

Curriculum Vitae

Dr. Bianconi Andrea, MD (07/05/1992)

Phone: 3475805577

Mail: andrea.bianconi@edu.unito.it

Address: via Gian Francesco De Marchi 10, Bogliasco (Genova), Italy

Work Experience

- From July 1, 2024 – to date: University Researcher (RTDa) at the University of Genoa, DINOEMI.
- From December 27, 2023 – to date: Neurosurgeon Medical Director at the Neurosurgery Clinic Unit, IRCCS Policlinico San Martino, Genoa (Prof. Zona)
- From November 1, 2018 to October 31, 2023: Resident in Neurosurgery, AOU Città della Salute e della Scienza di Torino (Prof. Garbossa)
- February 15, 2023 – March 6, 2023: Clinical Observer in Neurosurgery, Santa Chiara Hospital, Trento (Dott. Sarubbo)
- November 1, 2022 – February 1, 2023: Clinical Observer at Barrow Neurological Institute, Phoenix, USA (Dr. Sanai, Dr. Lawton)
- May 1, 2019 – November 1, 2019: Resident in Neurosurgery at IRCCS Policlinico San Martino, Genoa (prof. Zona)
- February 1, 2018 – April 30, 2018: Clinical Fellow at the Department of Neurosurgery, International Neuroscience Institute, Hannover (Prof. A. Samii)

Academic roles

Since November 2024, Guest Associate Editor for Frontiers in Neurology (IF: 2.7) in Neuro-Oncology and Neurosurgical Oncology for the Research Topic “Artificial Intelligence in Neurosurgical Practices: Current Trends and Future Opportunities”

Since June 14, 2023, member of the Editorial Review Board for the international journal Frontiers in Oncology, specifically for the section Cancer Imaging and Image-directed Interventions (IF 4.9 updated as of 01/29/24, Lausanne, Switzerland). Focus of the scientific publications managed: primary and secondary brain tumors, PET diagnostics with amino acids, advanced imaging.

Since March 11, 2023, Guest Editor for the international journal International Journal of Molecular Sciences (IF 5.6 updated as of 01/29/24) for the Special Issue titled “Machine Learning in Brain Tumors and Neurovascular Disease: Focus on Molecular Neuroscience” with deadline April 15, 2024.

Since February 27, 2023, Guest Editor for the international journal Cancers (IF 5.2 updated as of 04/19/2022, Basel, Switzerland) for the Special Issue titled “Intraoperative Visualization Techniques and Advanced Imaging in Brain Tumors” with a deadline of May 31, 2024.

Since March 28, 2024, member of the Editorial Review Board for Technology in Cancer Research & Treatment (IF: 2.8).

Education and Training

- March 2018: M.D., Summa Cum Laude

Faculty of Medicine and Surgery, University of Turin, Italy (2011-2018).

Thesis: Analysis of the prognostic factors conditioning the outcome of patients affected by trigeminal neuralgia that underwent microvascular decompression surgery. (Prof. M. Lanotte)

- October 2023: Neurosurgery Residency, University of Turin, Department of Neuroscience, Neurosurgery Unit, (Prof. D. Garbossa)
Thesis: Deep learning-based algorithm for postoperative glioblastoma MRI segmentation: a promising new tool for tumor burden assessment.

Publications on peer reviewed journals indexed in Pubmed/Scopus

Number of scientific publications: 35

Google Scholar H-index: 11

Scopus H-index: 11

Google Scholar citations: 293

Scopus citations: 252

Speaker at national or international conferences

Spring meeting Società Italiana di Neuro Oncologia (AINO), 17 may 2024, Turin

72° National Congress Società Italiana di Neurochirurgia (SINch), ottobre 2023, Padova

25° National Congress Società Italiana di Neuro Oncologia (AINO); Novembre 2023, Messina

European Association of Neurosurgical Societies Congress (EANS), 16-20 october 2022, Belgrade

71° National Congress Società Italiana di Neurochirurgia (SINch), 13-15 october 2022, Naples

24° National Congress Società Italiana di Neuro Oncologia (AINO); 28-29 October 2021, Ancona

70° National Congress Società Italiana di Neurochirurgia (SINch), Milan 14-16 ottobre 2021

69° National Congress Società Italiana di Neurochirurgia (SINch), Rome 14-15 october 2020

70° Jahrestagung der Deutschen Gesellschaft für Neurochirurgie, 12-15 May 2019, Würzburg

Courses

- 2023 Annual Spetzler Microneurosurgery Course Microneurosurgery of the Skull Base: Anterior Approaches, Anatomy and Techniques - Barrow Neurological Institute, 12-13 january 2023, prof. Morcos, Lawton
- 4th Annual Congress of Lateral Skull Base Surgery: Temporal Bone Course - Barrow Neurological Institute, 11-12 november 2022, prof. Almefty, Lawton
- Theoretical and practical course in neuroncology: petrous bone – Pozzilli, 28-29 october 2022, prof. Esposito, prof. Froelich
- Theoretical and practical course in neuroncology: Insular Gliomas – Milan 8-9 september 2022, Prof. Pessina
- Athens White Matter Dissection & Neurosurgical Anatomy Course—Athens, 15-19 may 2022, prof. Stranjelis
- I am Brain - Sixth Annual Conference, 1-3 april 2022, Prof. Samandouras
- EANS White Matter Dissection Course – Tours, 9-10 november 2021, Prof. Destrieux, prof. Meling

Memberships

Member of European Association of Neurosurgical Societies (EANS)

Member of Italian Neurosurgery Association (SINCh)

Member of Italian Association of Neuro-Oncology (AINO)

Reviewer activity

Dr. Bianconi currently serves as a Reviewer for the following international journals: World Neurosurgery, International Journal of Molecular Sciences, Genes, Cancers, Brain Sciences, Frontiers in Oncology, Neurosurgical Review, Journal of Neuro Oncology

List of publications

- 1) Updates in Glioblastoma Immunotherapy: An Overview of the Current Clinical and Translational Scenario.
Bianconi A, Palmieri G, Aruta G, Monticelli M, Zeppa P, Tartara F, Melcarne A, Garbossa D, Cofano F. *Biomedicines*. 2023 May 24;11(6):1520. doi: 10.3390/biomedicines11061520.
- 2) How Reliable Is Fluorescence-Guided Surgery in Low-Grade Gliomas? A Systematic Review Concerning Different Fluorophores.
Bianconi A, Bonada M, Zeppa P, Colonna S, Tartara F, Melcarne A, Garbossa D, Cofano F. *Cancers (Basel)*. 2023 Aug 16;15(16):4130. doi: 10.3390/cancers15164130.
- 3) Systematic Review on Tumor Microenvironment in Glial Neoplasm: From Understanding Pathogenesis to Future Therapeutic Perspectives.
Bianconi A, Aruta G, Rizzo F, Salvati LF, Zeppa P, Garbossa D, Cofano F. *Int J Mol Sci*. 2022 Apr 9;23(8):4166. doi: 10.3390/ijms23084166.
- 4) Anticoagulant therapy in high grade gliomas: a systematic review on state of the art and future perspectives.
Bianconi A, Prior A, Zona G, Fiaschi P. *J Neurosurg Sci*. 2023 Apr;67(2):236-240. doi: 10.23736/S0390-5616.21.05536-3.
- 5) To use or not to use antithrombotics in unruptured cerebrovascular malformations? A systematic review focusing on this clinical and surgical dilemma.
Bianconi A, Ceraudo M, Nico E, Minardi M, Allevi M, Prior A, Garbossa D, Zona G, Fiaschi P. *Neurosurg Focus*. 2023 Oct;55(4):E14. doi: 10.3171/2023.7.FOCUS23117.
- 6) A Systematic Review of Amino Acid PET Imaging in Adult-Type High-Grade Glioma Surgery: A Neurosurgeon's Perspective.
De Marco R, Pesaresi A, **Bianconi A**, Zotta M, Deandreis D, Morana G, Zeppa P, Melcarne A, Garbossa D, Cofano F. *Cancers (Basel)*. 2022 Dec 23;15(1):90. doi: 10.3390/cancers15010090.
- 7) Radiofrequency Ablation in Vertebral Body Metastasis with and without Percutaneous Cement Augmentation: A Systematic Review Addressing the Need for SPINE Stability Evaluation.
Colonna S, **Bianconi A**, Cofano F, Prior A, Di Perna G, Palmieri G, Zona G, Garbossa D, Fiaschi P. *Diagnostics (Basel)*. 2023 Mar 18;13(6):1164. doi: 10.3390/diagnostics13061164.
- 8) Long-term functional recovery in C5-C6 avulsions treated with distal nerve transfers.
Fasce I, Fiaschi P, **Bianconi A**, Sacco C, Staffa G, Capone C.

Neurol Res. 2023 Sep;45(9):867-873. doi: 10.1080/01616412.2021.1942410. Epub 2021 Jun 30.
PMID: 34193028

9) Prognostic Analysis of the IDH1 G105G (rs11554137) SNP in IDH-Wildtype Glioblastoma.

Saaïd A, Monticelli M, Ricci AA, Orlando G, Botta C, Zeppa P, **Bianconi A**, Osella-Abate S, Bruno F, Pellerino A, Rudà R, Cassoni P, Garbossa D, Cofano F, Bertero L.
Genes (Basel). 2022 Aug 12;13(8):1439. doi: 10.3390/genes13081439.

10) Bilateral idiopathic optic nerve sheath meningocele: A case report and literature review.

Morello A, **Bianconi A**, Cogoni M, Borgarello S, Garbossa D, Micon BM.
J Neurosci Rural Pract. 2022 Oct-Dec;13(4):781-784. doi: 10.25259/JNRP_5_2022. Epub 2022 Nov 2.

11) Fluorescence-Guided Surgery in Glioblastoma: 5-ALA, SF or Both? Differences between Fluorescent Dyes in 99 Consecutive Cases.

Zeppa P, De Marco R, Monticelli M, Massara A, **Bianconi A**, Di Perna G, Greco Crasto S, Cofano F, Melcarne A, Lanotte MM, Garbossa D.
Brain Sci. 2022 Apr 26;12(5):555. doi: 10.3390/brainsci12050555.

12) Elderly Glioblastoma Patients: The Impact of Surgery and Adjuvant Treatments on Survival: A Single Institution Experience.

Bruno F, Pellerino A, Pronello E, Palmiero R, Bertero L, Mantovani C, **Bianconi A**, Melcarne A, Garbossa D, Rudà R.
Brain Sci. 2022 May 11;12(5):632. doi: 10.3390/brainsci12050632.

13) Let Me See: Correlation between 5-ALA Fluorescence and Molecular Pathways in Glioblastoma: A Single Center Experience.

Specchia FMC, Monticelli M, Zeppa P, **Bianconi A**, Zenga F, Altieri R, Pugliese B, Di Perna G, Cofano F, Tartara F, Bertero L, Cassoni P, Melcarne A, Lanotte MM, Garbossa D.
Brain Sci. 2021 Jun 16;11(6):795. doi: 10.3390/brainsci11060795.

14) Deep learning-based algorithm for postoperative glioblastoma MRI segmentation: a promising new tool for tumor burden assessment.

Bianconi A, Rossi LF, Bonada M, Zeppa P, Nico E, De Marco R, Lacroce P, Cofano F, Bruno F, Morana G, Melcarne A, Ruda R, Mainardi L, Fiaschi P, Garbossa D, Morra L.
Brain Inform. 2023 Oct 6;10(1):26. doi: 10.1186/s40708-023-00207-6.

15) Distant Recurrence of a Cerebral Cavernous Malformation in the Vicinity of a Developmental Venous Anomaly: Case Report of Local Oxy-Inflammatory Events.

Bianconi A, Salvati LF, Perrelli A, Ferraris C, Massara A, Minardi M, Aruta G, Rosso M, Massa Micon B, Garbossa D, Retta SF.
Int J Mol Sci. 2022 Nov 24;23(23):14643. doi: 10.3390/ijms232314643.

16) Foramen Caecum Vein Involved in Dural Arteriovenous Fistula Fed by Sphenopalatine Arteries: A Case Report.

Salvati LF, Palmieri G, Minardi M, **Bianconi A**, Melcarne A, Garbossa D.
NMC Case Rep J. 2021 Jul 1;8(1):371-376. doi: 10.2176/nmccrj.cr.2020-0242. eCollection

2021.

- 17) Prognostic Significance of Preoperative Geometric Changes in the Internal Acoustic Canal for Hearing Preservation in Vestibular Schwannoma Surgery.
Giordano M, **Bianconi A**, Gallieni M, Metwali H, Samii M, Samii A.
World Neurosurg. 2019 Dec;132:e223-e227. doi: 10.1016/j.wneu.2019.08.194. Epub 2019 Sep 5.
- 18) Management of Extramedullary Intradural Spinal Tumors: The Impact of Clinical Status, Intraoperative Neurophysiological Monitoring and Surgical Approach on Outcomes in a 12-Year Double-Center Experience.
Cofano F, Giambra C, Costa P, Zeppa P, **Bianconi A**, Mammi M, Monticelli M, Di Perna G, Junemann CV, Melcarne A, Massaro F, Ducati A, Tartara F, Zenga F, Garbossa D.
Front Neurol. 2020 Dec 18;11:598619. doi: 10.3389/fneur.2020.598619. eCollection 2020.
- 19) Practical Algorithm for the Management of Multisutural Craniosynostosis with Associated Chiari Malformation and/or Hydrocephalus.
Aruta G, Fiaschi P, Ceraudo M, Piatelli G, Capra V, **Bianconi A**, Rossi A, Secci F, Pavanello M.
Pediatr Neurosurg. 2023;58(2):67-79. doi: 10.1159/000529129. Epub 2023 Jan 31.
- 20) Cervical Spine Inhomogeneously Enhancing Lesion: Avoiding Confirmation Bias
F Cofano, **A Bianconi**, M Ajello, F Zenga
Journal of Neurosciences in Rural Practice 13 (01), 134-136
- 21) Intraorbital schwannomas: case report and systematic review of the literature through the history in the last 20 years
P Fiaschi, **A Bianconi**, A Balestrino, A Prior, D Battaglini, P Anania, M Martini, S Gennaro
Confinia Cephalalgica et Neurologica, 2021 vol 1
- 22) Effects of Levetiracetam and Lacosamide on survival and seizure control in IDH-wild type glioblastoma during temozolomide plus radiation adjuvant therapy
A Bianconi, E Koumantakis, A Gatto, P Zeppa, A Saaïd, E Nico, F Bruno, A Pellerino, F Rizzo, CV Junemann, A Melcarne, D Garbossa, P Dalmasso, F Cofano. Brain and Spine Volume 4, 2024, 102732 <https://doi.org/10.1016/j.bas.2023.102732>
- 23) Assessing the Relationship between Surgical Timing and Postoperative Seizure Outcomes in Cavernoma-Related Epilepsy: A Single-Institution Retrospective Analysis of 63 Patients with a Review of the Literature.
Nico E, Adereti CO, Hackett AM, **Bianconi A**, Naik A, Eberle AT, Cifre Serra PJ, Koester SW, Malnik SL, Fox BM, Hartke JN, Winkler EA, Catapano JS, Lawton MT.
Brain Sci. 2024 May 13;14(5):494. doi: 10.3390/brainsci14050494. PMID: 38790473
- 24) Brain metastases: Comparing clinical radiological differences in patients with lung and breast cancers treated with surgery.
Armocida D, Zancana G, **Bianconi A**, Cofano F, Pesce A, Ascenzi BM, Bini P, Marchioni E, Garbossa D, Frati A.
World Neurosurg X. 2024 May 1;23:100391. doi: 10.1016/j.wnsx.2024.100391 PMID: 38725976

- 25) The Impact of Lateral Ventricular Opening in the Resection of Newly Diagnosed High-Grade Gliomas: A Single Center Experience.
Cofano F, **Bianconi A**, De Marco R, Consoli E, Zeppa P, Bruno F, Pellerino A, Panico F, Salvati LF, Rizzo F, Morello A, Rudà R, Morana G, Melcarne A, Garbossa D.
Cancers (Basel). 2024 Apr 19;16(8):1574. doi: 10.3390/cancers16081574. PMID: 38672655
- 26) Prognostic Factors in Idiopathic Normal Pressure Hydrocephalus Patients After Ventriculo-Peritoneal Shunt: Results from a Single-Institution Observational Cohort Study with Long Term Follow-Up.
Bianconi A, Colonna S, Minardi M, Di Perna G, Ceroni L, Nico E, Garbossa D, Borgarello S, Cofano F.
World Neurosurg. 2024 May 15:S1878-8750(24)00823-4. doi: 10.1016/j.wneu.2024.05.060. PMID: 38759789
- 27) Anamnestic radiological metastases outcome surgical score (ARMO-S). A purpose of a predictive surgical scoring system for brain metastases.
Armocida D, Ius T, Zancana G, **Bianconi A**, Cofano F, Tartara F, Frati A, Garbossa D, Salvati M.
J Clin Neurosci. 2024 Jul;125:68-75. doi: 10.1016/j.jocn.2024.05.011. PMID: 38759350
- 28) Understanding and Managing Pineal Parenchymal Tumors of Intermediate Differentiation: An In-Depth Exploration from Pathology to Adjuvant Therapies.
Bianconi A, Panico F, Lo Zito B, Do Trinh A, Cassoni P, Ricardi U, Garbossa D, Cofano F, Mantovani C, Bertero L.
J Clin Med. 2024 Feb 23;13(5):1266. doi: 10.3390/jcm13051266
- 29) Laser Interstitial Thermotherapy (LITT) in Recurrent Glioblastoma: What Window of Opportunity for This Treatment?
Morello A, **Bianconi A**, Rizzo F, Bellomo J, Meyer AC, Garbossa D, Regli L, Cofano F.
Technol Cancer Res Treat. 2024 Jan-Dec;23:15330338241249026. doi: 10.1177/15330338241249026. PMID: 38693845
- 30) Deep Learning for MRI Segmentation and Molecular Subtyping in Glioblastoma: Critical Aspects from an Emerging Field
M Bonada, L Rossi, G Carone , F Panico, F Cofano, P Fiaschi, D Garbossa, F Di Meco, **A Bianconi**
Biomedicines Aug 2024, 12(8), 1878; <https://doi.org/10.3390/biomedicines12081878>
- 31) Combined Fluorescence-Guided Surgery with 5-Aminolevulinic Acid and Fluorescein in Glioblastoma: Technical Description and Report of 100 Cases
A Pesaresi, P La Cava, M Bonada, P Zeppa, A Melcarne, F Cofano, P Fiaschi, D Garbossa, **A Bianconi**
Cancers Aug 2024, 16(16), 2771; <https://doi.org/10.3390/cancers16162771>
- 32) A novel scoring system proposal to guide surgical treatment indications for high grade gliomas in elderly patients: DAK-75.

Bianconi A, Presta R, La Cava P, De Marco R, Zeppa P, Lacroce P, Castaldo M, Bruno F, Pellerino A, Rudà R, Melcarne A, Garbossa D, Bo M, Cofano F. *Neurosurg Rev.* 2024 Oct 25;47(1):823. doi: 10.1007/s10143-024-03052-1.PMID: 39453521

33) DTI fiber-tracking parameters adjacent to gliomas: the role of tract irregularity value in operative planning, resection, and outcome.

Armocida D, **Bianconi A**, Zancana G, Jiang T, Pesce A, Tartara F, Garbossa D, Salvati M, Santoro A, Serra C, Frati A. *J Neurooncol.* 2024 Oct 15. doi: 10.1007/s11060-024-04848-3. Online ahead of print.PMID: 39404938

34) Systemic inflammatory markers and volume of enhancing tissue on post-contrast T1w MRI images in differentiating true tumor progression from pseudoprogression in high-grade glioma.

Satragno C, Schiavetti I, Cella E, Picichè F, Falcitano L, Resaz M, Truffelli M, Caneva S, Mattioli P, Esposito D, Ginulla A, Scaffidi C, Fiaschi P, D'Andrea A, **Bianconi A**, Zona G, Barletta L, Roccatagliata L, Castellan L, Morbelli S, Bauckneht M, Donegani I, Nozza P, Arnaldi D, Vidano G, Gianelli F, Barra S, Bennicelli E, Belgioia L; disease management team on Neuroncology of IRCCS Ospedale Policlinico San Martino. *Clin Transl Radiat Oncol.* 2024 Aug 30;49:100849. doi: 10.1016/j.ctro.2024.100849. eCollection 2024 Nov.PMID: 39318678

35) Deep Learning-Based Postoperative Glioblastoma Segmentation and Extent of Resection Evaluation: Development, External Validation, and Model Comparison

Santiago Cepeda, Roberto Romero, Lidia Luque, Daniel García-Pérez, Guillermo Blasco, Luigi Tommaso Luppino, Samuel Kuttner, Olga Esteban-Sinovas, Ignacio Arrese, Ole Solheim, Live Eikenes, Anna Karlberg, Ángel Pérez-Núñez, Olivier Zanier, BMed, Carlo Serra, Victor E Staartjes, Andrea **Bianconi**, Luca Francesco Rossi, Diego Garbossa, Trinidad Escudero, Roberto Hornero, Rosario Sarabia. *Neuro-Oncology Advances*, <https://doi.org/10.1093/noajnl/vdae199>, 16 November 2024