

**UNIVERSITY OF MILAN**

Public selection for recruiting No.\_1\_ tenure track researcher(s) (RTT) for competition sector \_05/F1 - Applied Biology\_\_, (scientific-disciplinary sector BIO/13 - Applied Biology) at the Department of ONCOLOGY AND HEMATOLOGY-ONCOLOGY, (announcement published in Official Gazette No. 35 of\_30/04/2024\_\_) - Competition code 5538

## **Nicolò Caporale**

### **CURRICULUM VITAE**

**PERSONAL DATA**

<b>SURNAME</b>	<b>CAPORALE</b>
<b>NAME</b>	<b>NICOLÒ</b>
<b>DATE OF BIRTH</b>	<b>[REDACTED]</b>
<b>ORCHID</b>	<b>0000-0001-8097-4320</b>

**QUALIFICATIONS****DEGREE**

Medical Degree. 09/2008 - 07/2014

Alma Mater Studiorum University of Bologna, Italy

**DOCTORAL DEGREE**

PhD in Systems Medicine. 10/2015 - 01/2020

University of Milan, European School of Molecular Medicine

**RESEARCH CONTRACTS, RESEARCH FELLOWSHIP CONTRACTS, POSTDOCTORAL SCHOLARSHIPS OR SIMILAR CONTRACTS**

- 2023 – present Postdoctoral research fellowship type B  
Department of Oncology and Hemato – Oncology. Univesrity of Milan, Italy.  
Project: HE\_GC23GTEST\_01; RE-MEND. Building resilience against mental illness during endocrine-sensitive life stages
- 2020 – present Scientific Advisor for the Neurogenomics Research Center at Human Technopole
- 2021 – 2023 Postdoctoral research fellowship type B  
Department of Oncology and Hemato – Oncology. Univesrity of Milan, Italy.  
Project: CCE\_FON\_CRC\_BIOLORG\_GTESTA; Human Organoid Models Integrative Center
- 2020 – 2021 Postdoctoral research fellowship type B  
Department of Oncology and Hemato – Oncology. Univesrity of Milan, Italy.  
Project: Horizon 2020; H20\_RIA19GTEST\_01; ENDpoiNTs. Novel Testing Strategies for Endocrine Disruptors in the Context of Developmental NeuroToxicity

- 2015 – 2020     PhD student fellowship, School of European Molecular Medicine (SEMM)  
Thesis title: A unifying framework to study the genetic and environmental factors shaping human brain development  
Main Project: EDCMixRisk. <http://edcmixrisk.ki.se/>  
Supervisor: Prof. Giuseppe Testa, European Institute of Oncology, University of Milan. Internal co-supervisor: Francesco Nicassio, Center of Genomic Science, Istituto Italiano di Tecnologia. External co-supervisor: Nikolaus Rajewsky, Max-Delbrück-Center for Molecular Medicine
- 2008 – 2015     Medical school student, Emergency Department residency.  
Laboratory of Prof. Vincenzo Stanghellini. Department of Medical and Surgical Sciences, University of Bologna, Italy  
Thesis title: Acute abdominal pain in the emergency department of a university hospital in Italy

#### TEACHING ACTIVITIES AT ITALIAN OR FOREIGN UNIVERSITIES

2020/21 – 2021/22 - 2022/23 - 2023/24

University of Milan. Assistant in the courses of Prof. Giuseppe Testa:

Pathogenetic bases of neurological and psychiatric disorders. CFU: 1. Lectures: 7 ore

SSD BIO/11 MED/13 MED/25 MED/26

Genomics and epigenomics. CFU: 1. Lectures: 7 ore

SSD BIO/11 MED/13 MED/25 MED/26

Neurogenomics and brain disease modelling. CFU: 3. Lectures: 24 hours

SSD BIO/11

March 2024

Attività didattica laboratoriale, all'interno del percorso di Alta formazione PHARMATECH ACADEMY, "Bioinformatic analysis of single cell omics data: integration of clinical and molecular data".

10 hours module.

UNIVERSITA' DEGLI STUDI DI NAPOLI FEDERICO II. "National Center for Gene Therapy and Drugs based on RNA Technology"

October 2023

Studio dell'impatto genetico e ambientale sui tratti del neurosviluppo attraverso organoidi cerebrali Guest teacher at "IX Corso di formazione permanente in Neuroscienze cognitive dello sviluppo" 1 hour module Fondazione Mariani, Milan

October 2022

BRAINOMICS. Computational approaches to single-cell multi-omics in neuroscience. Human Technopole. 6 hours module

<https://humantechnopole.it/en/trainings/brainomics/>

May 2018

Experimental epidemiology: neurodevelopmental epigenetics across human genetic variability

Guest teacher at the "Corso di formazione avanzata: Epigenetica dall'eredità transgenerazionale alla malattia" Collegio Ghislieri, Pavia, Italy

Basic data analysis with R for clinicians. Online open course:

<https://github.com/Crockol/ClinicalDataAnalysis>

## **STUDENT TUTORING**

### **PhD students**

- 2023 – present    Co-supervisor. Manuel Lessi.  
PhD student in the European School of Molecular Medicine (SEMM)  
Thesis project: Building resilience against mental illness during endocrine-sensitive life stages
- 2023 – present    Co-supervisor. Gaja Matassa.  
PhD student in the European School of Molecular Medicine (SEMM)  
Thesis project: Building resilience against mental illness during endocrine-sensitive life stages
- 2022 – present    Co-supervisor. Alessia Valenti.  
PhD student in the European School of Molecular Medicine (SEMM)  
Thesis project: The pandemic within: tackling brain vulnerability in COVID-19 at high resolution
- 2022 – present    Co-supervisor. Mazen Khaddour.  
PhD student in the European School of Molecular Medicine (SEMM)  
Thesis project: High throughput brain organoid longitudinal profiling from the Italian cohort of neurodevelopmental disorders
- 2021 – present    Co-supervisor. Sarah Stucchi.  
PhD student in the European School of Molecular Medicine (SEMM)  
Thesis project: Neurodevelopmental and intergenerational impact of endocrine-disrupting chemicals
- 2019 – 2024      Co-supervisor. Marco Tullio Rigoli.  
PhD student in the European School of Molecular Medicine (SEMM)  
Thesis project: Novel screening platform to investigate neurodevelopment impact of endocrine disruptors

### **Master students**

- 2023 – present    Co-supervisor. Michal Kubacki  
Master degree thesis in Bioinformatic for Computational Genomics, University of Milan.  
Thesis project: Computational scoring of hormonal dysregulation in neurodevelopmental disorders
- 2022 – 2024      Co-supervisor. Benedetta Muda.  
Master degree thesis in Medical Biotechnology and Molecular Medicine, University of Milan.  
Thesis project: Human organoids modelling of neurodevelopmental and intergenerational impact of endocrine-disrupting chemicals
- 2022 – 2024      Co-supervisor. Davide Bulgheresi.  
Master degree thesis in Medical Biotechnology and Molecular Medicine, University of Milan.  
Thesis project: Charting the molecular and cellular footprints of endocrine disruptors on human neurodevelopment through 3D cortical brain organoids

- 2021 – 2022 Co-supervisor. Alessia Valenti  
Master degree thesis in Bioinformatic for Computational Genomics, University of Milan.  
Thesis project: Single cell and spatial transcriptomics of human brain organoids: experimental data analysis and computational modelling  
Graduation grade: 110/110 cum laude
- 2020 – 2021 Co-supervisor. Martina Ciprietti.  
Master degree thesis in Biotechnologies of human reproduction, University of Siena.  
Thesis title: The impact of endocrine-disrupting chemicals on germ cells and neurodevelopment  
Graduation grade: 110/110 cum laude
- 2018 – 2019 Co-supervisor. Marco Tullio Rigoli.  
Master degree thesis in Pharmaceutical Biotechnology, University of Milan.  
Thesis title: Multiplexing brain organoids to study the neurodevelopmental impact of EDCs across genetic backgrounds  
Graduation grade: 110/110 cum laude

#### ATTESTED TRAINING OR RESEARCH ACTIVITIES AT QUALIFIED ITALIAN OR FOREIGN INSTITUTIONS

FENS CAJAL Advanced Techniques for Synapse Biology. October 2019, Bordeaux Neurocampus, France;  
Analysis of single cell RNA-seq data. February 2018, Physalia Course. Freie University, Berlin, Germany;  
Chromatin and environment. August 2016, EMBO Summer School. Spetses, Greece;  
The first systems biology and systems medicine summer school. September 2014 SysBio. Como, Italy;  
School of European Molecular Medicine. Doctoral courses: Molecular oncology; Bioinformatics + Statistics; Biochemistry; Genomics and Proteomics; Imaging and Imaging Advanced; History of biomedicine; Logic and Network biology; Scientific writing; Cancer genetics.

- 2020 – present Postdoctoral research activity  
Laboratory of High Definition Disease Modelling. Stem Cell and Organoids Epigenetics. Prof. Giuseppe Testa. Milan, Italy  
Main Project: Human neurodevelopmental models to study the molecular effects and gene-vs-environment interactions of hormones and endocrine disruptions  
Scientific Advisor for the Neurogenomics Research Center at Human Technopole. Co-supervision of laboratory set up and workflows implementation. Steering board member of the Automated Stem Cells and Organoids Facility and the Flow cytometry Applications Resource (FLARE) Scientific Support Unit.
- 2015 – 2020 PhD student research activity  
Laboratory of High Definition Disease Modelling. Stem Cell and Organoids Epigenetics. Prof. Giuseppe Testa. Milan, Italy  
Main Project: EDCMixRisk. Investigating the effects of mixtures of endocrine disruptive chemicals on children by developing methods for risk assessment

2008 – 2015    Medical school research activity  
Laboratory of Prof. Vincenzo Stanghellini. Department of Medical and Surgical Sciences, University of Bologna, Italy  
Main project: Acute abdominal pain in the emergency department of a university hospital in Italy

## **IMPLEMENTATION OF PROJECTS**

In the lab of Prof. Giuseppe Testa I have contributed to the writing of the proposals and/or experimental, computational work, co-supervision of the following research projects:

2014-2019: European Research Council Consolidator Grant "Modeling Disease through Cell Reprogramming: a Translational Approach to the Pathogenesis of Syndromes Caused by Symmetrical Gene Dosage Imbalances (DISEASEAVATARS)"

2015-2020: Horizon 2020 Project: Integrating Epidemiology and Experimental Biology to Improve Risk Assessment of Exposure to Mixtures of Endocrine Disruptive Compounds (EDC-MixRisk).

2019-2022: Fondazione Telethon: "Functional dissection of the molecular underpinnings of 7q11.23 syndromes: bridging pathogenic insight to drug discovery at single cell resolution"

2019-2020: Horizon 2020 FET Flagship Initiative LifeTime. Coordinate Support Action: "Revolutionizing Healthcare by Tracking and Understanding Human Cells during Disease (LifeTime)"

2019-2024: Horizon European Project: Novel Testing Strategies for Endocrine Disruptors in the Context of Developmental NeuroToxicity (ENDpoints). <https://endpoints.eu/>

2021-2024: HEBE (Healthy aging versus inflamm-aging: the role of physical Exercise in modulating the Biomarkers of age-associated and Environmentally determined chronic diseases). Unimi project within Grandi Sfide di Ateneo, Progetti Speciali, Piano Nazionale di Ripresa e Resilienza (PNRR)

2021-2024: IDEA (Sistema integrato di Ateneo per il monitoraggio e per il controllo delle infezioni, delle emergenze epidemiche e dell'antibioticoresistenza). Unimi project within Grandi Sfide di Ateneo, Progetti Speciali, Piano Nazionale di Ripresa e Resilienza (PNRR)

2022-2027: Horizon European Project: The Pandemic within: tackling brain vulnerability in COVID19 at high resolution (NEUROCOV). <https://neurocov.eu/>

2022-2027: Horizon European Project: Risk and Resilience in Developmental Diversity and Mental Health (R2D2-MH). <https://www.r2d2-mh.eu/>

2023-2028: Horizon European Project: Building resilience against mental illness during endocrine-sensitive life stages (Re-MEND) <https://www.helsinki.fi/en/projects/re-mend>

## **Projects awarded as Principal Investigator**

2024-2026: Joint Call for Applications Fondazione Cariplo e Fondazione Telethon 2023. "SP5 as novel mediator of CAH multi-organ pathogenesis: from functional elucidation to therapeutic repurposing"  
Funding awarded: 250 000 euro.

## SPEAKING AT NATIONAL AND INTERNATIONAL CONFERENCES AND CONVENTIONS

### CONFERENCE PRESENTATIONS

“Acute abdominal pain in the Emergency Department of a university hospital in Italy”

Oral presentation, SIMEU Congress, Turin, Italy, 2014

Poster, GREAT Network Congress, Rome, Italy, 2014

“Human neurodevelopmental systems to study the molecular effects of endocrine disruptions”

Poster, ABCD Annual PhD meeting, Salerno, Italy, 2016

Poster, Chromatin and environment Summer School, Spetses, Greece, 2016

“From Cohorts to Molecules: Adverse Impacts of Endocrine Disrupting Mixtures”

Oral presentation, ENABLE 1st European PhD and Postdoc Symposium, Barcelona, Spain, 2017

Poster, EMBO conf. Gene regulatory mechanisms in neural fate decisions, Alicante, Spain, 2017

Flash talk, EMBO Symposium Organoids: Modelling Organ Development and Disease in 3D, Heidelberg, 2018

Poster, 10th International Meeting STEROIDS and NERVOUS SYSTEM, Turin, Italy, 2019

Oral presentation, 17th meeting of the International Neurotoxicology Association. Dusseldorf, Germany, 2019

“Frontiers within. Avataring human lineages for transgenerational epigenomics”

Selected invitation for the Spineto Epigenetics Meeting 22nd-25th March 2018

“Multiplexing induced pluripotent stem cells into chimeric brain organoids to study neurodevelopment”

Oral presentation, Stem cell methods and cell phenotyping approaches for study of neurodevelopmental disorders, MINDDS COST Action Meeting Malta, 2019

Poster, LifeTime Launch Event. Berlin, Germany, 2019

“The transforming impact of human brain organoids for regulatory toxicology: a systematic analysis across mixtures, genetic backgrounds and exposures”

Oral presentation, EDC-MixRisk Conference at European Commission, Brussels, March 2019

Oral presentation, Endpoints Annual Meeting. Paris, February 2020

“De Humani Corporis Fabrica: organoid-based deconvolution of neuropsychiatric disorders at single cell resolution”

Oral presentation as **invited speaker**, 1st Stem Cells and Brain Organoids Training Course and Symposium, University of Lausanne, Switzerland, 2019

Oral presentation, 19a Giornata di Studio sulle Cellule Staminali: in vivo single cell analysis dalla tecnologia alla biologia e medicina, Milan, 2019

“Capturing susceptible windows of transcriptional dysregulation during human cortical development”

Poster, Single Cell Genomics Conference in Djurönäset, Stockholm, Sweden, 2019

“Brain organoids modelling of genetic and environmental impact on neurodevelopmental traits”

Oral Presentation as **invited speaker**, Sex, Gender and Epigenetics: From Molecule to Bedside, Italy, Florence, 2022

Oral Presentation, EpiSyStem: Stem Cell Epigenetics International Conference, Italy, Milan, 2022

Oral Presentation as **invited speaker**, European Congress of Endocrinology, Istanbul, Turkey, 2023

“Infiammazione inquinamento e psicopatologie”

Oral Presentation as **invited speaker**, IV Congresso Internazionale Il Neo-Funzionalismo XX  
Convegno Nazionale, Scuola Europea di formazione in Psicoterapia Funzionale. Naples, Italy, 2023

“Multiplexing cortical brain organoids for the longitudinal dissection of developmental traits at single cell resolution”

Oral Presentation as **invited speaker**, Developmental Diversity in a Dish Seminar Series. March 2024. Link to recordings: <https://www.youtube.com/playlist?list=PLbeFhDgIkXxd-3CLdfuWvGguZZOveIso4>

“High Definition Disease Modelling: Stem Cell and Organoid Epigenetics”

Oral Presentation as **invited speaker**, Annual Meeting of the Hellenic Society of Gene Therapy and Regenerative Medicine. Thessaloniki, Greece, 2024

“From brain organoids modelling to in vitro epidemiology to study endocrine impact on human neurodevelopment”

Oral Presentation as **invited speaker**, Leibniz-Research Network “Stem Cells and Organoids”. Düsseldorf, Germany, 2024

## ORGANISATION OF SCIENTIFIC MEETINGS

Chief coordinator of the local organising committee for the Enable Scientific Symposium:

“EXPLORING LIFE DYNAMICS: In and out of equilibrium” Milan, 2021, Italy.

Youtube video: [https://www.youtube.com/watch?v=BArPe\\_Is5Kc](https://www.youtube.com/watch?v=BArPe_Is5Kc)

## OUTREACH ACTIVITY

Divulgative video for illustrating patient-derived experimental disease models. 2020

Youtube video: [https://www.youtube.com/watch?v=xEChL\\_xt1aU](https://www.youtube.com/watch?v=xEChL_xt1aU)

Divulgative video for illustrating the main messages of the Science paper: More chemicals, fewer words. 2022

Youtube video: <https://www.youtube.com/watch?v=bJh9c-pyeYo>

Podcast on brain organoids for Darwin Radio

<https://www.radio24.ilsole24ore.com/podcast-originali/darwin/podcast/organoidi-cerebrali--microsatelliti-italiani-160528-2419319459719171>

Video on the research we carry out in the Neurogenomics Research Centre, Human Technophole:

<https://www.raiplay.it/video/2022/06/Via-delle-Storie-3d410b5e-13e5-474b-b959-0aec57b1957e.html>

## NATIONAL AND INTERNATIONAL AWARDS AND ACCOLADES FOR RESEARCH ACTIVITY

October 2017: travel grant and short talk award for the 1st European PhD and Postdoc Symposium, ENABLE, Barcelona, Spain.

September 2018: short talk award for the EMBO|EMBL Symposium: Organoids: Modelling Organ Development and Disease in 3D Culture, Heidelberg, Germany.

October-November 2019: selected for the Cajal Advanced Techniques for Synapse Biology course 2019, CAJAL Advanced Neuroscience Training Programme, at the Bordeaux School of Neuroscience in Bordeaux, France.

February 2022: dedicated perspective article on Science about our manuscript on neurodevelopmental impact of endocrine disruptors (Caporale et al., 2022): Liew, Z., & Guo, P. (2022). Human health effects of chemical mixtures. *Science*, 375(6582), 720–721.

May 2022: dedicated article about our manuscript on neurodevelopmental impact of endocrine disruptors (Caporale et al., 2022) on the “Science for Environment Policy” issue 579, 11<sup>th</sup> May, by European Commission DG. Environment News Alert Service, edited by SCU, The University of the West of England, Bristol.



## **SCIENTIFIC PRODUCTION**

h-index: 8; total citations: 700; (Google scholar – 30/05/2024)

## **SCIENTIFIC PUBLICATIONS**

### **Research articles:**

**Caporale**, N., Leemans, M., Birgersson, L., Germain, P.-L., Cheroni, C., Borbély, G., Engdahl, E., Lindh, C., Bressan, R. B., Cavallo, F., Chorev, N. E., D'Agostino, G. A., Pollard, S. M., Rigoli, M. T., Tenderini, E., Tobon, A. L., Trattaro, S., Troglia, F., Zanella, M., ... Testa, G. (2022). From cohorts to molecules: Adverse impacts of endocrine disrupting mixtures. **Science**, 375(6582), eabe8244.

#### **Co-first author**

Impact Factor: 56.9

Angioni, R., Bonfanti, M., **Caporale**, N., Sánchez-Rodríguez, R., Munari, F., Savino, A., Pasqualato, S., Buratto, D., Pagani, I., Bertoldi, N., Zanon, C., Ferrari, P., Ricciardelli, E., Putaggio, C., Ghezzi, S., Elli, F., Rotta, L., Scardua, A., Weber, J., ... Testa, G. (2023). RAGE engagement by SARS-CoV-2 enables monocyte infection and underlies COVID-19 severity. **Cell Reports. Medicine**, 4(11), 101266.

#### **Co-first author**

Impact Factor: 14.3

Shahar Bracha, Hannah J. Johnson, Nicole A. Prankevicius, Francesca Catto, Athena E. Economides, Sergey Litvinov, ... Nicolò **Caporale**, Giuseppe Testa, Adriano Aguzzi, Anita A. Koshy, Lilach Sheiner, Oded Rechavi. (2024) Engineering a Brain Parasite for Intracellular Delivery of Proteins to the Central Nervous System. Accepted **Nature Microbiology**

#### **Senior author**

Impact Factor: 28.3

Mihailovich, M., Germain, P.-L., Shyti, R., Pozzi, D., Noberini, R., Liu, Y., Aprile, D., Tenderini, E., Troglia, F., Trattaro, S., Fabris, S., Ciptasari, U., Rigoli, M. T., **Caporale**, N., D'Agostino, G., Vitriolo, A., Capocefalo, D., Skaros, A., Franchini, A., ... Testa, G. (2024). Multi-scale modeling uncovers 7q11.23 copy number variation-dependent alterations in ribosomal biogenesis, neuronal maturation and excitability. Accepted **Journal of Clinical Investigation**

Impact Factor: 15.9

López-Tobón, A., Shyti, R., Villa, C. E., Cheroni, C., Fuentes-Bravo, P., Trattaro, S., **Caporale**, N., Troglia, F., Tenderini, E., Mihailovich, M., Skaros, A., Gibson, W. T., Cuomo, A., Bonaldi, T., Mercurio, C., Varasi, M., Osborne, L., & Testa, G. (2023). GTF2I dosage regulates neuronal differentiation and social behavior in 7q11.23 neurodevelopmental disorders. **Science Advances**, 9(48), eadh2726.

Impact Factor: 13.6

Cheroni, C., Trattaro, S., **Caporale**, N., López-Tobón, A., Tenderini, E., Sebastiani, S., Troglia, F., Gabriele, M., Bressan, R. B., Pollard, S. M., Gibson, W. T., & Testa, G. (2022). Benchmarking brain organoid recapitulation of fetal corticogenesis. **Translational Psychiatry**, 12(1), 520.

Impact Factor: 6.8

López-Tobón, A., Villa, C. E., Cheroni, C., Trattaro, S., **Caporale**, N., Conforti, P., Iennaco, R., Lachgar, M., Rigoli, M. T., Marcó de la Cruz, B., Lo Riso, P., Tenderini, E., Troglio, F., De Simone, M., Liste-Noya, I., Macino, G., Pagani, M., Cattaneo, E., & Testa, G. (2019). Human Cortical Organoids Expose a Differential Function of GSK3 on Cortical Neurogenesis. **Stem Cell Reports**, 13(5), 847–861.

Impact Factor: 5.9

**Caporale**, N., Morselli-Labate, A. M., Nardi, E., Cogliandro, R., Cavazza, M., & Stanghellini, V. (2016). Acute abdominal pain in the emergency department of a university hospital in Italy. **United European Gastroenterology Journal**, 4(2), 297–304.

**First author**

Impact factor: 6.04

### **Preprint - Research articles:**

**Caporale**, N., Castaldi, D., Rigoli, M. T., Cheroni, C., Trattaro, S., Valenti, A., Bonfanti, M., Stucchi, S., Tobon, A. L., Ricca, D., Lessi, M., Pezzali, M., Vitriolo, A., Schmid, K. T., Heinig, M., Theis, F. J., Villa, C. E., & Testa, G. (2023). Multiplexing cortical brain organoids for the longitudinal dissection of developmental traits at single cell resolution. In **bioRxiv** (p. 2023.08.21.553507). <https://doi.org/10.1101/2023.08.21.553507>

**Co-first author; Senior author**

In revision, **Nature Methods**. Impact factor: 48

### **Review articles:**

Cheroni, C., **Caporale**, N., & Testa, G. (2020). Autism spectrum disorder at the crossroad between genes and environment: contributions, convergences, and interactions in ASD developmental pathophysiology. **Molecular Autism**, 11(1), 69.

**Co-first author; Co-corresponding author**

Impact factor: 6.2

Drakulic, D., Djurovic, S., Syed, Y. A., Trattaro, S., **Caporale**, N., Falk, A., Ofir, R., Heine, V. M., Chawner, S. J. R. A., Rodriguez-Moreno, A., van den Bree, M. B. M., Testa, G., Petrakis, S., & Harwood, A. J. (2020). Copy number variants (CNVs): a powerful tool for iPSC-based modelling of ASD. **Molecular Autism**, 11(1), 42.

Impact factor: 6.2

Marangon, D., **Caporale**, N., Boccazzi, M., Abbracchio, M. P., Testa, G., & Lecca, D. (2021). Novel in vitro Experimental Approaches to Study Myelination and Remyelination in the Central Nervous System. **Frontiers in Cellular Neuroscience**, 15, 748849.

Impact factor: 5.3

### **News & Views:**

**Caporale**, N., & Testa, G. (2020). COVID-19 lessons from the dish: Dissecting CNS manifestations through brain organoids. **The EMBO Journal**, e107213.

**Co-corresponding author**

Impact factor: 11.4

## Perspective article:

Rajewsky, N., Almouzni, G., Gorski, S. A., Aerts, S., Amit, I., Bertero, M. G., Bock, C., Bredenoord, A. L., Cavalli, G., Chiocca, S., Clevers, H., De Strooper, B., Eggert, A., Ellenberg, J., Fernández, X. M., Figlerowicz, M., Gasser, S. M., Hubner, N., Kjems, J., ... LifeTime Community Working Groups. (2020). LifeTime and improving European healthcare through cell-based interceptive medicine. **Nature**, 587(7834), 377–386.

Impact factor: 64.8

## BOOK CHAPTERS

**Caporale, N., Stucchi, S., Cheroni, C., & Testa, G. (2023).** Chapter 23 - Brain organoids modeling of genetic and environmental impact on neurodevelopmental traits. In M. J. Legato, D. Feldberg, & M. Glezerman (Eds.), **Sex, Gender, and Epigenetics** (pp. 281–290). Academic Press.

### Co-first author

Lopez-Tobon, A., **Caporale, N.**, Trattaro, S., & Testa, G. (2020). Chapter 11 - Three-dimensional models of human brain development. In E. Meshorer & G. Testa (Eds.), **Stem Cell Epigenetics** (Vol. 17, pp. 257–278). Academic Press.

**Caporale, N., & Testa, G. (2019).** At the Intersection of Epigenetics and Regeneration: An Analysis of the Experimental Outlook of Organoid Technology. **Epigenetics and Regeneration**. <https://www.sciencedirect.com/science/article/pii/B9780128148792000170>

### Co-corresponding author

## PEER REVIEW ACTIVITIES

Reviewer for the following peer-reviewed journals and funding agency:

Cell Stem Cells, 2017.

Neuron, 2018.

Translational Psychiatry, 2020.

Stem Cell Report, 2020.

Science, 2021

PNAS, 2022

eLife, 2022

Nature, 2022, 2023

Frontier in Neuroscience, 2023

Cell Reports Medicine, 2023

French National Research Agency. Collaborative Research Projects, 2022

Science Advances 2024

Date

30/05/2024

Place

Milan