

## ● WORK EXPERIENCE

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01/11/2017 – CURRENT – Ferrara, Italy

### **PHD STUDENT – University of Ferrara**

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Research Assistant at the Department of Medical Sciences. Under the supervision of Prof. Fernanda Martini and Prof. Mauro Tognon. Project: Role of the Human papillomavirus in oropharyngeal squamous cell carcinoma onset and progression. Responsibilities: Manuscript writing and technical documents drafting, data analysis through SigmaPlot and R, sequencing analysis for methylation status, molecular biology techniques such as: ddPCR, qPCR, multiplex PCR, ELISA testing. Cellular biology techniques such as: cell viability and proliferation assays, drug treatment of cancer cell lines, tissue culture of human primary cells and cell isolation.

08/2020 – 11/2020 – Zurich, Switzerland

### **VISITOR PHD STUDENT – University Hospital of Zurich**

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Visitor PhD student at the Department of Thoracic Surgery, Laboratory of Molecular Oncology. University Hospital of Zurich, Switzerland. Under the supervision of Prof. Emanuela Felley-Bosco. Project: RNA editing by ADAR in malignant pleural mesothelioma.

Responsibilities: Spheroid culturing, cell viability and proliferation assays on murine and human mesothelioma cell lines. Nucleic acid and protein extraction for qPCR and Western Blot analysis. Colony Formation Unit assays.

01/08/2017 – 31/10/2017 – Ferrara, Italy

### **RESEARCH FELLOW – University of Ferrara**

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Research Assistant at the Department of Morphology, Surgery and Experimental Medicine, Section of Pathology, Oncology and Experimental Biology. Under the supervision of Prof. Fernanda Martini and Prof. Mauro Tognon. Project: Role of the Human papillomavirus in the onset and progression of cervical cancer. Responsibilities: Protocol optimization, and drafting of technical documents, quality controls such as Mycoplasma testing on cell cultures. Experimental procedures such as: end-point PCR, qPCR, nucleic acid extraction and protein extraction, western blot. Data analysis through R programming, SigmaPlot, GraphPad and CFX Manager.

01/07/2014 – 25/04/2017 – New Jersey, United States

### **RESEARCH ASSISTANT – Hackensack University Medical Center**

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Research Assistant. Hackensack University Medical Center. Hackensack, New Jersey, USA. Under the supervision of PI. Stephen K. Suh. Project: Diagnostics and evaluation of potential prognostic biomarkers in Mantle Cell Lymphoma. Experimental procedures such as: Cell and tissue culture of immortalized human cell lines, primary human B-cells (using Rho Kinase inhibitor and feeder layers) and murine fibroblasts, Mycoplasma detection test on cell cultures, immunocytochemistry, nucleic acid extraction from cell lines, PBMC's and FFPE (RNA), q-PCR analysis, protein lysate preparation and western blot. Bioinformatics: Primer design. Other: Draft technical documents and data analysis SigmaPlot, Microsoft office and Infinicyt.

01/06/2013 – 10/12/2013 – Alcala de Henares, Madrid, Spain

### **RESEARCH ASSISTANT – INIA (National Institute of Research and Agrarian and Produce Technology)**

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Research assistant at the INIA (National Institute of Research and Agrarian and Produce Technology). Madrid, Spain. Under the supervision of PI Rosario Fite. Project: Proteomic Analysis of various sub-species of Triticum aestivum group. Responsibilities: search for duplicates in the core collection of Triticum aestivum seeds; use of the database from the CRF-INIA, preparation and extraction of samples, preparation of stock solutions, detection of glycines of Triticum aestivum, usage of acid-polyacrylamide gel electrophoresis, characterization of Aegilops and Triticum, to collect the data in the database, root fastening and staining to perform chromosome counting, field sampling from the crops and mixing detection of the cultured samples, propagating the samples from season 2013-2014

02/11/2012 – 31/01/2013 – Alcala de Henares, Madrid, Spain

### **INTERN – University of Alcala**

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Intern at the University of Alcala. Madrid, Spain. Under the supervision of Dr. Patricia Zamora Bonachela. Project: Synthesis of enzyme-modified nanoparticles using biomimetically synthesized silica. Responsibilities included: preparation of stock solutions and biomimetic synthesis of silica nanoparticles, synthesis of silica nanoparticles with encapsulated HRP,

measurement of enzymatic activity using the spectrophotometer for free and encapsulated enzymes and also at different pH.

01/11/2019 – 31/10/2020 – Ferrara, Italy

## **BIOLOGY TUTOR – University of Ferrara**

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Responsibilities: Tutoring undergrad students in biology to help them pass the Applied Biology course.

01/10/2017 – 01/09/2018 – Ferrara, Italy

## **MENTOR – University of Ferrara**

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Mentored an undergraduate student in the laboratory, teaching experimental techniques and helping with the final thesis planning and writing.

01/07/2016 – 30/10/2016 – Ferrara, Italy

## **INTERNSHIP – University of Ferrara**

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Internship at the Department of Morphology, Surgery and Experimental Medicine, Section of Pathology, Oncology and Experimental Biology. University of Ferrara. Ferrara, Italy. Under the supervision of Prof. Fernanda Martini and Prof. Mauro Tognon. Project-1: Sequence analysis of tumor suppressor genes p53 and PML in human brain tumors. Project-2: Methylation profile of serpin gene promoter in lymphocyte samples from patients with Acute Coronary Syndrome. Responsibilities: experimental procedures such as multiplex PCR, bisulfite conversion and semi-quantitative PCR analysis, gel DNA extraction and purification, sequencing analysis for methylation status. Protocol optimization.

## ● **EDUCATION AND TRAINING**

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01/11/2017 – CURRENT – Via Fossato di Mortara 70, Viale Eliporto. CUBO, Ferrara, Italy

### **PHD IN BIOMEDICAL SCIENCES AND BIOTECHNOLOGY. – University of Ferrara**

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<http://mcms.unife.it/it/ricerca-1/ambiti-di-ricerca/patologia-oncologia-e-biologia-sperimentale/biomedbiotec/students/33/luciaoton>

15/09/2007 – 15/09/2013 – Av. de León, 4A, Alcalá de Henares, Madrid, Spain

### **DEGREE IN BIOLOGICAL SCIENCES, SPECIALIZATION: MOLECULAR BIOLOGY. – University of Alcala**

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<https://www.uah.es/es/estudios/Grado-en-Biologia/>

## ● **LANGUAGE SKILLS**

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Mother tongue(s): **SPANISH**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ITALIAN</b>	C1	C1	C1	C1	C1
<b>ENGLISH</b>	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● **DIGITAL SKILLS**

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R Studio | Microsoft Office | Graphpad Prism | Sigma Plot | Image J

## ● CONFERENCES AND SEMINARS

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06/02/2019 – 07/02/2019 – Peschiera del Garda, Italy

### PhD Day, 2019

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Presentation: Biomarker research in HPV-driven HNSCCs

05/02/2020 – 06/02/2020 – Rimini, Italy

### PhD Day, 2020

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Presentation: Prognostic biomarkers in OPSCC.

## ● PRIZES AND AWARDS

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15/08/2020 – 15/11/2020

### PhD mobility 2020

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Financial contributions award for stays at foreign institutions. IUSS Ferrara. PhD mobility 2020.

## ● ABSTRACTS

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### HPV DNA status and downregulation of IRF6 and RARB genes correlate with prognosis in HNSCC patients

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Lucia Oton-Gonzalez, John Charles Rotondo, Carmen Lanzillotti, Elisa Mazzoni, Francesca Frontini, Maria Rosa Iaquina, Chiara Mazziotta, Mauro Tognon, Fernanda Martini. Human Papillomavirus DNA status together with the downregulation of IRF6 and RARB genes correlate with prognosis in head and neck cancer patients. Abstract of the XVIII AIBG Congress, 2018. Page 94.

## ● PUBLICATIONS

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### High Human Papillomavirus DNA loads in Inflammatory Middle Ear Diseases

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doi: 10.3390/pathogens9030224

<https://pubmed.ncbi.nlm.nih.gov/32197385/> – 2020

Malagutti N<sup>+</sup>, Rotondo JC<sup>+</sup>, Cerritelli L, Melchiorri C, De Mattei M, Selvatici R, Oton-Gonzalez L, Stomeo F, Mazzoli M, Borin M, Mores B, Ciorba A, Tognon MG, Pelucchi S and Martini F. *High Human Papillomavirus DNA loads in Inflammatory Middle Ear Diseases*. Pathogens. 2020. 9(3), 224. doi: 10.3390/pathogens9030224. IF=3.405

### Spontaneous abortion and Human Papillomavirus infection

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doi: 10.3390/vaccines8030473

<https://www.mdpi.com/2076-393X/8/3/473> – 2020

Rotondo JC, Tagliapietra A, Magagnoli F, Chiara Mazziotta C, Oton-Gonzalez L, Lanzillotti C, Contini C, Vesce F, Tognon M and Martini F. *Spontaneous abortion and Human Papillomavirus infection*. Vaccines. 2020. 8(3), 473. doi: 10.3390/vaccines8030473. IF=3.269

### SERPINA1 gene promoter is differentially methylated in peripheral blood mononuclear cells of prena

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doi: 10.3389/fcell.2020.550543

<https://www.frontiersin.org/articles/10.3389/fcell.2020.550543/full> – 2020

Rotondo JC#, Oton-Gonzalez L#, Selvatici R, Rizzo P, Pavasini R, Campo GC, Lanzillotti C, Mazziotta C, De Mattei M, Tognon M and Martini F. *SERPINA1 gene promoter is differentially methylated in peripheral blood mononuclear cells of pregnant women*. Front. Cell Dev. Biol. 2020. doi: 10.3389/fcell.2020.550543. IF=5.201

## **Biomarkers and novel therapeutic approaches for diffuse large B-cell lymphoma in the era of precision medicine**

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<https://pubmed.ncbi.nlm.nih.gov/33216822/> – 2020

Lodhi N, Tun M, Nagpal P, Inamdar AA, Ayoub NM, Siyam N, Oton-Gonzalez L, Gerona A, Morris D, Sandhu R, Suh KS. *Bio markers and novel therapeutic approaches for diffuse large B-cell lymphoma in the era of precision medicine*. *Oncotarget*. doi: 10.18632/oncotarget.27785. IF(2016)= 5.168

## **Simultaneous detection and viral DNA load quantification of different Human Papillomavirus types in clinical specimens by the high analytical droplet digital PCR method**

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<https://www.frontiersin.org/articles/10.3389/fmicb.2020.591452/full> – 2020

Rotondo J#, Oton-Gonzalez L#, Mazziotta C#, Lanzillotti C, laquinta MR, Tognon M and Martini F. *Simultaneous detection and viral DNA load quantification of different Human Papillomavirus types in clinical specimens by the high analytical droplet digital PCR method*. *Front. Microbiol.* 2020. doi: 10.3389/fmicb.2020.591452. IF= 4.235

## **Tissue cytokine/chemokine profile in vulvar lichen sclerosis: An observational study on keratinocyte and fibroblast cultures.**

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<https://pubmed.ncbi.nlm.nih.gov/32998835/> – 2020

Corazza M#, Oton-Gonzalez L#, Scuderi V, Rotondo JC, Lanzillotti C, Di Mauro G, Tognon M, Martini F and Borghi A. *Tissue cytokine/chemokine profile in vulvar lichen sclerosis: An observational study on keratinocyte and fibroblast cultures*. *J Dermatol Sci.* 2020. doi: 10.1016/j.jdermsci.2020.09.006, IF= 3.681

## **ddPCR assay to detect MCPyV sequences in chorionic villi from spontaneous abortion affected females**

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doi:10.1002/jcp.29213

<https://pubmed.ncbi.nlm.nih.gov/31549405/> – 2019

Tagliapietra A, Rotondo JC, Bononi I, Mazzoni E, Magagnoli F, Oton-Gonzalez L, Contini C, Vesce F, Tognon M and Martini F. *Droplet digital PCR assay to detect Merkel cell polyomavirus sequences in chorionic villi from spontaneous abortion affected females*. *J Cell Physiol.* 2019. 1-7. doi:10.1002/jcp.29213. IF= 4.522

## **Mantle cell lymphoma in the era of precision medicine-diagnosis, biomarkers and therapeutic agents**

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doi:10.18632/oncotarget.8961

<https://pubmed.ncbi.nlm.nih.gov/27119356/> – 2016

Inamdar AA, Goy A, Ayoub NM, Attia C, Oton L et al. *Mantle cell lymphoma in the era of precision medicine-diagnosis, biomarkers and therapeutic agents*. *Oncotarget.* 2016. 7(30):48692-48731. doi:10.18632/oncotarget.8961. IF= 5.168

## ● **PROFESSIONAL ASSOCIATIONS**

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01/06/2018 – CURRENT

**Member of the Italian Association of Biology and Molecular Genetics. AIBG.**

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01/02/2020 – CURRENT

**Member of the Spanish Society of Biochemistry and Molecular Biology. SEBBM.**

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05/2020 – CURRENT

**Member of the American Society of Clinical Oncology. ASCO.**

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07/2020 – CURRENT

**Member of the International Association for the Study of Lung Cancer. IASLC.**

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