

BIOGRAPHICAL SKETCH

NAME: Luca Tiberi

POSITION TITLE: Group Leader of the Armenise-Harvard Laboratory of Brain Cancer – Associate Professor in Applied Biology– University of Trento, Italy

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Bologna, Italy	Master in Biotechnology	02/2004	Aging
University of Trieste, Italy	Ph.D in Molecular Medicine	04/2008	Molecular oncology
Free University of Brussels, Belgium	PostDoc	12/2015	Brain development
University of Trento, Italy	Associate Professor	Ongoing	Brain cancer, Organoids

A. Personal Statement

Human brain development/pathology have been the primary research focus throughout my scientific career of more than 20 years and are topics I am extremely passionate about. During my career, I have been studying the mechanisms underlying stem cell biology, embryology, mesodermal differentiation, neurogenesis, and morphogens involved in brain development. In the last years, I have exploited my scientific expertise to study brain cancer and in particular, pediatric brain cancer. With my research I have contributed to neuroscience and cancer fields, using human iPSCs technologies, in vivo models (Mus musculus), and human brain organoids.

B. Positions, Scientific Appointments, and Honors**Positions**

2019- Associate Professor, University of Trento, Italy.

2016- Group Leader, Armenise-Harvard Laboratory of Brain Cancer, CIBIO, Trento, Italy

2008-2015 PostDoctoral Fellow, Laboratory of Prof. Vanderhaeghen, ULB, Brussels, Belgium

2004-2008 Ph.D student, Laboratory of Prof. Giannino Del Sal, University of Trieste, Italy

Scientific Committees

Member of the Scientific Committee of the French National Cancer Institute (INCa), Grants Evaluation.

Member of the Scientific Committee of the Italian Association of Cancer Research (AIRC), Fellowship Evaluation.

Member of the Scientific Committee of the European Association of Neurooncology (EANO).

Honors

2023- Accademia dei Lincei – Francesco de Luca prize

2020- EMBO Young Investigator 2021-2025

2019- Winner of the BioItaly Investment Forum

2015 Prix Alvarenga, de Piauhy, Academie royale de Medecine de Belgique, Belgium

2009-2010 EMBO Long Term Fellowship

Research Grants

2025- MSCA Doctoral network, GAP-101227628.

2024- HORIZON-EIC-2023-PATHFINDEROPEN Bio-HhOST (101130747).

2023- FightKidsCancer Grant 2023 (478K euro)

2022- AIRC IG Grant (980K euro)

2019-2023 CARITRO Research Grant - (300K euro)

2018-2022 MyFirst AIRC Grant - (450K euro)

2016-2022 Armenise Harvard Career Development Award - (1M dollars)

C. Contributions to Science

Selected Presentations

2026 – Chamonix - Invited Speaker - Medulloblastoma in Mountains 2026
2025 – Lille - Invited Speaker - 7th React4Kids Congress
2025 – Heidelberg - Invited Speaker - EMBO YIP Meeting
2024 – Lisbon - Invited Speaker - Paediatric Cancer Symposium - Champalimaud Foundation
2024 – Tokyo - Invited speaker - JST-EMBO Matchmaking Workshop
2023 – Rotterdam - Invited Speaker - EANO – European Association of Neuro-oncology Meeting
2023 – Berlin - Invited Speaker - EACR meeting - Goodbye Flat Biology: Next Generation Cancer Models
2023 – Crete - Invited Speaker - Cell biology of the nervous system: Long-term resilience and vulnerability
2021 – Online - Invited Speaker - European Association of Neuro-Oncology
2015 – Ventura – USA - Speaker - Gordon Research Conferences - Stem Cell & Cancer
2015 – Max Delbrück Center - Berlin - Speaker - Brain Tumor Meeting
2013 – Harvard - Boston - Speaker - New Avenues for Brain Repair

Scientific Reviewer

Nature, Nature Cancer, Nature Communications, Nature Chemical Biology, Cell Reports, Stem Cell and Development, Cell Death and Differentiation, Mechanisms of Development, Molecular and Cellular Biology, Science Advances.

Grant Reviewer

UK Medical Research Council (MRC), Foundation Children Cancer free (KICA), Children's Cancer and Leukaemia Group (CCLG), Austrian Science Fund (FWF), The Brain Tumor Charity.

Patents

- PCT EP2012/063853 Generation of mesodermal cells from pluripotent stem cells.
- PCT EP2012/070025 BCL6-mediated modulation of cortical differentiation of neuronal progenitor cells.
- 2022 - WO2023073738A1 – Genetic ablation of quiescent cancer cells

Ten publications that are representative of my career

1) Lago C, Federico A, Leva G, Mack NL, Schwalm B, Ballabio C, Ganesello M, Abballe L, Giovannoni I, Reddel S, Rossi S, Leone N, Carai A, Mastronuzzi A, Bisio A, Soldano A, Quintarelli C, Locatelli F, Kool M, Miele E, Tiberi L*. Patient- and xenograft-derived organoids recapitulate pediatric brain tumor features and patient treatments. EMBO Mol Med. 2023 Dec 7. doi: 10.15252/emmm.202318199.

* Corresponding author

2) Lago C, Ganesello M, Santomaso L, Leva G, Ballabio C, Anderle M, Antonica F, Tiberi L*. Medulloblastoma and highgrade glioma organoids for drug screening, lineage tracing, co-culture and in vivo assay. Nature Protocols. 2023 May 29. doi: 10.1038/s41596-023-00839-2.

* Corresponding author

3) Antonica F, Santomaso L, Pernici D, Petrucci L, Aiello G, Cutarelli A, Conti L, Romanel A, Miele E, Tebaldi T, Tiberi L*. A slow-cycling/quiescent cells subpopulation is involved in glioma invasiveness. Nature Communications. 2022 Aug 15. doi: 10.1038/s41467-022-32448-0.

* Corresponding author

4) G. Aiello, C. Sabino, D. Pernici, M. Audano, F. Antonica, M. Ganesello, A. Quattrone, N. Mitro, A. Romanel, A. Soldano, L. Tiberi*. Transient rapamycin treatment during developmental stage extends lifespan in Mus musculus and Drosophila melanogaster. EMBO Reports 2022. doi: 10.15252/embr.202255299.

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5) Antonica F, Aiello G, Soldano A, Abballe L, Miele E and Tiberi L*. (2022) Modeling Brain Tumors: A Perspective Overview of in vivo and Organoid Models. Front. Mol. Neurosci. 15:818696. doi: 10.3389/fnmol.2022.818696.

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6) Ballabio C, Ganesello M, Lago C, Okonechnikov K, Anderle M, Aiello G, Antonica F, Gianni F, Giangaspero F, Hassan B, Pfister S, Tiberi L*. Notch1 switches progenitor competence in inducing medulloblastoma. Science Advances. 2021 Jun 23. doi: 10.1126/sciadv.abd2781.

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7) Ballabio C, Anderle M, Giancesello M, Lago C, Miele E, Cardano M, Aiello G, Piazza S, Caron D, Gianno F, Ciolfi A, Pedace L, Matronuzzi A, Tartaglia M, Locatelli F, Ferretti E, Giangaspero F and Tiberi L*. Modeling Medulloblastoma in vivo and with human cerebellar organoids. Nature Communications. 2020 Feb. doi: 10.1038/s41467-019-13989-3.

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8) Aiello G, Ballabio C, Ruggeri R, Fagnocchi L, Anderle M, Morassut I, Caron D, Garilli F, Gianno F, Giangaspero F, Piazza S, Romanel A, Zippo A, Tiberi L*. Truncated-Brpf1 cooperates with Smoothed to induce adult Shh Medulloblastoma. Cell Reports. 2019 Dec 17. doi: 10.1016/j.celrep.2019.11.046.

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9) Tiberi L, et al., A BCL6/BCoR/Sirt1 complex Triggers Neurogenesis and Suppresses Medulloblastoma by Repressing Sonic Hedgehog Signalling. Cancer Cell. 2014 Dec 8. doi: 10.1016/j.ccell.2014.10.021.

10) Tiberi L, et al., BCL6 induces neurogenesis through Sirt1-dependent epigenetic repression of selective Notch transcriptional targets. Nature Neuroscience. 2012 Dec;15. doi: 10.1038/nn.3264.