

PERSONAL INFORMATION

Federico Ghiselli



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PREFERRED JOB

Research and development department manager

WORK EXPERIENCE

04/02/2019–31/10/2019

Laboratory Assistant

Vetagro SPA, Reggio Emilia (Italy)

- Eukaryotic cell culture
- Substances' tests for feed additives
- Molecular biology

04/06/2018–10/12/2018

Diagnostics and cell cultures Internship

Istituto Zooprofilattico della Lombardia ed Emilia Romagna, Forlì (Italy)

- Diagnostics
- Eukaryotic stem cell culture

01/03/2018–30/04/2018

Eukaryotic cell culture training

Vetago SPA, Reggio Emilia (Italy)

- Cell cultures
- Spectrophotometry
- Analysis of gene expression

04/04/2016–04/09/2016

Molecular genomics Internship

Alma Mater Studiorum, Bologna (Italy)

- PCR set up for food frauds
- Use of DNA sequencing tools

EDUCATION AND TRAINING

01/11/2019–Present

Ph.D. Veterinary science

Alma Mater Studiorum - Università di Bologna, Bologna (Italy)

10/10/2016–10/12/2018

Master's Degree in Animal Biotechnology (LM-9) - Voting: 110L / 110

EQF level 3

Alma Mater Studiorum, Bologna (Italy)

Degree thesis title: "Isolation and Culture of avian Primary Intestinal Epithelial Cells".

Knowledge and ability to apply the main methods:

1. Preparation and manipulation of eukaryotic cell cultures, isolation of primary cells from chicken embryo (internship project).
2. Biomolecular analysis for gene and protein expression.
3. Classical cytogenetics, molecular cytogenetics.
4. Pharmacology, pharmacokinetics, pharmacodynamics, pharmacosurveillance, bioequivalence, of the production process of drugs and clinical trial phases.
5. Gene therapy, regenerative medicine and biomaterials.
6. Fundamental pathological processes of the cell and tissues, with particular reference to pathogenetic mechanisms on a molecular basis and to aetiology in regressive, defensive, neoplastic processes and in circulatory disorders.
7. Genomics and proteomics.
8. Normative acts applicable to Biotechnologies and their main problematic aspects; understanding and using legal terminology appropriately; knowledge of the envisaged administrative tools and of the authorization and surveillance procedures applicable to the specific case; knowledge of the sanctions framework and the main fronts on which the prospects of reform of the legislative framework move.
9. Reproductive biotechnology for the production of transgenic animals and cloning.
10. Evaluation of the presence of xenobiotics and pollutants in food.
11. Analytical and quality control of human and animal food (certification of products for consumption).

01/09/2013–07/10/2016

Bachelor's Degree in Biotechnology (L-2) - Voting 108/110

EQF level 3

Alma Mater Studiorum, Bologna (Italy)

Degree thesis title: "Nanopore sequencing technology: development of protocols and evaluation of bioinformatic pipelines".

1. Basic knowledge of the fundamentals of genetics, molecular biology, microbiology, biochemistry, cell biology, physiology.
2. Knowledge of the basic techniques and protocols used in experimental procedures of cell biology, biochemistry, molecular biology, cell cultures, microbiology, pharmacological, reproductive and plant genetic biotechnologies.

01/09/2008–09/07/2013

High School with a specialisation in Chemistry - Voting: 96/100

EQF level 2

ITIS E. Mattei, Urbino (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B1	B1	B2
B2 certification					

French	A2	A1	A2	A1	A1
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Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills Excellent listening, communicative and motivational skills, acquired in the academic field, supporting other students during the study.

Organisational / managerial skills Good organizational skills for group work, acquired especially during the curricular internships carried out on the occasion of the three-year and master's degree at the laboratories of the University of Bologna and during my school career in the context of cultural project presentations.

Job-related skills Excellent knowledge of the methods for the isolation and treatment of cell cultures.
 Excellent knowledge of routine experimental procedures and related machinery such as: PCR, electrophoresis and DNA extraction; good knowledge and skills in sequencing processes such as: Sanger, Illumina, Nanopore acquired through internship experiences and didactic laboratory in university.
 Excellent knowledge of basic analytical chemical procedures such as: titrations, spectrophotometric analyzes, immunoenzymatic methods and chemical assays, acquired through educational workshops during high school (ITIS - Chemical Expert), internships and universities.
 Good skills for computational and bioinformatic analysis and clinical data management.
 Good knowledge of the production process of drugs, clinical trials and development of additives for animal nutrition.

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem-solving
	Proficient user	Independent user	Independent user	Proficient user	Independent user

Digital skills - Self-assessment grid

Excellent knowledge of Microsoft Office tools (Word, Excel, Power Point); excellent computer skills and basic knowledge of the most used programming languages (eg C #, HTML, Java, Python) acquired by self-taught.

Other skills Good skills in Genomics and cell culture's experiments acquired during the internships for a total of 725 hours.
 Good skills with bioinformatic tools and data management.

Driving licence A2, B

ADDITIONAL INFORMATION

Honours and awards "**Premio di merito a favore di studenti meritevoli** iscritti nell'a.a.2017/2018 a Corsi di studio dell'Università di Bologna"

Certifications Training course Modules 1-2-3: General training of safety and health and biological risk.
 Language proficiency test: ENGLISH LANGUAGE CERTIFICATION B2.

Conferences - Participation as an exhibitor at the Researchers' Night 2016 (Bologna)
 - Participation at **6th Edition of the International Conference on Poultry Intestinal Health 2019** (IHSIG Roma) with the poster "Isolation, primary culture and characterization of chicken intestinal epithelial cells"

- Seminars**
- EBW Immunoterapia oncologica nell'uomo e negli animali (Settembre 2017)
 - Le malattie oncologiche degli animali da compagnia: quali analogie con l'uomo? (Ottobre 2016)
 - Statistica avanzata (Febbraio 2020)