

Jacopo Zasso

ACADEMIC AND SCIENTIFIC CAREER

- Sept 2021 **Senior Technician**, Automated Stem Cell and Organoid Facility (ASCOF), Centre for
Present Neurogenomics, Human Technopole, Italy
- May 2018 **Post-doctoral fellow**, Lab. of Translational Genomics (Dir. Prof. A. Quattrone), Dept. CIBIO,
July 2021 University of Trento, Italy
Main research projects and activities
- Characterisation of the role of HuB in glioma stem cells tumorigenic competence
 - Development of *in vitro* and *in vivo* models of neuroblastoma and PNS disorders
 - Establishment of patients derived PBMCs and hiPSCs bank
 - Responsible for mouse colonies
- Mar 2019 **Cell Technology Core Facility scientist**, Dept. CIBIO, University of Trento, Italy
Dec 2019 *Main activities*
- Generation and characterisation of human induced pluripotent stem cells (hiPSCs)
 - Responsible for:
 - o Service activities
 - o Providing expertise to research laboratories
 - o Providing technical and safety training
- Nov 2014 **PhD student**, Lab. of Stem Cell Biology (Prof. L. Conti), Dept. CIBIO, University of Trento, Italy
Oct 2018 *Main research projects*
- Identification of molecular circuitries regulated by REST in glioma and neural stem cells
 - Development of *in vitro* models of brain disorders
 - Identification of culture procedure to obtain specialised neuronal subtypes from hPSCs
- Apr 2013 **Research fellow**, Lab. of Stem Cell Biology (Prof. L. Conti), DISFEB, University of Milan, Italy &
Oct 2014 Dept. CIBIO, University of Trento, Italy

EDUCATION

- Nov 2014 **PhD in Biomolecular Sciences**, Dept. CIBIO, University of Trento, Italy
Oct 2018 *Thesis: "Identification of REST-regulated molecular circuitries and targets exploitable for human glioma stem cells-targeted therapies"*
- Nov 2010 **Master in Pharmaceutical Biotechnology**, University of Milan, Italy
Mar 2013 Final grade: 110/110 *Cum Laude*
Thesis: "Identification of REST-governed molecular networks in glioblastoma cells having stem-like properties"
- May 2012 **Internship**, Lab. of Stem Cell Biology (Prof. L. Conti), Dept. Biomolecular and Pharmacological
Mar 2013 Sciences (DISFEB), University of Milan, Italy
- Nov 2006 **Bachelor in Pharmaceutical Biotechnology**, University of Milan, Italy
Mar 2010 *Thesis: "Development of a cellular model for studying TTF-1 in neuroendocrine cells"*
- Jan 2010 **Internship**, Lab. of Developmental Neurobiology (Prof. R. Maggi), Dept. Endocrinology,
Mar 2010 Physiopathology and Applied Biology (DEFIB), University of Milan, Italy

OTHER ACTIVITIES

- Member of the CorEuStem, the European network for Stem Cell Core Facilities
- Responsible for the Stem Cell culture room at Dept. CIBIO, University of Trento, Italy (2014 – 2017)
- Co-organiser of scientific seminars (“2017 PhD colloquia”, University of Trento, Italy)
- Assistant supervisor for Bachelor and Master Degree internships (University of Milan and University of Trento, Italy)
- Laboratory assistant for the practical course on Cellular Technologies (2009-2011, University of Milan, Italy)

CONFERENCES & WORKSHOPS

1. CorEuStem Annual Meeting 2022. Castelldefels, 29 June - 1 July 2022
2. ISSCR 2022 Annual Meeting. San Francisco (USA), 15-18 June 2022
3. Core Technologies for Life Sciences 2021. 13-15 September 2021
4. Building a successful career in a life science core facility. Paris (France), 20-22 November 2019
5. Biennial congress of the Italian Association of Cell Biology and Differentiation (ABCD). Bologna (Italy), 21-23 September 2017
6. III Giornata Malattia di Kennedy. Milan (Italy), 11-12 November 2016
7. Cancer Stem Cell Conference. Cleveland (USA), 20-23 September 2016
8. XVI Congresso Nazionale AIBG. Naples (Italy), 26-27 September 2014
9. 60° convegno Gruppo Embriologico Italiano (GEI). Trento (Italy), 15-18 June 2014
10. ISSCR Regional Forum: Stem Cells in Translation. Florence (Italy), 15-18 September 2013
11. Summer School: Neural stem cells in development and disease. Trento (Italy), 4-8 September 2012

TECHNICAL SKILLS

Cell Biology	Floating and adherent cell cultures Somatic cell reprogramming to hiPSCs Cell differentiation to specialised cell types <i>in vitro</i> Pharmacological treatment Assays to evaluate cellular proliferation, differentiation and death Micro-chemotaxis and three-dimensional cellular migration assays Nucleic acids transduction
Molecular Biology	Immunoblotting qRT-PCR individual-nucleotide resolution UV crosslinking and immunoprecipitation (iCLIP) Immunofluorescence Viral particles preparation
Animal models	Heterotopic and genetic tumour mouse models Management of mouse colonies
Imaging Techniques	Transmitted light microscopy Wide-field fluorescence microscopy Live-cell imaging Live-animal imaging
Computer Skills	Operative systems: Mac OS, Windows Applicative programs: Microsoft Office, Apple Office Statistical analysis programs: GraphPad Prism Imaging analysis programs: ImageJ/Fiji, LAS AF, LAS X, Zen Blue, Adobe Illustrator & Photoshop
Languages	Italian & English

1. *CAG repeat expansion in the Huntington's disease gene correlates with defective neural linear and back-splicing.* Ayyildiz D, Monziani A, Tripathi T, Döring J, Bergonzoni G, Kerschbamer E, Di Leva F, Pennati E, Donini L, Kovalenko M, **Zasso J**, Conti L, Wheeler VC, Dieterich C, Piazza S, Dessi E, and Biagioli M. (*in revision*)
2. *One-shot analysis of translated mammalian lncRNAs with AHARIBO.* Minati L, Firrito C, Del Piano A, Peretti A, Sidoli S, Peroni D, Belli R, Gandolfi F, Romanel A, Bernabò P, **Zasso J**, Quattrone A, Guella G, Lauria F, Viero G, Clamer M. *Elife* 2021 (*Research article*)
3. *Artificial cells drive neural differentiation.* Toparlak OD, **Zasso J**, Bridi S, Dalla Serra M, Macchi P, Conti L, Baudet ML, Mansy SS. *Sci Adv.* 2020 (*Research article*)
4. *Vertically-Aligned Functionalized Silicon Micropillars for 3D Culture of Human Pluripotent Stem Cell-Derived Cortical Progenitors.* Cutarelli A, Ghio S, **Zasso J**, Speccher A, Scarduelli G, Rocuzzo M, Crivellari M, Pugno NM, Casarosa S, Boscardin M, Conti L. *Cells* 2019 (*Research article*)
5. *Epsins Regulate Mouse Embryonic Stem Cell Exit from Pluripotency and Neural Commitment by Controlling Notch Activation.* Cardano M, **Zasso J**, Ruggiero L, Di Giacomo G, Marcatili M, Cremona O, Conti L. *Stem Cells Int.* 2019 (*Research article*)
6. *Inducible Alpha-Synuclein Expression Affects Human Neural Stem Cells' Behaviour.* **Zasso J**, Ahmed M, Cutarelli A, Conti L. *Stem Cells Dev.* 2018 (*Research article*)
7. *Hit and go CAS9 delivered through a lentiviral based self-limiting circuit.* Petris G, Casini A, Montagna C, Lorenzin F2, Prandi D, Romanel A, **Zasso J**, Conti L, Demichelis F, Cereseto A. *Nat Commun.* 2017 (*Research article*)
8. *Establishment of induced pluripotent stem cell (iPSC) line from 55-year old male patient with hemorrhagic Moyamoya disease.* Cardano M, Marsoner F, Marcatili, Karnavas T, **Zasso J**, Lanterna LA and Conti L. *Stem Cell Res.* 2016 (*Research article*)
9. *Establishment of induced pluripotent stem cell (iPSC) line from an 8-year old female patient with ischemic Moyamoya disease.* Cardano M, Marsoner F, **Zasso J**, Marcatili, Karnavas T, Lanterna LA and Conti L. *Stem Cell Res.* 2016 (*Research article*)
10. *The activation of M2 muscarinic receptor inhibits cell growth and survival in human glioblastoma cancer stem cells.* Alessandrini F, Cristofaro I, Di Bari M, **Zasso J**, Conti L, Tata AM. *Int Immunopharmacol.* 2015 (*Research article*)
11. *Neurodevelopmental origin and adult neurogenesis of the neuroendocrine hypothalamus.* Maggi R, **Zasso J**, Conti L. *Front Cell Neurosci* 2015 (*Review*)
12. *Establishment of a radial glia-like mouse fetal hypothalamic neural stem cell line (AC1) able to differentiate into neuroendocrine cells.* Cariboni A, Conti L, André V, Aprile D, **Zasso J**, Maggi R. *Neurogenesis* 2014 (*Research article*)
13. *Systems for ex-vivo Isolation and Culturing of Neural Stem Cells.* Casarosa S, **Zasso J** and Conti L (2013)., *Neural Stem Cells - New Perspectives (Book chapter)*