

Prof. Tiziana A.L. Brevini

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| Prof. Tiziana A.L. Brevini | tiziana.brevini@unimi.it | Embryology, Oocyte maturation, Embryo culture, Cryobiology, Stem cells |
| Prof. Fulvio Gandolfi | fulvio.gandolfi@unimi.it | Embryology, Oocyte maturation, Embryo culture, Cryobiology, Stem cells |
| Dr. Georgia Pennarossa | georgia.pennarossa@unimi.it | Stem cells, Embryo culture |
| Dr. Sara Maffei | sara.maffei@unimi.it | Oocyte maturation, Cryobiology |

4. Research profile

Tiziana A.L. Brevini is Associate Professor of Anatomy and Embryology at the University of Milan, Italy. Her scientific activity is addressed to the understanding of different aspects related to proliferation and differentiation process, gametogenesis and embryo development and is documented by over 160 publications. Common denominator is the study of cell replication and differentiation in different models involving both morphological observations as well as molecular approaches. Main area of her research are studies addressed to the understanding of embryo and stem cell biology, with an interest for the effect of environmental challenges on gene expression regulation. Prof. Brevini is also directly involved in dissemination programs aimed at the information of non specialized people as well as Authorities and Policy makers of the scientific results available at present and their possible impact/usefulness.

5. Key technologies and tools

Oocyte maturation, Activation/IVF, Embryo culture, Follicle culture, Stem cell derivation, culture and differentiation, Conventional and directional freezing, RT-PCR, Southern, Northern and Western Blotting, Immunohistochemistry, Immunocytochemistry, Fluorescent and confocal microscopy, siRNA

6. Selected publications (max. 5)

Characterization of the Constitutive Pig Ovary Heat Shock Chaperone Machinery and Its Response to Acute Thermal Stress or to Seasonal Variations. Pennarossa G, Maffei S, Rahman MM, Berruti G, **Brevini TA**, Gandolfi F. Biol Reprod. 2012 Sep 26. [Epub ahead of print]

Centrosome Amplification and Chromosomal Instability in Human and Animal Parthenogenetic Cell Lines. **Brevini TA**, Pennarossa G, Maffei S, Tettamanti G, Vanelli A, Isaac S, Eden A, Ledda S, de Eguileor M, Gandolfi F. Stem Cell Rev. 2012 Jun 2. [Epub ahead of print]

Isolation, characterization and differentiation potential of cardiac progenitor cells in adult pigs. Vanelli A, Pennarossa G, Maffei S, Galvez BG, Cossu G, Rahaman M, Gandolfi F, **Brevini TA**. Stem Cell Rev. 2012 Sep;8(3):706-19.

Effects of pre-mating nutrition on mRNA levels of developmentally relevant genes in sheep oocytes and granulosa cells. Pisani LF, Antonini S, Pocar P, Ferrari S, **Brevini TA**, Rhind SM, Gandolfi F. Reproduction. 2008 Sep;136(3):303-12

Aroclor-1254 affects mRNA polyadenylation, translational activation, cell morphology, and DNA integrity of rat primary prostate cells. Cillo F, de Eguileor M, Gandolfi F, **Brevini TA**. Endocr Relat Cancer. 2007 Jun;14(2):257-66.