

Valeria MERICO
CURRICULUM VITAE ET STUDIORUM

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- 2015-to date. Associated Professor, Department of Biology and Biotechnology, University of Pavia
- 2011-2015. Researcher, Department of Biology and Biotechnology, University of Pavia
- 2010-2011 Post-doc fellowship. Research project: "Effects of *propylthiouracil* treatment on degeneration of artery wall induced by beta-aminopropionitrile (BAPN). Supervisor dr. Roberto Imberti. IRCCS Foundation, Policlinico San Matteo, Pavia.
- 2008-2010 Post-doc fellowship. Research project: "Mechanisms of platelet production in mouse and human models in healthy and pathogenic conditions". Supervisor, dr. Alessandra Balduini (University of Pavia).
- 2005-2008 Post-doc fellowship. Research project: "Changes of the nuclear architecture of mouse female germ cells during folliculogenesis and of embryos throughout preimplantation development". Supervisor: Professor Silvia Garagna (University of Pavia).
- 2001-2004. PhD in Bioengineering and Medical Computer Science; University of Pavia; supervisor Professor C.A. Redi (University of Pavia).
- 2001 Qualification as a professional biologist.
- 2001. Degree in Biological Sciences, University of Pavia. Supervisors: Professor C. A. Redi, Professor Silvia Garagna (University of Pavia).
- 1995. Science Diploma.

AWARDS

- 2010. Winner of "Alberto Monroy Foundation" fellowship (amount 4000 euros) to attend at the MBL Embryology course, Woods Hole.
- 2010. Winner of prize (amount 135000 euros) for the study of embryonic stem cells like reprogramming model of undifferentiated cells, University of Pavia
- 2004. Winner of "Le Scienze 2004 – Medaglia del Presidente della Repubblica" prize for the study of the changes of the nuclear architecture during mouse preimplantation development.

ACADEMIC CAREER

- a.a. 2010-2011. Professor in "Developmental Biology", Biological Science course, University of Pavia.
- 2005 Designation to "Cultore della materia" (subject cultured person) in Biology of Stem Cells; Biotechnology of the Reproduction, Faculty of Sciences, University of Pavia.
- 2004 to date: Graduation Committee member in quality of external supervisor, Biological Sciences Course, Faculty of Sciences, University of Pavia.
- 2003 to date: Committee member at the examination in Zoology and Developmental Biology, Biological Sciences Course, Faculty of Mathematical, Physical and Natural Sciences, University of Pavia.
- 2003 to date: Academic lessons and/or seminars in Developmental Biology, Biological Sciences Course, Faculty of Sciences, University of Pavia.
- 2003 Designation to "Cultore della materia" (subject cultured person) in Zoology and Developmental Biology, Faculty of Sciences, University of Pavia.

Teacher in the following courses devoted to scientific journalists and judges:

- 2005. "Hot genetic issues and Courts" course. Pavia, 7-10 September.
- 2005. IV course of science journalism "Cells and Genomes". Pavia, 13-16 September.
- 2005. "See your DNA", Milan, Palazzo delle Stelline, 26 april and Roma, 27 May.
- 2004. III course of science journalism "Cells and Genomes". Pavia, 27 September- 1 October.
- 2004. "47° Festival dei due mondi - XVI Spoleto Scienza". Spoleto, 17, 18 July.
- 2003. II formation course "The judge and the genetic". Pavia, 22-24 September.
- 2003. II course of science journalism "Cells and Genomes". Pavia, 24-28 February.
- 2003. "Studio dei meccanismi molecolari della riprogrammazione genetica di nuclei somatici per lo sviluppo di nuove opportunità terapeutiche nella medicina rigenerativa". Pavia, 3-14 February.
- 2002. "The judge and the genetic". Pavia, 23-27 September.
- 2002. "Cells and Genomes". Pavia, 10-16 February

SPECIALIZATION COURSES

- 2010 MBL Embryology course: "Embryology: Concepts and Techniques in Modern Developmental Biology". Marine Biology Laboratory, Woods Hole MA (USA), 12th June-24th July.
- 2004 Pre-Symposium Workshop: "Fluorescence detection of antigens". Prague, 21-22 September.
- 2001 Workshop: "IV Italian workshop of quantitative PCR", Firenze (Italy), November, 21.
- 1999 "VI course of Molecular Cytogenetic", Pavia, October, 11-12.
- 1999 Course: "Light microscopy and photomicrography techniques", Pavia, April, 26-30.
- 1999 Course: "PCR and *in situ* PCR", Pavia, March, 29.
- 1998 "V basic course of Light microscopy and photomicrography techniques", Pavia, March, 20-24.

CONGRESSES

- 2014. **Merico V**, Parada-Bustamante A, Zanoni M, Belli M, Vigone G, Rebuzzini P, Redi CA, Zuccotti M, Garagna S A low-dose of 2-hydroxyestradiol is beneficial to mouse oocyte *in vitro* maturation and developmental competence (Selected for the oral presentation). XX International Chromosome Conference University of Kent, Canterbury; 1-4 Settembre.
- 2014. Rebuzzini P, Mulas F, **Merico V**, Bellazzi R, Redi CA, Zuccotti M, Garagna S. Bioinformatics analysis of the transcriptome of three mouse embryonic stem cells showed their different position on a time-scale of differentiation (Poster). XX International Chromosome Conference University of Kent, Canterbury; 1-4 Settembre.
- 2014. Rebuzzini P, **Merico V**, Redi CA, Zuccotti M, Garagna S A putative 2n=26 Robertsonian mouse embryonic stem cell line maintains its karyotype stability when cultured up to passage 28 (Poster). XX International Chromosome Conference University of Kent, Canterbury; 1-4 Settembre.
- 2013. Vigone G, **Merico V**, Mulas F, Sacchi L, Bellazzi R, Belli M, Redi CA, Adjaye J, Garagna S, Zuccotti M "AMH transcript: a non-invasive cumulus cells marker of the oocyte developmental competence". "Oocyte maturation and fertilization: lessons from canonical and emerging models" EMBO conference proceedings, France, 12-15/06/2013.
- 2013. Belli M, Cimadomo D, **Merico V**, Vigone G, Redi CA, Garagna S, Zuccotti M. *NOBOX, a marker of oocyte developmental competence*. Oocyte maturation and fertilization: lessons from canonical and emerging models" EMBO conference proceedings, France, 12-15/06/2013.
- 2013. Zuccotti M, Belli M, Vigone G, **Merico V**, Redi CA, Rebuzzini P, Adjaye J, Garagna S *Acquisition of the oocyte developmental competence*. "Oocyte maturation and fertilization: lessons from canonical and emerging models" EMBO conference proceedings, France, 12-15/06/2013.
- 2013. Dorati R, Genta I, Modena T, Vigone G, **Merico V**, Garagna S, Zuccotti M, Conti B. *3D culture of mouse ovarian follicles: optimization of the encapsulation protocol and characterization of the alginate matrix*. 54° AFI symposium, Italy, 11-13/06/2014.
- 2010. Rizzo E, **Merico V**, Magni P. Design and implementation of a MatLab tool for the representation of domains in the 3D space of the nucleus. Secondo Congresso Nazionale di Bioingegneria, Torino, 8 – 10 luglio 2010 (Poster).
- 2009 **Merico V**, Carpi D, Zuccotti M, Pastorelli R, Redi CA, Garagna S, Bladuini A. *In vitro model to differentiate mouse embryonic stem cells in functional megakaryocytes and platelets*. Human Pluripotent Stem Cells Symposium: Interrogating disease and development, Dublin 22-24 April, (poster presentation).
- 2008 Neri T., **Merico V.**, Redi C.A, Garagna S., Zuccotti M. "Mouse fibroblasts are reprogrammed to Oct-4, Rex-1 gene expression and alkaline phosphatase activity by embryonic stem cell extracts", at the meeting "First International Symposium on Human Embryonic Stem Cell research", Evry, Paris, January 31st-February 2nd, (poster presentation).
- 2008 **Merico V.**, Neri T., Redi C.A, Garagna S., Zuccotti M. "Dose- and time-dependent induction of Cyp1A1 gene and protein expression in mouse ES cells cultured in presence of 2,3,7,8-tetrachlorodibenzo-para-dioxin" at the meeting "First International Symposium on Human Embryonic Stem Cell research", Evry, Paris, January 31st-February 2nd, (poster presentation).
- 2007 Neri T., **Merico V.**, Redi C.A, Garagna S., Zuccotti M. "Mouse fibroblasts are reprogrammed to Oct-4, Rex-1 gene expression and alkaline phosphatase activity by embryonic stem cell extracts", at the meeting "Challenges in stem cell differentiation and transplantation", Milan, 30 September 30th-October 3rd (poster presentation).
- 2005 **Merico V.**, Barbieri J., Sebastiano V., Zuccotti M., Redi C.A., Garagna S. *Dynamic 3-D localisation of centromeres in preimplantation mouse embryos obtained by in vitro fertilisation, nuclear transfer and parthenogenesis*. The Wilhelm Bernhard Workshop. 19th International Workshop on the Cell Nucleus. Münsterschwarzach Abbey (Germany), 1-5 September (oral presentation)..

- 2005. **Merico V.**, Barbieri J., Monti M., Vasco C., Neri T., Zanoni M., Zuccotti M., Garagna S., Redi C.A. *Dynamics of nuclear architecture of oocytes throughout folliculogenesis*. XX Congresso di Medicina della Riproduzione "Iter terapeutico della coppia infertile". Padova, 25-26 February (oral presentation).
- 2004 **Merico V.**, Monti M., Sebastiano V., Zuccotti M., Redi C.A., Garagna S. 3-D localisation of centromeres and chromocenters in preimplantation mouse embryos. 46th Symposium of the Society for Histochemistry; Prague, 22-25 September (oral presentation).
- 2004 **Merico V.**, Monti M., Zuccotti M., Redi C.A., Garagna S. 3-D localisation of centromeres and chromocenters in preimplantation mouse embryos; in ICC XV - The 15th International Chromosome Conference. Brunel University, London, United Kingdom, 5-10 September. *Chromosome Research*, vol 12 (suppl 1) – pp 28 (oral presentation).

REFeree ACTIVITY

She is acting as referee for international scientific Journals: *Acta histochemica*, *African Journal of Biotechnology*.

PUBLICATIONS

N. 61 TOTAL PUBLICATIONS (N. 35 INTERNATIONAL JOURNALS; N. 15 NATIONAL JOURNALS; N. 11 BOOK CHAPTERS)