

CORINNE QUADALTI



SUMMARY

Open-minded and enthusiastic Scientist, with PhD in Veterinary Science, MSc in Animal Biotechnology,

multi-year expertise in Research and Development and Experimental Design fields, both in Industry and Academic,

looking for exciting and developing work environment.

SOFT SKILLS

- Fast learner
- Professional, dedicated and reliable
- Effective writing and presentation
- Both independent and with aptitude for teamwork and collaboration
- Strong organization and time management skills
- Excellent oral and written communication skills
- Excellent problem solving

HARD SKILLS

- Standard laboratory methods/ISO quality
- **Cell/tissue culture** (suspension/adherent/primary cells)
- **Design, setup and hands-on Genetic Engineering (CRISPR-Cas9, TALENs, Nickases)**
- Toxicology/pharmacology in vitro testing
- **RNA/DNA/protein extraction/quality**
- **Western blot/Blue Native electrophoresis**
- **Cell cloning/clone selection w/o antibiotic resistance**
- **Cell lines/primary cells transfection (Nucleofector, Neon, Lipofectamin)**
- **Molecular Biology**
- Microscopy/Confocal microscopy
- **Molecular cloning**
- **Genotyping/gene expression (PCR, RT-PCR)**
- Immunofluorescence (IF)/Immunocytochemistry (ICC)
- **Animal model generation/Animal tissue sampling**
- Complete command Microsoft Office/Adobe Reader (ECDL licence)
- Excellent command of web tools and online applications

WORK HISTORY

01/2018 – 08/2019

Two-year AIRC Fellowship for Italy 2017

Hosting Institution: CREO, University of Perugia, Dept. of Medicine, section Of Hemaology, Italy. Head of the hosting institution: Prof. Maria Paola Martelli

Project title: Dissecting NPM1-mutated AML leukemogenesis by genome editing of normal hematopoietic stem cells and AML cell lines. P.I: Dr. Corinne Quadalti

05/2017 – 12/2018

Post-doctoral research grant (Italy, University of Perugia, Dept. of Medicine, section of Hemaology).

Research carried out within the ERC project: ContraNPM1AML (Dissecting to hit the therapeutic targets in nucleophosmin (NPM1)-mutated acute myeloid leukemia).

Consolidator Grant (CoG), LS7, ERC-2016-COG; P.I: Prof. Maria Paola Martelli.

01/2017 – 03/2017

Research grant at AVANTEA SRL, Cremona (CR), Italy.

01/2014 – 12/2016

PhD candidate (University of Bologna, Department of Veterinary Science) - AVANTEA SRL

PhD project: Generation of a swine model of mitochondrial pathology using last generation NSS for DNA editing and Somatic Cell Nuclear Transfer. Supervisor: Prof. Cesare Galli.

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16.

The PhD project was a Work Package of the ERC Project: MITCARE (Mitochondrial Medicine: developing treatments of OXPHOS-defects in recombinant mammalian models). Advanced Grant (AdG), LS4, ERC-2012-ADG_20120314; P.I: Prof. Massimo Zeviani.

Research activity carried out at AVANTEA SRL, Cremona (CR), Italy.

01/2016 – 06/2016

Six-month secondment at Mitochondrial Biology Unit (MBU), MRC, Cambridge (UK); Supervisor: Prof. Massimo Zeviani

11/2013 – 01/2014

Co. Co. Pro (collaboration contract)

Field: research activity and experimental development of tools for large animal genetic engineering. Supervisors: Prof. Cesare Galli, Dr. Giovanna Lazzari At AVANTEA SRL, (Cremona, Italy).

PROFESSIONAL COURSES AND EDUCATION

09-10/10/2018

Agilent hands-on training course for the use of NGS targeted DNA custom panels.

12-14/06/2017

Training course in in vivo experimental research: “Corretto approccio alla sperimentazione animale” Held by: University of Perugia, Ce.Se.R.P and OPBA; Final examination: successful.

21/04/2017

PhD graduation at the University of Bologna, dept. of Veterinary Science; Thesis: “Modelling Leigh Syndrome in pigs”; Supervisor: Prof. Cesare Galli

26-31/03/2017

COST Action BM1308 Training School in Principles and Procedures of Tissue Sampling and Biobanking including Legal and Ethical Aspects”; Munich, Germany.

July 2013

Passed state examination to practice the profession of biologist (sez.A – first session 2013).

2010 – 2013

Master degree (120 ECTS) in Animal Biotechnology, University of Bologna; 110/110 cum laude; Thesis: “Use of a battery of in vitro toxicological tests for the characterization of two substances with estrogenic activity: diethylstilbestrol and 17-β estradiol”; Supervisors: Prof. Galli Cesare and Dott.ssa Lazzari Giovanna; AVANTEA SRL, Cremona (Italy).

2007 – 2010

First cycle degree (180 ECTS) in Biotechnonology, University of Bologna; 110/110; Thesis: “Efficiency of in vitro embryonic production using oocytes coming by pregnant cats or not in the reproductive period”; Supervisors: Prof. Maria Laura Bacci, Dott. Barbara Merlo; Clinical Department of Gynecology and Obstetrics, University of Bologna, dept. of Veterinary Medicine, Alma Mater Studiorum (Bologna – Italy).

FULL-LENGTH PUBLICATIONS

Crociara P, et al. Motor neuron degeneration, severe myopathy and TDP-43 increase in a transgenic pig model of SOD1-linked familial ALS. *Neurobiol Dis.* 2019 Apr;124:263-275. doi:10.1016/j.nbd.2018.11.021. Epub 2018 Nov 22.

Quadalti C et al. SURF1 Knockout cloned pigs: early onset of a severe lethal phenotype. *Biochim Biophys Acta.* 2018 Mar 28;1864(6 Pt A):2131-2142. doi: 10.1016/j.bbadis.2018.03.021. *Biochim Biophys Acta.* 2018 Jun; 1864(6Part A): 2131–2142. doi: 10.1016/j.bbadis.2018.03.021

Quadalti C et al. Development of an in vitro test battery for the screening of the receptor-mediated mechanism and the spindle-poison mode of action of estrogenic compounds. *Environmental toxicology and pharmacology*, Volume 48, December 2016, Pages 245-252; doi: 10.1016/j.etap.2016.11.005.

Perota A et al. The Applications of Genome Editing in Xenotransplantation. *Journal of Genetics and Genomics*, Volume 43, Issue 5, 20 May 2016, Pages 233–237; doi:10.1016/j.jgg.2016.04.012.

RESEARCH PRESENTED AT SCIENTIFIC MEETINGS

Martelli MP et al. Novel mutations and translocations involving nucleophosmin (NPM1) gene in acute myeloid leukemia (AML) and leading to aberrant cytoplasmic NPM1. *EHA-2710*, 2018

Perota A et al. Single-step gene editing of 3 xenoantigens in porcine fibroblasts using programmable nucleases. *Reproduction, Fertility and Development* 29(1) 210-211 <http://dx.doi.org/10.1071/RDv29n1Ab203>. Published: 2 December 2016 (IETS 2017)

Quadalti C et al. Use of CRISPR/Cas9 technology combined with ssODNs to obtain a specific mono-allelic amino acid substitution in the TDP43 protein for the generation of a swine model of Amyotrophic Lateral Sclerosis (ALS). *Transgenic Research* April 2016, Volume 25, Issue 2, pp 195-270 First online: 16 February 2016

Perota A et al. Generation of Gal-KO bovine fibroblast colonies using CRISPR/Cas9 technology and magnetic beads selection. *Transgenic Research* April 2016, Volume 25, Issue 2, pp 195-270 First online: 16 February 2016

Quadalti C et al. Holding pig oocytes at 24°C prior to in vitro maturation alters the developmental capacity after in vitro fertilization but not parthenogenetic activation. January 2016

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16.

Reproduction Fertility and Development 01/2016; 28(2):233. DOI:10.1071/RDv28n2Ab205. (IETS 2016)

Lagutina I et al. Efficient generation of Gal-KO cell lines for SCNT by selection with biotin-conjugated IB4-lectin attached to streptavidin-coated magnetic beads. Xenotransplantation Volume 22, Issue Supplement S1, page S121-S184 (921), November 2015. (IXA 2015)

Quadalti C et al. The application of bovine in vitro embryo production technology to develop an in vitro test battery for the screening of estrogenic compounds. Anim. Reprod., v.12, n.3, p.743, Jul./Sept. 2015. (AETE 2015)

Perota A et al. Targeted RMCE-live piglets generated by SCNT following sequential double site-specific gene modifications of a porcine EGFP line. Transgenic Research October 2014, Volume 23, Issue 5, pp 827-909. (ISTT 2014)

Bologna, 24/09/2019

Faithfully,

