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### Dr. Danilo Cimadomo

Dr. Cimadomo received his Bachelor of Science degree magna cum laude in Biotechnology at University of Pavia (Italy) in 2009 and Master of Science degree magna cum laude and a special mention in Molecular Biology and Genetics at the same University in 2012.

In 2013 he attended to a specialization course in Novel technologies in molecular medicine at the University of Padova (Italy).

In January 2018 he obtained his PhD cum laude at the University of Rome with a Thesis entitled “MicroRNAs in human spent blastocyst culture media: mediators of an embryo-endometrium dialogue. Novel potential non-invasive biomarkers of reproductive competence in IVF”.

He has followed a three-year internship in the laboratory headed by Prof Carlo Alberto Redi, Prof Silvia Garagna and Prof Maurizio Zuccotti at the University of Pavia (Italy) between 2009 and 2012.

He has also followed a three-month internship in the lab headed by Prof Miguel Constanca at the University of Cambridge (UK) in summer 2011.

Since 2012 he has been working as molecular biologist for G.EN.E.R.A., Centers for Reproductive Medicine (Italy) (Clinical director: dr Filippo Maria Ubaldi; Laboratory director: dr Laura Rienzi) and GENETYX, Molecular Biology Laboratory (Italy) (Laboratory director: dr Antonio Capalbo).

Since October 2017, he is the scientific coordinator of the G.EN.E.R.A., Centers for Reproductive Medicine (Italy).

His research is focused on preimplantation genetic testing and on the investigation of novel approaches to improve embryo selection and take-home baby rates in IVF.

He participated in the project entitled “Secreted miRNAs can be profiled with high accuracy and reproducibility from blastocyst spent culture media: a new promise for non-invasive biomarkers of embryo quality” awarded with the Grant for Fertility Innovation in 2013.

In 2014 he was awarded with the second prize for the best oral presentation at the “National Meeting of reproductive medicine” in Riccione for a study entitled “Influence

of morphological quality and developmental rate to blastocyst on the developmental competence of euploid embryos: a prospective non-selection study”

In 2015 he was awarded with the third prize for the best oral presentation at the “National Meeting of reproductive medicine” in Riccione for a study entitled “Technical and clinical outcomes associated with blastocyst stage biopsy and aneuploidy screening are consistent and reproducible across different operators: a multicentre study of 2586 biopsies”.

He participated in the project entitled “Clinical translation of a new procedure for embryo evaluation based on miRNAs profiling from spent blastocyst culture media: prospective multicenter study” awarded with the Grant for Fertility Innovation in 2015.

In 2016, he was awarded with the first prize for the oral presentation at the “National Meeting of reproductive medicine” in Riccione for a study entitled “Characterization of the human blastocyst miRNome: Inner Cell Mass, trophectoderm and related Spent Blastocyst Media”.

He presented two studies at the ESHRE annual meetings in 2015 in Lisbon and in 2016 in Helsinki, based on the characterization of the whole miRNome of the human blastocyst, as well as two posters at the ESHRE annual meetings in 2017 in Geneva (analysis of qPCR plots compatible with segmental aneuploidies and/or chromosomal mosaicism) and in 2018 in Barcelona (comprehensive analysis of blastocyst re-biopsies after qPCR-based aneuploidy testing).

In 2016 and in 2017, he obtained a grant from the University of Rome “Sapienza” for the project “Secreted miRNAs in the human blastocyst spent culture media: messengers of a dialogue between the embryo and the endometrium. A novel possibility to identify non-invasive biomarkers of reproductive competence”.

He is reviewer for several Journals in the field of reproductive medicine.

He is regularly registered in the ESHRE, in the SIERR (Italian society of embryology, research and reproduction) and in the SIFES (Italian society of fertility and sterility).

Since 2018, he is part of the scientific board of the SIERR.

In 2018, he was selected by the ESHRE as part of a working group to update the recommendations for embryo biopsy procedures in IVF.

He is Author or co-Author of more than 30 papers in international journals, book chapters and several abstracts at national and international meetings.