



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

[Marco Tullio Rigoli]

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Rigoli
Nome	Marco Tullio
Data Di Nascita	20 Gennaio 1994

OCCUPAZIONE ATTUALE

Incarico	Struttura
Dottorando	Società europea di medicina molecolare (SEMM)/ Università degli Studi di Milano "La Statale"

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Biotechnologie del farmaco	Università degli studi di Milano	2019
Specializzazione			
Dottorato Di Ricerca	Medicina dei sistemi	SEMM/Unimi	Attualmente in corso (data prevista dicembre 2023)
Master			
Diploma Di Specializzazione Medica			
Diploma Di Specializzazione Europea			
Altro			

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città

LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
Inglese	C1



PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2019	Best master student poster at the 10th international meeting "steroids and nervous system"
2020	Awarded a 2-year AIRC fellowship to study cancer genetic dependencies in glioblastoma

ATTIVITÀ DI FORMAZIONE O DI RICERCA

During my master thesis internship, I worked on establishing reliable approaches to multiplex different genotypes in human pluripotent stem cells (hiPSC)-derived cortical brain organoids (CBOs) in order to reduce the burden of batch and technical variability, as well as allowing the experimental tractability of high number of genotypes to study the inter-individual susceptibility to environmental pollutants. During my PhD research activity, as a member of the H2020-funded ENDpoiNTs consortium, I focused on studying the impact of environmental, man-made endocrine disrupting compounds (EDCs) on human neurodevelopment. In details, I pursued three different approaches to address multiple unmet needs of the field:

- i) to understand the key molecular events underlying EDC-induced neurotoxicity I leveraged human pluripotent stem cells-derived cortical brain organoids as proxy of fetal brain cortex development. At first, I chronically exposed such organoids to reference hormonal agonists and antagonists to generate a robust atlas of the transcriptomic alterations induced by hormonal modulation in CBOs. Then, a new batch of CBOs was similarly exposed to multiple doses of man-made putative or known EDCs such as phthalates, bisphenols and pesticides.
- ii) To provide regulatory agencies new tools for more accurate testing of new chemical entities, I generated an hiPSC-based hormonal reporter system which carries the ability to predict activation of up to 4 hormonal pathways in parallel and virtually in every cell type of the organism (upon proper differentiation).
- iii) To allow the study of interindividual sensitivity towards environmental toxicants, I'm finalizing the development of multiplexing approaches which I previously started during my master thesis' internship

Prominent skills I developed during my research career:

hiPSC maintenance and quality check (including cell banking procedures)

Cortical brain organoids handling and differentiation

Design of transgenic cassettes

Crispr/Cas9 genome editing

Use of Lentiviral vectors

Cytotoxicity/ viability assays

Bulk and single cell RNA sequencing processing

Tissue immunofluorescence analysis

ATTIVITÀ PROGETTUALE

Anno	Progetto

TITOLARITÀ DI BREVETTI

Brevetto



CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
16-20/02/2019	10 th international meeting on steroids and nervous system	Torino (Italia)
20-24/10/2020	EMBL Symposium: Organoids: Modelling Organ Development and Disease in 3D Culture	Virtual symposium
19-22/02/2022	11 th international meeting on steroids and nervous system	Virtual
4-6/07/2022	Episystem: Stem Cells epigenetics international conference	Milan (Italia)
6-7/02/2020	ENDpoiNTs consortium annual meeting	Paris (France)
20-21/09/2021	ENDpoiNTs consortium annual meeting	virtual
20-21/01/2022	EURION cluster meeting	virtual
12-13/06/2022	ENDpoiNTs consortium annual meeting	Milan (Italy)
14-16/09/2022	ENDpoiNTs-ERGO-ATHENA workshop	Madrid (Spain)

PUBBLICAZIONI

Libri
[titolo, città, editore, anno...]
[titolo, città, editore, anno...]
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Articoli su riviste
Human cortical organoids expose a differential function of GSK3 on Cortical Neurogenesis , Stem Cell Reports, 12/11/2019, vol. 13 issue 5, DOI: 10.1016/j.stemcr.2019.09.005
From cohorts to molecules: Adverse impacts of endocrine disrupting mixtures , Science, 18/02/2022, vol. 375 issue 6582, DOI: 10.1126/science.abe8244
7q11.23 CNV alters protein synthesis and REST-mediated neuronal intrinsic excitability , currently on BiorXive, DOI: 10.1101/2022.10.10.511483
[titolo articolo, rivista, città, editore, anno...]



Atti di convegni
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ALTRE INFORMAZIONI

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

Luogo e data: Ferriere, 04/01/2023

FIRMA