CURRICULUM VITAE

PERSONAL INFORMATION

Family name, First name: Iommarini, Luisa

Researcher unique identifier: ORCID 0000-0002-6804-7302

Date of birth: 01/05/1979

Nationality: Italian

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EDUCATION

2009 PhD in Cell Biology and Physiology. School of Physics, Mathematics and Nature Sciences, University of Bologna, Italy.

2005 Master degree in Industrial Biotechnology. School of Physics, Mathematics and Nature Sciences, University of Bologna, Italy

1998 Scientific High School Degree Liceo Scientifico Statale "R. Mattioli" Vasto, Italy

CURRENT POSITION

2012 – Present Senior Post-Doctoral fellow. Department of Pharmacy and Biotechnology, University of Bologna, Italy

PREVIOUS POSITIONS

2010 – 2012 Post-Doctoral fellow. Department of Evolutionistic Biology, University of Bologna, Italy

2009 – 2010 Post-Doctoral fellow. Department of Neurological Sciences, University of Bologna, Italy

2009 – 2010 Visiting fellow. Laboratory of Mitochondrial Biochemistry and Genetics, Miller School of Medicine, University of Miami, Miami, Florida, USA

FELLOWSHIPS

2013 – Today **Post-Doctoral Fellowship**, Department of Pharmacy and Biotechnology, University of Bologna.

2012 – 2013 **Post-Doctoral Fellowship** funded by Fondazione Umberto Veronesi Young Investigator Programme 2012-2013.

2010 – 2012 **Post-Doctoral Fellowship** funded by Fondazione Europea per la Genetica.

2009 – 2010 **Post-Doctoral Fellowship**, Department of Neurological Sciences, University of Bologna.

2009 **International scholarship** funded by Programma Marco Polo, University of Bologna. Lab. of Mitochondrial Biochemistry and Genetics, Miller School of Medicine, University of Miami.

2008 **International scholarship** funded by IRCCS Bietti Foundation for the study and the research in ophthalmology and by Programma Marco Polo, University of Bologna. Lab. of Mitochondrial Biochemistry and Genetics, Miller School of Medicine, University of Miami.

POSTER PRESENTATIONS AS FIRST AUTHOR AND ORAL PRESENTATIONS

2015 Invited speaker at European School of Genetic Medicine (ESGM) – European Society of Human Genetics, Eye Genetics Course 2015, September 2015, Bertinoro, Italy.

2015 Speaker at Italian Group of Biomembranes and Bioenergetics Meeting 2015, Udine, Italy.

2014 Selected speaker at Mitochondria, Energy Metabolism and Cancer, Institute of Child Health, University College London, February 2014, London UK.

2013 Speaker at Italian Group of Biomembranes and Bioenergetics Meeting 2013, Padua, Italy.

2012 Invited speaker at Società Italiana di Genetica Umana 2012, November 2012, Sorrento, Italy.

2010 Speaker at Italian Group of Biomembranes and Bioenergetics Meeting 2010, Bertinoro, Italy.

AWARDS

2015 Best presentation award, Italian Group of Biomembranes and Bioenergetics Meeting 2015, Udine, Italy.

2014 Best poster award BBA – Bioenergetics, EUROMIT 2014, Tampere, Finland.

RESEARCH ACTIVITY

From 2006 to nowadays, the PI has been involved as internal collaborator to the following research projects:

2007-2010 **Telethon grant GGP06233B (PI Valerio Carelli) -** Pathogenic mechanisms for degeneration of retinal ganglion cells in mitochondrial optic neuropathies

2009-2011 **Italian Association for Cancer Research (AIRC) grant IG8810 (PI Giovanni Romeo) -** TRANSMIT: Translational significance of mitochondrial mutations in tumors

2010-2012 **E-Rare European Research Projects on Rare Diseases (PI Dominique Bonneau) –** European Research project on Mendelian Inherited Optic Neuropathies

2010-2013 **Futuro in Ricerca (FIRB) grant J31J10000040001 (PI Giuseppe Gasparre)** – TRANSMIT: Translational significance of mitochondrial mutations in tumors

2010-2012 **Fondazione Umberto Veronesi grant (PI Giuseppe Gasparre)** – DISCO TRIP: Disrupting mitochondrial complex I to trigger pseudonormoxia: an anticancer strategy

2010-2013 **Telethon grant GPP10005 (PI Massimo Zeviani)** - Therapeutic strategies to combat mitochondrial disorders

2012-2014 **United Mitochondrial Diseases Foundation Grant (PI Carla Giordano) -** Estrogen mediated regulation of mitochondrial biogenesis and functions: possible therapeutic implications for Leber's hereditary optic neuropathy

2012-2014 **Fondazione Umberto Veronesi Grant (PI Giuseppe Gasparre) -** DISCO TRIP - Disrupting complex I to trigger pseudonormoxia

2013-2015 **Italian Association for Cancer Research (AIRC) (PI Giuseppe Gasparre) –** JANEUTICS: From the oncojanus function of mitochondrial genes to anti-cancer therapeutic strategies

2016-2018 **Italian Association for Cancer Research (AIRC) (PI Anna Maria Porcelli) –** TOUChMe - Taxane Resistance in Ovarian Cancer: Understanding the Contribution of Mitochondrial Metabolism Defects

SELECTED PUBLICATIONS AND BIBLIOMETRIC PARAMETERS calculated by Scopus (04/07/2017). Total citations: 954; h-index: 16.

1. **Iommarini L,*** et al., Mitochondrial metabolism and energy sensing in tumor progression. Biochim Biophys Acta. 2017 Feb 14. pii: S0005-2728(17)30028-2. doi: (***Corresponding author**)
2. Vatrinet R,* **Iommarini L,*** et al. Targeting respiratory complex I to prevent the Warburg effect. Int J Biochem Cell Biol. 2015 Jun;63:41-5. (***First author**)
3. **Iommarini L**, et al., Mitochondrial Diseases Part II: Mouse models of OXPHOS deficiencies caused by defects in regulatory factors and other components required for mitochondrial function. Mitochondrion. 2015 May;22:96-118.
4. Calabrese C,* **Iommarini L,*** Kurelac I,*, et al., Respiratory complex I is essential to induce a Warburg profile in mitochondria-defective tumor cells. Cancer Metab. 2013 Mar 18;1(1):11. (***First author**)
5. **Iommarini L**, et al., Different mtDNA mutations modify tumor progression in dependence of the degree of respiratory complex I impairment. Hum Mol Genet. 2014 Mar 15;23(6):1453-66.
6. Bartoletti-Stella A, et al., Gamma rays induce a p53-independent mitochondrial biogenesis that is counter-regulated by HIF1α. Cell Death Dis. 2013 Jun 13;4:e663.
7. **Iommarini L,*** et al., Revisiting the issue of mitochondrial DNA content in optic mitochondriopathies. Neurology. 2012 Oct 2;79(14):1517-9. **(*Corresponding author**)
8. Achilli A,* **Iommarini L,*** et al., Rare primary mitochondrial DNA mutations and probable synergistic variants in Leber's hereditary optic neuropathy. PLoS One. 2012;7(8):e42242. (***First author**)
9. **Iommarini L,** et al., Complex I impairment in mitochondrial diseases and cancer: parallel roads leading to different outcomes. Int J Biochem Cell Biol. 2013 Jan;45(1):47-63.
10. Gasparre G, et al., A mutation threshold distinguishes the antitumorigenic effects of the mitochondrial gene MTND1, an oncojanus function. Cancer Res. 2011 Oct 1;71(19):6220-9.
11. Srivastava S, et al., PGC-1alpha/beta induced expression partially compensates for respiratory chain defects in cells from patients with mitochondrial disorders. Hum Mol Genet. 2009 May 15;18(10):1805-12.
12. Amati-Bonneau P, et al., OPA1 mutations induce mitochondrial DNA instability and optic atrophy 'plus' phenotypes. Brain. 2008 Feb;131(Pt 2):338-51.
13. Gasparre G, et al., Disruptive mitochondrial DNA mutations in complex I subunits are markers of oncocytic phenotype in thyroid tumors. Proc Natl Acad Sci U S A. 2007 May 22;104(21):9001-6.