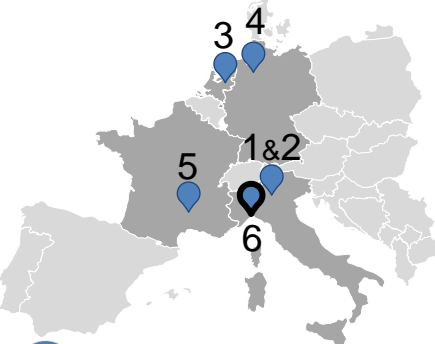




# Amos FUMAGALLI, Ph.D SCIENTIST

## EXPERIENCES



**09/2012 - 06/2013**  
1 Research Intern,  
University of Milan

**05/2013 - 06/2013**  
2 Scientific Consultant  
Ager s.r.l., Milan

**09/2013 - 12/2014**  
3 Research Intern  
IRAS, Utrecht University

**12/2014 - 07/2015**  
4 Research Intern  
Westfälische Wilhelms-Universität

**10/2015 - 06/2019**  
5 Early Stage Researcher  
IGF, University of Montpellier

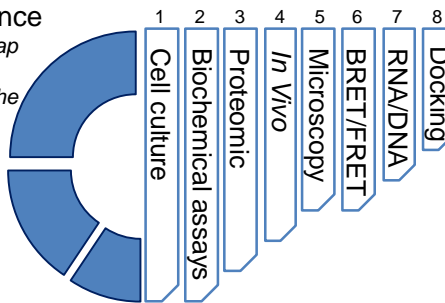
**10/2019 - Now**  
6 MSCA Researcher  
IIT, Italian Institute of Technology

## LAB SKILLS

Neuroscience  
*Astrocytes, gap junctions and disorders of the CNS*

GPCRs & Cancer  
*Chemokine signalling*

Toxicology



1. Cell lines (HEK-293, HepG2, HaCat, CHO, COS). Primary cultures (astrocytes, neurons).
2. WB, ELISA, biotinylation, scrape loading, microinjection, Co-IP, IF, IHC, data analysis
3. Sample preparation (reduction, alkylation, digestion), data analysis (MaxQuant and Perseus)
4. Behavioural paradigms and in Utero Electroporation
5. Epifluorescence, confocal, co-localisation analysis (Imaris)
6. Signaling assays, protein-protein interaction, internalisation assay, second messenger assay
7. DNA recombinant approaches (cloning, PCR). RT-PCR. Virus production
8. Docking simulation using MOE

## PERSONAL SKILLS



Perseverance



Time management



Adaptability



Initiative



Written communication



Active listening

## PUBLICATIONS

1. Fumagalli A. et al. "The atypical chemokine receptor 3 interacts with Connexin 43 inhibiting astrocytic gap junctional intercellular communication". *Nature Comm.*, 2020.
2. Pinto, Morelli, Rastogi, Savardi, Fumagalli A. "Rescuing Over-activated Microglia Restores Cognitive Performance in Juvenile Animals of the Dp(16) Mouse Model of Down Syndrome", *Neuron*, 2020.
3. Fumagalli A. et al. "CXCR4/ACKR3 phosphorylation and recruitment of interacting proteins: key mechanisms regulating their functional status". *Molecular Pharmacology*, 2019.
4. Neves N., Fumagalli A. et al. "The role of ACKR3 in breast, lung and brain cancer". *Molecular Pharmacology*, 2019.
5. Galli C.L., Sensi C., Fumagalli A. et al. "A computational approach to evaluate the androgenic affinity of iprodione, procymidone, vinclozolin and their metabolites". *PlosONE*, 2014.

## AWARDS

- 2021 Young Scientist Award University of Montpellier
- 2019 Marie Sklodowska-Curie Individual fellowship Two year personal scholarship for my Post Doc project at IIT financed by the Marie Sklodowska-Curie action
- 2015 Marie Sklodowska-Curie fellowship PhD financed by the Marie Sklodowska-Curie action for innovative training network
- 2014 Honorous programme & Scholarship U>Select Utrecht University
- Scholarship Erasmus+ Scholarship
- 2013 Scholarship SITOX italian award for research

## COMMUNICATION

- Big audience
- Meeting
- Divulgation

## EDUCATION

- 2018 PhD in Biology University of Montpellier, Montpellier
- 2015 Master in Toxicology Obtained *Cum laude* at Utrecht University, Utrecht
- 2013 Bachelor in Toxicology Obtained *Cum laude* at University of Milan, Milan

## Summary of hard and soft skills acquired in each projec

Period	Job title	Country	Project	Role	Scientific skills	Managerial skills	Outputs	Money
2010-Now	MSCA researcher	Italy	Role of Negr1 in psychiatric and neurodevelopmental disorders.	Manager/Scientist of several projects and supervision of a colleague (PostDoc)	<ul style="list-style-type: none"> <li>In utero electroporation</li> <li>Virus production,</li> <li>Neuronal primary cultures</li> <li>Behavioral tests</li> <li>RT-PCR</li> </ul>	<ul style="list-style-type: none"> <li>Write successful grants</li> <li>Manage &amp; attract budgets</li> <li>Leadership skills</li> <li>Manage animal colonies</li> <li>Write animal licenses</li> <li>Manage several projects simultaneously</li> </ul>	1 Article 1 Grant	190.000 €
2015-2019	Early Stage Researcher/Postdoctoral	France	Functional proteomics of CXCR4 and ACKR3-associated signalling networks	In charge of a project and supervision of technical staff	<ul style="list-style-type: none"> <li>Recombinant DNA</li> <li>In vitro signaling assays</li> <li>Proteomic</li> <li>Astrocytes primary cultures</li> <li>Biochemistry</li> <li>Microscopy (confocal)</li> <li>FRET ligand binding assay</li> </ul>	<ul style="list-style-type: none"> <li>Look for and start collaborations</li> <li>Write scientific articles</li> <li>Start and conclude a project</li> <li>Revision of articles</li> <li>Present my results (poster, or oral)</li> <li>Write periodic progress reports</li> <li>Manage staff</li> </ul>	3 Articles 1 Prize	500 €
2014-2015	Research intern	Germany	Identification of Ochratoxin A metabolites	Supervised for a independently carry on project	<ul style="list-style-type: none"> <li>Microsome preparation</li> <li>HPLC-HRMS</li> <li>Click chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Exit the comfort zone</li> <li>Adapt to the results</li> </ul>	2 Grants	7500€
2013-2014	Research Intern	Netherlands	Cadmium cell culture and Traditional Chinese medicine	Supervised for a independently carry on project	<ul style="list-style-type: none"> <li>Cell lines culture</li> <li>Cell-viability assays</li> <li>ELISA</li> </ul>	<ul style="list-style-type: none"> <li>Join a new lab and culture</li> <li>Keep updated the lab journal</li> </ul>		
2012-2013	Research intern	Italy	Pesticides' metabolites as endocrine disruptors	Supervised for carry on a project	<ul style="list-style-type: none"> <li>Docking (MOE)</li> <li>VEGA &amp; Toxtree softwares</li> <li>Risk assessment</li> </ul>	<ul style="list-style-type: none"> <li>Be proactive</li> <li>Be rigorous</li> <li>Respect deadlines</li> <li>Be independent</li> </ul>	1 Prize 1 Article	2500€