

PERSONAL INFORMATION

First name/Surname Ivana Kurelac
Telephone +39 3498955373
E-mail ivana.kurelac@unibo.it
URL <https://www.unibo.it/sitoweb/ivana.kurelac/en>
Nationality Croatian
Date of Birth 09/10/1982

CURRENT POSITION

(since January 2016) Junior Assistant Professor at the Dept. of Medical and Surgical Sciences, University of Bologna, Italy

SCIENTIFIC INTEREST

Understanding the impact of mitochondrial complex I dysfunction in cancer progression

EDUCATION

January 2008-December 2011
PhD student in Human Genetics (Human Oncology program), University of Turin, Italy
October 2001-December 2006
Student of Molecular Biology at the Faculty of Natural Sciences, University of Zagreb, Croatia

PREVIOUS POSITIONS

Period October 2016-June 2017
Position Visiting scientist
Project Microenvironment of complex I deficient cancers
Reference contact Ilaria Malanchi, PhD (ilaria.malanchi@crick.ac.uk)
Institution Francis Crick Institute, London, UK

Period January 2012-December 2014
Position Junior Post-Doc
Project Mitochondrial dysfunction and low-proliferative tumor phenotype: Lessons from oncocytic tumors
Reference contact Giuseppe Gasparre, PhD (giuseppe.gasparre3@unibo.it)
Institution Laboratory for Medical Genetics, S. Orsola Hospital, University of Bologna, Bologna, Italy

Period April-July 2011
Position Visiting Fellow
Project Genomic profiling of breast, thyroid and pituitary neoplasias
Reference contact J. S. Reis-Filho, Professor of Molecular Pathology (reisfilj@mskcc.org)
Institution The Breakthrough Breast Cancer Research Centre, Institute of Cancer Research (ICR), London, UK

Period 2008-2011
Position PhD student
Project The role of mitochondrial DNA mutations in oxyphilic cancer progression
Reference contacts Giovanni Romeo, Professor of Medical Genetics (egf.giovanni.romeo@gmail.com)
Marco Seri, Professor of Medical Genetics (marco.seri@gmail.com)
Institution Laboratory for Medical Genetics, S. Orsola Hospital, University of Bologna, Bologna, Italy

Period June-December 2007
Position Post graduate Fellow
Project Genetics of Familial and Oxiphilic Thyroid Cancers
Reference contact Giovanni Romeo, Professor of Medical Genetics (egf.giovanni.romeo@gmail.com)
Institution Laboratory for Medical Genetics, S. Orsola Hospital, University of Bologna, Bologna, Italy

Period October 2005 - April 2006
Position Undergraduate student
Project ESTs data base sequencing and expression studies of novel caspases
Reference contact W.E.G. Muller, Professor of Molecular Biology (wmuller@mail.uni-mainz.de)
Institution Institut für Physiologische Chemie, Johannes Gutenberg Universität, Mainz, Germany

TEACHING EXPERIENCE

- Period 2015/2016
Activity Laboratory Assistant at the Course of Cellular Biology
Reference contact Prof. Monica Forni (monica.forni@unibo.it)
- Period 2014/2015
Activity Laboratory Assistant at the Course of Molecular Biology: Eukaryotes
Reference contact Prof. Elena Baraldi (elena.baraldi@unibo.it)
- Period 10-11 November 2014
Activity Lecturer at the Mitochondrial DNA workshop (Methods for mtDNA mutation load evaluation)
Reference contact Prof. Valerio Carelli (valerio.carelli@unibo.it)
- Period 2011-present
Activity Tutoring undergraduate students during thesis elaboration
Reference contact Giuseppe Gasparre, PhD (giuseppe.gasparre3@unibo.it)

COMPETITIVE FUNDING

- 2016** A triennial contract as Junior Assistant Professor, University of Bologna, within the project: "Determinants of the homoplasmic shift of mtDNA mutations in families with recurrent oncocytic lesions"
- 2014** A post-doctoral fellowship from The Dept. of Medical and Surgical Sciences, University of Bologna, assigned for the project: "Identification of molecular mechanisms linking complex I dysfunction and lack of HIF1a stabilization"
- 2012** A triennial post-doctoral fellowship from the Italian association for cancer research (AIRC), assigned for the project "Mitochondrial dysfunction and low-proliferative tumor phenotype"
- 2008** PhD scholarship from Italian Ministry of Education, Universities and Research, for entering Human genetics PhD program (Human oncology sector), University of Turin, Italy
- 2005** Scholarship from Johannes Guttenberg University, Mainz, Germany, for "ESTs database sequencing and expression studies of novel caspases"

AWARDS

- 2015** 1st prize for the best oral presentation at the annual Italian Biochemistry Group (GIBB) meeting, Udine, Italy
- 2010** 1st prize for the best proceeding at the EMBO Course on Mitochondria and Cancer, Ronzano, Italy

LANGUAGES

Croatian (mother tongue), English (proficient user), Italian (proficient user), German (independent user)

LABORATORY SKILLS

Proficient: cell culture, xenografts in immunodeficient mice, 3D cultures, co-culture assays, Western Blotting, transfection, zinc-finger genetic engineering, in vitro tumorigenic assays (soft agar, clonogenic assay, 2D migration), flow cytometry, immunohistochemistry, immunofluorescence, cancer associated fibroblast assays, PCR based techniques, Sanger sequencing, site directed mutagenesis, dHPLC, qRT-PCR (MIQE certificate), cDNA cloning, Ruskin Invivo hypoxic chamber user
Some experience: immunoprecipitation, shRNA silencing, array CGH, LOH and microsatellite analysis
Bioinformatic tools and portals: FlowJo, DIVA, ImageJ, Exome variant prioritization, Seqscape, GeneMapper, PeakScanner, Polyphen, Clustal X, Primer3, Oligo Analyzer, RNA structure, Mfold, Webcutter, TCGA, STRING, Prosite, KEGG, Ensembl, OMIM, HmtDB, Mitomap, Gene ontology, ATCC, ...

TRACK RECORD

28 PubMed Articles, Total impact factor 153, H index:11, >30 conference/symposia proceedings (3 as invited speaker), 1 book chapter