale AINO, Udine, 2019, 10-12 Novembre: Highlights in High Grade Glioma.
18. HOT TOPICS IN EPILEPSY. DISSERTAZIONI E CASI CLINICI ITINERANTI IN FVG" Udine, 25 Giugno 2020: Una chirurgia per due obiettivi?
19. HGG surgery beyond the resection. 47o CONGRESO AANC- Argentina October 2020.
20. Webinar Sinch 2021: "L'insula svelata: dal reale al virtuale" . 18 February, 2021.
21. Webinar Sinch 2021: Neurosurgical Classroom: Awake Surgery. T.Ius, M. Skrap. 22 June, 2021

**Research Projects  
and Grants**

**PRINCIPAL INVESTIGATOR (P.I.):**

1. Interreg V-A Italy-Slovenia, program 2014-2020, project: "**TRANS-GLIOMA - Nuove terapie per il glioblastoma tramite una piattaforma di ricerca transfrontaliera traslazionale**"; Regione Friuli Venezia Giulia, within the framework of "legge regionale 17/2004: Contributi per la ricerca clinica, traslazionale, di base, epidemiologica e organizzativa", all'interno dei progetti "BioMec – Applicazione delle tecnologie biomeccaniche a integrazione delle metodiche tradizionali nel contesto ospedaliero" and "Glioblastoma - Infiltrazione nei gliomi: nuovo target terapeutico". **Scientific collaborator, Principal Investigator for ASUIUD from February 14, 2020 Dott. T. Ius, study closed, budget: 1.302.252,49 €).**
2. **Progetto Ministero della Salute, Giovani Ricercatori 2016 GR-2016-02364678.** Application of GLIADEL wafers (BCNU, carmustine) followed by temozolomide and radioterapy in patients with high-grade glioma: a precision medicine based on molecular landscape. **(Principal Investigator Dott. T.Ius, study ongoing, budget: 450.000 €).**
3. **Progetto di Ricerca dal titolo "Infiltrazione nei gliomi: nuovo target terapeutico", acronimo "GLIOBLASTOMA".** finanziato nell'ambito dei contributi per la ricerca clinica, traslazionale, di base, epidemiologica e organizzativa, di cui all'articolo 15, comma 2, lettera b), della legge regionale FVG 17/2014, (2018-2020) . **(Scientific collaborator, Principal Investigator from February 14 2020 Dott. T.Ius for ASUIUD, study closed, 225.260,80.€).**
4. Coordinator of Italian multicenter non-profit prospective study on glioma. GAPS: Glioblastoma algorithm prognostic score **(non-profit multicentre prospective study, From April 2021 to April 2024).**

**INVESTIGATOR (I.):**

1. Cross-border Cooperation Program Italy-Slovenia 2007-2013. **Project title: GLIOMA - IDENTIFICATION OF NEW GLIOMA BIOMARKERS AS POTENTIAL DIAGNOSTIC AND THERAPEUTIC TARGETS (Scientific collaborator, study closed. Prof. C. DiLoreto).**
2. FIERCE 2012-2016: Nuovi bersagli molecolari e cellular per lo sviluppo di terapie antitumorali. **(Scientific collaborator, study closed, P.I. Prof. L. Mariuzzi).**
3. FIRB 2012-2016, Nanotechnological approaches for tumor teragnostic **(Scientific collaborator, study closed, P.I. Dott. A.P. Beltrami).**
4. Project V-A Italy-Austria bando 2016-Exotera Itata1038, exosomes for regenerative, immunosopressive, neuroprotective and oncosuppressive therapies. **(Scientific collaborator, study closed, P.I. P.Parisse).**

## **Collaborations and Ongoing Studies**

1. Collaboration with Elettra Sincrotrone (Trieste) do develop to a Translational Cross-border Research Platform in glioma research (Professor P. Storici, from 2014 to present).
2. Collaboration with Department of Histopathology at University Hospital of Udine with regards to glioma stem cells research, liquid biopsy and exosomal miRNAs in glioma (Prof. C. Di Loreto, Prof. D. Cesselli from 2015 to present)
3. Collaboration with the Italian Institute of Technology IIT for the FMERS project based on the development of brain machine interface in humans device Class III”, authorized by the Italian Health Ministry (Professor L. Fadiga, from 2015 to present).
4. International Low-Grade Glioma Studies promoted by AINO (Professor R. Rudà, from 2017 to present).
5. Collaboration with AVIANO CRO (Centro Regionale Oncologico, FVG) to develop a predictive glioma model based on artificial intelligence and Next-Generation sequences (Prof. G. Toffoli, from 2018 to present).
6. Collaboration with International School for Advanced Studies (SISSA, Trieste) to investigate the role of Microenvironment in Glioma Invasion (Professor V. Torre, from 2018 to present).
7. Non-profit study NE.MO (neuropsychological monitoring in patients with brain tumors: anatomo-functional investigations. (P.I. Tamara Ius, from 2020 to present).
8. AIRC Project 2017: Optimizing the surgery outcome by exploring the reshaping potential of the language brain network after glioma resection) (P.I. Tamara Ius, from 2020 to present).
9. Multicenter National Prospective Study to validate a glioblastoma prognostic score (GAPS PROJECT, Multicenter Study) (PI: Tamara Ius, from 2021 to present).
10. Collaboration with the Department of Maxillofacial Surgery, University of Udine to develop Virtual Planning and 3D printing in skull base meningioma (Professor M. Robiony from 2020 to present).

## **Teaching activities**

1. Tutor for medical students during thesis training in histopathology, neurology and neurosurgery from March 2017 to present (University of Udine).
2. Teaching and training to PhD Students in Neurophysiology and Neurotechnology from the XXXII cycle (Italian Institute of Technology IIT, Genoa, 2018)
3. Thesis co-supervisor and tutor in Neurosurgery during dissertation, from March 2018 to 2019 (Catholic University, Policlinico Gemelli, Rome).

4. Thesis co-supervisor and tutor in Neurosurgery during dissertation, from September 2019 to February 2020 (La Sapienza University, Rome).
5. Thesis co-supervisor and tutor in Neurosurgery during dissertation, from October 2019 to present (Federico II University, Naples).
6. Secondo corso di perfezionamento in chirurgia dei glioma cerebrali. 2-6 Dicembre 2019. Direttori del Corso: Olivi A, Sabatino G, Cordinatori didattici: Della Pepa GM, La Rocca G, Ius T. (Arezzo ICLO teaching and research center- Roma Policlinico Gemelli).
7. Tutor for fellows in neurosurgery during neurosurgical training from February 2016 to present (University of Padua).
8. Neurosurgical lessons for ophthalmology fellows (2018, University of Udine).
9. Neurosurgical lessons for neurology fellows (2020, University of Udine).
10. Neurosurgical lessons for medical students (2020-2021, University of Udine).
11. Classroom for awake surgery in Neurosurgery (webinar SINCH, June 2021).

**Computer skills and competences**

- Excellent knowledge of PC and Macintosh systems.
- Good training in imaging elaboration software (DTI-studio, TrackVis, MRICron, FSL, Osirix).
- Excellent training in statistical software (SPSS, STATA, MedCalc).

**Technical skills and competences**

- Brain Mapping, Awake Surgery, DTI fibers-tracking reconstruction, Intraoperative US, intraoperative 5-ALA, virtual planning in skull base lesions

Mother tongue(s) **Italian**

Other language(s) **English**

Self-assessment  
European level (\*)

**Language**

| Understanding |         | Speaking           |                   | Writing |
|---------------|---------|--------------------|-------------------|---------|
| Listening     | Reading | Spoken interaction | Spoken production |         |
| B2            | B2      | B2                 | B2                | C1      |

(\*) [Common European Framework of Reference for Languages](#)

## Selected Papers

1. The benefit of early surgery on overall survival in incidental low grade glioma patients: a multicenter study. Ius T, Ng S, Young JS, Tomasino B, Polano M, Ben-Israel D, Kelly JJP, Skrap M, Duffau H, Berger MS. *Neuro Oncol*. 2021 Sep 8;noab210. doi: 10.1093/neuonc/noab210.  
*First Name, Corresponding Author, IF=12.300.*
2. Prediction of Speech Onset by Micro-Electrocorticography of the Human Brain. Delfino E, Pastore A, Zucchini E, Cruz MFP, Ius T, Vomero M, D'Ausilio A, Casile A, Skrap M, Stieglitz T, Fadiga L. *Int J Neural Syst*. 2021 Jul;31(7):2150025. doi: 10.1142/S0129065721500258. Epub 2021 Jun 14. PMID: 34130614.  
*IF=5.604.*
3. Advances in Multidisciplinary Management of Skull Base Meningiomas. Ius T, Tel A, Minniti G, Somma T, Solari D, Longhi M, De Bonis P, Scerrati A, Caccese M, Barresi V, Fiorentino A, Gorgogliione L, Lombardi G, Robiony M. *Cancers (Basel)*. 2021 May 28;13(11):2664. doi: 10.3390/cancers13112664. PMID: 34071391.  
*First Name, Corresponding Author, IF=6.639.*
4. Multimodal integrated approaches in low grade glioma surgery. Ius T, Mazzucchi E, Tomasino B, Pauletto G, Sabatino G, Della Pepa GM, La Rocca G, Battistella C, Olivi A, Skrap M. *Sci Rep*. 2021 May 11;11(1):9964. doi: 10.1038/s41598-021-87924-2. PMID: 33976246.  
*First Name, Corresponding Author, IF=4.739.*
5. Pre-Surgery Cognitive Performance and Voxel-Based Lesion-Symptom Mapping in Patients with Left High-Grade Glioma. Guarracino I, Ius T, Baiano C, D'Agostini S, Skrap M, Tomasino B. *Cancers (Basel)*. 2021 Mar 23;13(6):1467. doi: 10.3390/cancers13061467. PMID: 33806837.  
*Second Name, IF=6.639.*
6. Risk Assessment by Pre-surgical Tractography in Left Hemisphere Low-Grade Gliomas. Ius T, Somma T, Baiano C, Guarracino I, Pauletto G, Nilo A, Maieron M, Palese F, Skrap M, Tomasino B. *Front Neurol*. 2021 Feb 15;12:648432. doi: 10.3389/fneur.2021.648432. eCollection 2021. PMID: 33679596.  
*First Name, Corresponding Author, IF=4.003.*
7. Clinical Management of Diffuse Low-Grade Gliomas. Lombardi G, Barresi V, Castellano A, Tabouret E, Pasqualetti F, Salvalaggio A, Cerretti G, Caccese M, Padovan M, Zagonel V, Ius T. *Cancers (Basel)*. 2020 Oct 16;12(10):3008. doi: 10.3390/cancers12103008. PMID: 33081358.  
*Last Name, IF=6.639.*
8. Application of an Artificial Intelligence Algorithm to Prognostically Stratify Grade II Gliomas. Cesselli D, Ius T, Isola M, Del Ben F, Da Col G, Bulfoni M, Turetta M, Pegolo E, Marzinotto S, Scott CA, Mariuzzi L, Di Loreto C, Beltrami AP, Skrap M. *Cancers (Basel)*. 2019 Dec 22;12(1):50. doi: 10.3390/cancers12010050. PMID: 31877896.  
*Cesselli D. and Ius T. shared first authorship, IF=6.639.*

## Selected Papers

9. Is age an additional factor in the treatment of elderly patients with glioblastoma? A new stratification model: an Italian Multicenter Study. Ius T, Somma T, Altieri R, Angileri FF, Barbagallo GM, Cappabianca P, Certo F, Cofano F, D'Elia A, Della Pepa GM, Esposito V, Fontanella MM, Germanò A, Garbossa D, Isola M, La Rocca G, Maiuri F, Olivi A, Panciani PP, Pignotti F, Skrap M, Spena G, Sabatino G. *Neurosurg Focus*. 2020 Oct;49(4):E13. doi: 10.3171/2020.7.FOCUS20420.PMID: 33002864.  
*First Name, Corresponding Author, IF=4.047.*
10. What do we know about pre- and postoperative plasticity in patients with glioma? A review of neuroimaging and intraoperative mapping studies. Cargnelutti E, Ius T, Skrap M, Tomasino B. *Neuroimage Clin*. 2020;28:102435. doi: 10.1016/j.nicl.2020.102435. Epub 2020 Sep 14.PMID: 32980599.  
*Second Name, IF= 4.881.*
11. Intracranial Meningiomas in the Elderly: Clinical, Surgical and Economic Evaluation. A Multicentric Experience. Cannizzaro D, Tropeano MP, Zaed I, De Robertis M, Olei S, Vindigni M, Pegolo E, Bagatto D, Cardia A, Maira G, Fornari M, Skrap M, Ius T. *Cancers (Basel)*. 2020 Sep 20;12(9):2685. doi: 10.3390/cancers12092685.PMID: 32962243.  
*Last Name, IF=6.639.*
12. Mismatch-Repair Protein Expression in High-Grade Gliomas: A Large Retrospective Multicenter Study. Caccese M, Ius T, Simonelli M, Fassan M, Cesselli D, Dipasquale A, Cavallin F, Padovan M, Salvalaggio A, Gardiman MP, Skrap M, Zagonel V, Lombardi G. *Int J Mol Sci*. 2020 Sep 14;21(18):6716. doi: 10.3390/ijms21186716.PMID: 32937743.  
*Second Name, IF= 5.923.*
13. Phonological and surface dyslexia in individuals with brain tumors: Performance pre-, intra-, immediately post-surgery and at follow-up. Tomasino B, Ius T, Skrap M, Luzzatti C. *Hum Brain Mapp*. 2020 Dec;41(17):5015-5031. doi: 10.1002/hbm.25176. Epub 2020 Aug 28.PMID: 32857483.  
*Second Name, IF=5.038.*
14. Diffuse low grade glioma and pregnancy: Practical considerations and clinical tips. Somma T, Baiano C, Santi L, Sabatino G, Della Pepa GM, La Rocca G, Cappabianca P, Olivi A, Skrap M, Ius T. *Clin Neurol Neurosurg*. 2020 Nov;198:106110. doi: 10.1016/j.clineuro.2020.106110. Epub 2020 Aug 2.PMID: 32818754.  
*Last Name, Corresponding Author, IF=1.676.*
15. A multinodular and vacuolating neuronal tumor of the cerebrum (MVNT) with glioma-like appearance. Bagatto D, Ius T, Pegolo E, Morassi M. *Acta Neurol Belg*. 2020 Jul 6. doi: 10.1007/s13760-020-01426-y. Online ahead of print.PMID: 32632711.  
*Second Name, IF=2.396.*



## Selected Papers

16. Italian consensus and recommendations on diagnosis and treatment of low-grade gliomas. An intersociety (SINch/AINO/SIN) document. Rudà R, Angileri FF, Ius T, Silvani A, Sarubbo S, Solari A, Castellano A, Falini A, Pollo B, De I Basso De Caro M, Papagno C, Minniti G, De Paula U, Navarra P, Nicolato A, Salmaggi A, Pace A, Fabi A, Caffo M, Lombardi G, Carapella CM, Spena G, Iacoangeli M, Fontanella M, Germanò AF, Olivi A, Bello L, Esposito V, Skrap M, Soffietti R; SINch Neuro-Oncology Section, AINO and SIN Neuro-Oncology Section. *J Neurosurg Sci.* 2020 Aug;64(4):313-334. doi: 10.23736/S0390-5616.20.04982-6. Epub 2020 Apr 29. PMID: 32347684.  
*Third Name, IF= 2.279. An Intersociety Study ; SINch Neuro-Oncology Section, AINO and SIN Neuro-Oncology Section. J Neurosurg*
- 17 5-Aminolevulinic Acid and Contrast-Enhanced Ultrasound: The Combination of the Two Techniques to Optimize the Extent of Resection in Glioblastoma Surgery. Della Pepa GM, Ius T, La Rocca G, Gaudino S, Isola M, Pignotti F, Rapisarda A, Mazzucchi E, Giordano C, Dragonetti V, Chiesa S, Balducci M, Gessi M, Skrap M, Olivi A, Marchese E, Sabatino G. *Neurosurgery.* 2020 Jun 1;86(6):E529-E540. doi: 10.1093/neuros/nyaa037. PMID: 32186345.  
*Second Name, IF= 4.654, Multicenter Study.*
- 18 Mechanisms of malignancy in glioblastoma cells are linked to mitochondrial Ca<sup>2+</sup> uniporter upregulation and higher intracellular Ca<sup>2+</sup> levels. Li X, Spelat R, Bartolini A, Cesselli D, Ius T, Skrap M, Caponnetto F, Manini I, Yang Y, Torre V. *J Cell Sci.* 2020 Mar 24;133(6):jcs237503. doi: 10.1242/jcs.237503. PMID: 32051286.  
*IF=5.285.*
- 19 Predictors of Postoperative Seizure Outcome in Low Grade Glioma: From Volumetric Analysis to Molecular Stratification. Ius T, Pauletto G, Tomasino B, Maieron M, Budai R, Isola M, Cesselli D, Lettieri C, Skrap M. *Cancers (Basel).* 2020 Feb 8;12(2):397. doi: 10.3390/cancers12020397. PMID: 32046310.  
*First Name, Corresponding Author, IF=6.639.*
- 20 A Novel Comprehensive Clinical Stratification Model to Refine Prognosis of Glioblastoma Patients Undergoing Surgical Resection. Ius T, Pignotti F, Della Pepa GM, La Rocca G, Somma T, Isola M, Battistella C, Gaudino S, Polano M, Dal Bo M, Bagatto D, Pegolo E, Chiesa S, Arcicasa M, Olivi A, Skrap M, Sabatino G. *Cancers (Basel).* 2020 Feb 7;12(2):386. doi: 10.3390/cancers12020386. PMID: 32046132.  
*First Name, Corresponding Author, IF=6.639.*
- 21 Glioblastoma: from volumetric analysis to molecular predictors. Ius T, Pignotti F, Della Pepa GM, Bagatto D, Isola M, Battistella C, Gaudino S, Pegolo E, Chiesa S, Arcicasa M, La Rocca G, Olivi A, Skrap M, Sabatino G. *J Neurosurg Sci.* 2020 Feb 4. doi: 10.23736/S0390-5616.20.04850-X. Online ahead of print. PMID: 32031360.  
*First Name, Corresponding Author, IF=2.279.*

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22. Multimodal Assessment Shows a Mostly Preserved Cognitive Status in Incidentally Discovered Low Grade Gliomas: A Single Institution Study. Guarracino I, Ius T, Pegolo E, Cesselli D, Skrap M, Tomasino B. *Cancers*(Basel). 2020 Jan 8;12(1):156. doi: 10.3390/cancers12010156. PMID: 31936400.  
*Second name, IF=6.639.*
23. Meningioma can lead to pre-operative cognitive alterations even if localized in sensorimotor areas: A multimodal MRI-neuropsychological study in a series of 46 patients. Guarracino I, Ius T, Skrap M, Tomasino B. *Neuropsychologia*. 2020 Feb 3;137:107288. doi: 10.1016/j.neuropsychologia.2019.107288. Epub 2019 Nov 30. PMID: 31790726  
*Second Name, IF= 2.506.*
24. Incidental Low-Grade Gliomas: Single-Institution Management Based on Clinical, Surgical, and Molecular Data. Ius T, Cesselli D, Isola M, Pauletto G, Tomasino B, D'Auria S, Bagatto D, Pegolo E, Beltrami AP, Loreto CD, Skrap M. *Neurosurgery*. 2020 Mar 1;86(3):391-399. doi: 10.1093/neuros/nyz114. PMID: 31260076.  
*First Name, Corresponding Author, IF=4.853.*
25. Semaphorin-7A on Exosomes: A Promigratory Signal in the Glioma Microenvironment. Manini I, Ruaro ME, Sgarra R, Bartolini A, Caponnetto F, Ius T, Skrap M, Di Loreto C, Beltrami AP, Manfioletti G, Cesselli D. *Cancers* (Basel). 2019 May 30;11(6):758. doi: 10.3390/cancers11060758. PMID: 31151295.  
*IF=6.639.*
26. Combining Clinical and Molecular Data to Predict the Benefits of Carmustine Wafers in Newly Diagnosed High-Grade Gliomas. Ius T, Cesselli D, Isola M, Toniato G, Pauletto G, Sciacca G, Fabbro S, Pegolo E, Rizzato S, Beltrami AP, di Loreto C, Skrap M. *Curr Treat Options Neurol*. 2018 Feb 23;20(2):3. doi: 10.1007/s11940-018-0489-2. PMID: 29476361.  
*First Name, Corresponding Author, IF=3.851.*
27. An NF-κB signature predicts low-grade glioma prognosis: a precision medicine approach based on patient-derived stem cells. Ius T, Ciani Y, Ruaro ME, Isola M, Sorrentino M, Bulfoni M, Candotti V, Correcig C, Bourkoula E, Manini I, Pegolo E, Mangoni D, Marzinotto S, Radovic S, Toffoletto B, Caponnetto F, Zanello A, Mariuzzi L, Di Loreto C, Beltrami AP, Piazza S, Skrap M, Cesselli D. *Neuro Oncol*. 2018 May 18;20(6):776-787. doi: 10.1093/neuonc/nox234. PMID: 29228370.  
*First Name, IF=10.091*
28. Quantitative Diffusion Tensor Imaging Analysis of Low-Grade Gliomas: From Preclinical Application to Patient Care. Ius T, Turella L, Pauletto G, Isola M, Maieron M, Sciacca G, Budai R, D'Agostini S, Eleopra R, Skrap M. *World Neurosurg*. 2017 Jan;97:333-343. doi: 10.1016/j.wneu.2016.10.006. Epub 2016 Oct 12. PMID: 27744082.  
*First Name, Corresponding Author, IF=1.924.*

29. Independent Component Decomposition of Human Somatosensory Evoked Potentials Recorded by Micro-Electrocorticography. Rembado I, Castagnola E, Turella L, Ius T, Budai R, Ansaldo A, Angotzi GN, Debertoldi F, Ricci D, Skrap M, Fadiga L. *Int J Neural Syst.* 2017 Jun;27(4):1650052. doi: 10.1142/S0129065716500520. Epub 2016 Aug 18. PMID: 27712455.  
*IF=6.333.*
30. Brain mapping: a novel intraoperative neuropsychological approach. Skrap M, Marin D, Ius T, Fabbro F, Tomasino B. *J Neurosurg.* 2016 Oct;125(4):877-887. doi: 10.3171/2015.10.JNS15740. Epub 2016 Feb 5. PMID: 26848912.  
*Third Name, IF=4.059.*

In compliance with the GDPR (EU Regulation 2016/679) and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document”.

La sottoscritta certifica che quanto sopra riportato ed attestato corrisponde al vero, ai sensi e per gli effetti del D.P.R. 28 dicembre 2000 n. 445, consapevole delle sanzioni penali previste dall'art.76 del medesimo D.P.R. per le ipotesi di falsità in atti e dichiarazioni mendaci, consapevole altresì che ai sensi dell'art.75 del D.P.R. stesso, qualora emerga la non veridicità del contenuto della dichiarazione, il dichiarante decade dai benefici eventualmente conseguenti al provvedimento emanato sulla base della dichiarazione non veritiera

Dichiara, altresì, di essere informato/a, secondo quanto previsto dal Decreto legislativo 10 agosto 2018, n. 101 che adegua il Codice in materia di protezione dei dati personali (Decreto legislativo 30 giugno 2003, n. 196) alle disposizioni del Regolamento (UE) 2016/679 – GDPR che i dati personali raccolti saranno trattati, anche con strumenti informatici, esclusivamente nell'ambito del procedimento per il quale la presente dichiarazione viene resa e allega copia di documento di identità (carta d'identità) o di riconoscimento equipollente (passaporto, patente di guida, patente nautica, libretto di pensione, porto d'armi, tessere di riconoscimento, purché muniti di fotografia e di timbro o altra segnatura equipollente rilasciate da amministrazione dello Stato) in corso di validità.

September 29, 2021, Udine  
Tamara Ius MD, PhD