

**Diego  
Chianese**

## WORK EXPERIENCE

**03/2019 – 06/2019**

### **Bachelor's degree internship**

University of Ferrara - Dr. Ilaria Lampronti

"Study of the antiproliferative and proapoptotic activity of new palladium complexes on human neoplastic intestinal cells"

Learnings:

- Counting (Burke Chamber/Coulter Counter), seeding and treatment of human Ovaric cancer cells (A2780), Colon cancer cells (HT29, LoVo, Ls174T) and Neuroblastoma cells (U251, T98G);
- Apoptosis' levels evaluation via Annexin V assay (MUSE Flow Cytometer);
- Nucleic Acids extraction and quantification;
- Semi-quantitative, quantitative and RT-PCR;
- Agarose gel electrophoresis;
- Western Blot.

**04/2021 – 03/2022 – Ferrara, Italy**

### **Master's degree internship**

University of Ferrara - Prof. Paolo Pinton

"Characterization of the expression levels of IP3R3 (inositol 1,4,5-trisphosphate receptor, type 3) in colon cancer"

Learnings:

- Ex-vivo intravital fluorescence microscopy
- Colon biopsies homogenization for the extraction of proteins and total RNA;
- Western Blot analysis
- Retro-transcription and qPCR
- Immunohistochemistry
- Blood processing through density stratification
- Handling of laboratory animals

## EDUCATION AND TRAINING

**2019 – 18/03/2022**

### **Master's Degree in Pharmaceutical Biotechnology**

University of Bologna

I.C. Genomic of diseases (12 CFU): Applied genomics (6 CFU); Molecular mechanisms of diseases (6CFU).

Pharmacotherapy of biological drugs (6 CFU).

Stem cells and organoid 3D systems (3 CFU).

Advanced immunology (3 CFU).

The International Master's Degree in Pharmaceutical Biotechnology provides high levels of theoretical knowledge, technological and experimental expertise to design, conduct and manage research and development activities in biotechnologies applied to health, for the design, characterization, production, analysis and formulation of innovative and biotechnological drugs, vaccines, diagnostic devices. The Pharmaceutical Biotechnologist can work in biotechnology and pharmacology laboratories and companies and can also cooperate, even at an administrative level, to programmes of development and surveillance of biotechnologies applied to human health, with a professional attention to the technical and juridical implications.

#### INTERNSHIP

Relator: Prof. Anna Maria Porcelli

Co-relator: Prof. Paolo Pinton

Co-relator: Dr. Bianca Vezzani

Department: Medical science-Experimental medicine

Laboratory: Signal transduction lab

Learnings:

- Ex-vivo intravital fluorescence microscopy
- Colon biopsies homogenization for the extraction of proteins and total RNA;
- Western Blot analysis
- Retro-transcription and qPCR
- Immunohistochemistry
- Blood processing through density stratification
- Handling of laboratory animals

110/110 cum Laude | Characterization of the expression levels of IP3R3 (inositol 1,4,5-trisphosphate receptor, type 3) in colon cancer | EQF level 7 | <https://corsi.unibo.it/2cycle/PharmaceuticalBiotechnology>

#### 2016 – 2019

#### Bachelor's Degree in Biotechnology (110/110 cum Laude)

University of Ferrara

I.C. Biochemical and Recombinant Technologies (12 CFU); Molecular and Recombinant Technologies (6 CFU); Biochemical and Cellular Technologies (6 CFU).

I.C. Biotechnological Drugs (12CFU); Molecular and Cellular Therapies (6 CFU); Pharmaceutical Biotechnology in the preclinical research (6 CFU).

Molecular and Cellular Pharmacology (6 CFU).

#### INTERNSHIP

Relator: Prof. Ilaria Lampronti.

Department: Life Sciences and Biotechnology (SvEB)

Laboratory: Biochemistry and Molecular Biology

Learnings:

- Counting (Burke Chamber/Coulter Counter), seeding and treatment of human Ovaric cancer cells (A2780), Colon cancer cells (HT29, LoVo, Ls174T) and Neuroblastoma cells (U251, T98G);
- Apoptosis' levels evaluation via Annexin V assay (MUSE Flow Cytometer);
- Nucleic Acids extraction (with either columns or organic solvents);
- Semi-quantitative and qPCR;
- Agarose gel electrophoresis;
- Western Blot.

110/110 cum Laude | "Antiproliferative and proapoptotic activity of new palladium complexes on human neoplastic cells" | EQF level 6

#### 2011 – 2016

#### Scientific High School Diploma (80/100)

Secondary School of the Republic of San Marino

07/2019

2



**Cambridge English Level 1 Certificate in ESOL  
International (First)**

Cambridge English

180/190 (Level C1)

**LANGUAGE SKILLS**

**MOTHER TONGUE(S):** Italian

**OTHER LANGUAGE(S):**

English

**Listening**  
C1

**Reading**  
C1

**Spoken  
production**  
B2

**Spoken  
interaction**  
B2

**Writing**  
B2

**DIGITAL SKILLS**

Google Drive / Google Docs / UCSC Genome Browser / PubMed  
(advanced user) / NCBI GenBank / DrugBank / ImageJ/Fiji (intermediate)  
/ Swiss PDB Views / KEGG Pathway / NCBI Blast

**Microsoft office**

Microsoft Word / Microsoft Powerpoint / Microsoft Excel / Outlook /  
Microsoft Teams

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## CONFERENCES AND SEMINARS

**30/06/2018** > – University of Ferrara

### **Innovative therapies for cystic fibrosis: from bench to bedside**

**Relator:**

Giulio Cabrini-Laboratory of Molecular Pathology, University Hospital of Verona

**02/12/2018** > – Ferrara, Sala Estense

### **Liquid Biopsy: a new frontier for the diagnosis and personalized therapy of tumors**

**Relators:**

Patrizio Giacomini: 4p Oncology.

Matteo Allegretti: Liquid Biopsy and Breast Cancer.

Elena Giordani: Liquid Biopsy in colorectal carcinoma and Ewing's sarcoma.

Alessia Finotti: microRNA analysis in the colorectal cancer's liquid biopsies.

Roberto Gambari: Tumors' personalized therapy: microRNA targeting.

Jessica Gasparello: In vitro models for the study of liquid biopsy.

Giuseppe Spoto: ULTRAPLACAD project.

**14/11/2019** > – Ferrara, Sala Estense

### **New frontiers in the diagnosis and therapy of Cystic Fibrosis**

**Relators:**

Giulio Cabrini: Cystic Fibrosis, genetic bases and pathophysiology.

Roberto Gambari: New Diagnostic and therapeutic strategies for Cystic Fibrosis.

Ilaria Lampronti: Development of new anti-inflammatories molecules.

Alessia Finotti: Cystic Fibrosis and Gene Editing.

Monica Borgatti: Cystic Fibrosis and readthrough strategy.

Anna Tamanini-Marco Cipolli: Pre-clinical and Clinical trials over CFTR modulators.

Elisabetta D'Aversa: New generations inhibitors.

**04/11/2021** > – University of Ferrara

### **"Off-the-shelf" allogenic CAR-T cells: in vivo Genome-wide screening reveals targets to enhance T-cell survival in allogenic environment**

**Relator:**

Dr. Silvia Menegatti (Institut Curie)

*Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679).*

Ferrara, 11/04/2022

④