Curriculum vitae

PERSONAL INFORMATION

Lucia Lisa Petrilli

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WORK EXPERIENCE

01/03/2018 – to date

Post-doctoral Training Fellow
Paediatric High Grade Glioma Team, Dr. Vinci M. Group Leader
Department of Onco-Haematology, Gene and Cell Therapy, Head: Prof. Locatelli F.
Bambino Gesù Children's Hospital – IRCCS, Rome (Italy)
Project title: "Inter and intra tumour heterogeneity in paediatric high grade glioma"

01/11/2014 – 30/01/2018

PhD Student in Cellular and Molecular Biology
Molecular Genetics laboratory, Prof. Cesareni G. Group Leader
University of Rome "Tor Vergata", Rome (Italy)
Thesis: "Single-cell analysis of muscle cell population heterogeneity under physiological and pathological conditions"

01/11/2013 – 09/10/2014

Master Degree Internship
Molecular Genetics laboratory, Prof. Castagnoli L.
University of Rome "Tor Vergata", Rome (Italy)
Thesis: "Single cell analysis for the characterization of mononuclear populations of the skeletal muscle"

01/03/2012 – 01/06/2012

Bachelor of Science degree internship
Laboratory of Cytogenetics and Environmental mutagenesis, Prof. Gustavino B.
University of Rome "Tor Vergata", Rome (Italy)
Thesis: "The application of micronuclei test to evaluate the mutagenic effect of contaminants present in the sediment of polluted waters: The Sacco River case"

EDUCATION AND TRAINING

21/10/2019 – 19/12/2019

"Guido Berlucchi" Foundation travel fellowship winner
"Novel insights into the brain tumour microenvironment of pHGG: an in-depth analysis through imaging mass cytometry data", Hosting Organization: Cancer Research UK, *Supervisor:* Dr. Dario Bressan, Cambridge (UK)

02/10/2019 – 04/10/2019

histoCAT workshop and 3rd Annual Imaging Mass Cytometry User Group Meeting, Zurich (Switzeraland)

14/05/2019 – 17/05/2019

Corso di Biostatistica Avanzato:
"L'uso della statistica nella ricerca biomedica e applicazione del software R" – Consiglio Nazionale delle Ricerche, Rome (Italy)

23/10/2018 – 24/10/2018

Theoretical-practical course – "Dal macro al micro allestimento di preparati per la microscopia" – Bambino Gesù Children's Hospital, Rome (Italy)

29/11/2017

Felasa Functions A, C, D

01/11/2014 – 30/01/2018	PhD in Cellular and Molecular Biology (PhD Supervisor, Prof. Cesareni G.)

University of Rome "Tor Vergata", Molecular Genetics laboratory, Rome (Italy)
Thesis: "Single-cell analysis of muscle cell population heterogeneity under physiological and pathological conditions"

17/12/2014	Qualified in practicing the profession of Biologist, University of Rome "Tor Vergata"

13/12/2012 – 09/10/2014	Master in Cellular and Molecular Biology

University of "Rome Tor Vergata, Facoltà di Scienze Fisiche, Naturali e Matematiche", Rome (Italy)
Thesis: "Single cell analysis for the characterization of mononuclear populations of the skeletal muscle"
Final mark: 110/110 cum laude
Virology, Drug Design, Proteins and Metabolism, Structure and function of biological macromolecules, Cellular differentiation, Molecular biochemistry of plants, System Biology, Molecular genetics of the neoplastic transformation, Physical Chemistry, Informatic Methods for Biology, English

01/10/2009 – 13/12/2012	Bachelor of Science (Biology)

University of "Rome Tor Vergata, Facoltà di Scienze Fisiche, Naturali e Matematiche", Rome (Italy)

Thesis: "The application of micronuclei test to evaluate the mutagenic effect of contaminants present in the sediment of polluted waters: The Sacco River case"

Final mark: 110/110

Cytology and Histology, Chemistry, Genetics, Organic Chemistry, Maths, Physics, Physical Chemistry, Botanic, Microbiology, Developmental Biology, Biochemistry, Zoology and Parasitology, Clinical Biochemistry, Bioethics, Bioinformatics, Ecology, Comparative Anatomy, Molecular Biology, Anthropology, Statistics, Medical Genetics, Immunology, Human Physiology, Plant Physiology, English

13/09/2004 – 10/07/2009	High School diploma

Liceo Scientifico "F. D' Ovidio, Larino (Italy)
Final mark: 93/100

PERSONAL SKILLS

Mother tongue(s)   Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
B2	B2	B2	B2	B2
Trinity - Level 9				
French				
B2	B2	B2	B2	B2
DELF B2				

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

Job-related skills	Standard cell culture maintenance and in vitro assays;
	Primary cell preparation from skeletal muscle tissue and solid tissue (rhabdomyosarcoma); Expansion and maintenance of pediatric high grade glioma cells (DIPG and pGBM);
	Co-culture of pHGG cells and NK cells for cytotoxicity assays;
	Collection of conditioned medium for exosome extraction;
	Handling and processing of blood and CSF patient samples;
	Cell manipulation via transfection;
	Cell sorting;
	Skeletal muscle tissue and solid tumor isolation, embedding and cryostat sectioning, Immunohistochemistry, immunofluorescence and histological analysis;
	Flow cytometry sample preparation, run and analysis;
	Mass cytometry (CyTOF2 and Helios instrument) sample preparation, run and analysis;
	Imaging mass cytometry (IMC) sample preparation, run and analysis;
	Antibody purification and antibody conjugation with metal tags;
	In vivo and in vitro adenovirus (Ad-CRE) infections;
	RNA, DNA and protein extraction from cells, blood and tissues;
	PCR, Primer design and qPCR;
	Agarose gel preparation;
	Agarose and polyacrylamide gel electrophoresis;
	Western blot;
	High content image analysis (Celigo imaging cytometer - Nexcelom) and Operetta CLS (PerkinElmer);
	Optical and fluorescence microscopy;
	Animal maintenance, handling and genotyping (mice).

Digital competence

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

Digital competences - Self-assessment grid

ECDL

MS Office, Adobe Photoshop, Adobe Illustrator, GraphPad Prism, ImageJ, CellProfiler, FlowJo, Cytobank, histoCAT, Ilastik, Database consultation

Driving licence B

ADDITIONAL INFORMATION

Conferences	2020. Attended for poster presentation at the 2nd "Brainstorming Research Assembly for Young Neuroscientists" - BraYn" Web Conference
	2019. Attended for poster presentation at XLIV Congresso Nazionale AIEOP - Catania, Italy
	2019. Attended the seminar "Opening symposium for the Hyperion Imaging System" at the University of Bergen, Norway
	2018. Attended for poster presentation at Cancer in Children and Young People International Scientific and Medical Conference 2018, London
	2017. Attended for poster presentation at EMBO Conference "Advances in Stem Cells and Regenerative Medicine", Heidelberg, Germany
	2016. Attended and delivered a brief speech "Investigating the cell origin and heterogeneity of embryonal Rhabdomyosarcoma" at IIM-Myology Meeting 2016, Assisi, Italy
	2015. Attended and delivered a brief speech "Investigating the cell origin and heterogeneity of embryonal Rhabdomyosarcoma" at IIM-Myology Meeting 2015, San Bartolomeo, Italy
Honors	01/03/2021 Awarded "AIRC Fellowship Application Call 2020" - Project: "Dissecting pediatric high grade-glioma through single-cell mass cytometry: from tissue to cell and back" (25000€)
	26/11/2020 Awarded "BraYn" Conference 2nd Starting Grant Call 2020 - Project: "Dissecting pediatric high grade-glioma through single-cell mass cytometry: from tissue to cell and back" (5000€)
	21/10/2019 – 19/12/2019 "Guido Berlucchi" Foundation travel fellowship winner

Autorizzo l'ISS e l'Associazione NanoInnovation al trattamento dei miei dati personali e la loro conservazione ai fini organizzativi e amministrativi, secondo quanto previsto dal Regolamento UE 2016/679.