



Mario Cimmino

Home : Via Aldo Moro 183, 80049, SOMMA VESUVIANA, Italy

Email: cimminomario97@gmail.com **Phone**: (+39) 3512173816

LinkedIn: www.linkedin.com/in/mario-cimmino-3651232a2

Gender: Male **Date of birth**: 21/07/1997 **Nationality**: Italian

WORK EXPERIENCE

[Current] **PhD student in Reproductive Biology**

IVF Red

City: Napoli | **Country**: Italy

Research in the field of microfluidics in the selection of spermatozoa to be used in in vitro fertilization techniques.

[10/2021 – Current] **Biology tutor**

Science and Human idea APS

City: Sant'Anastasia | **Country**: Italy

Organization of classes and individual courses relating to the major macro areas of Biology.

[22/02/2024 – 30/08/2024] **Voluntary Internship in Reproductive Biology Laboratory**

City: Napoli | **Country**: Italy

EDUCATION AND TRAINING

[2016 – 2021] **Bachelor's Degree in General and Applied Biology**

University of Naples Federico II www.unina.it

City: Napoli | **Country**: Italy

[09/2021 – 02/2024] **Master's Degree in Biology curriculum Reproduction and Differentiation**

University of Naples Federico II www.unina.it

City: Napoli | **Country**: Italy | **Final grade**: 110\110 con Lode | **Thesis**: Advanced Morpho-Kinetic Analysis to improve the efficiency of "Elective Single Embryo Transfer" in assisted reproduction

[01/2022 – 10/2022] **Specialization course in Biology and Technologies of Assisted Reproduction**

University of Naples Federico II www.unina.it

City: Napoli | **Country**: Italy

CONFERENCES & SEMINARS

[15/12/2023 – 16/12/2023] **Advanced theoretical and practical course vitrification of oocytes, embryos, ovarian tissue.**

Genesis Day Surgery, Caserta

[17/10/2022 – 19/10/2022] **Reproductive Medicine and In Vitro Fertilization techniques.** Andros clinic, Palermo

[26/10/2023 – 14/11/2023] **VII Course in Semiology and Andrology** Centre Caran, Caserta

[14/03/2024 – 16/03/2024] **X SIERR national congress: IVF future** Roma

[2024 – 2024] **Medically Assisted Procreation: a constantly evolving field. Pre-congress course**
69th GEI-SIBSC congress
Napoli

Research and development in PMA: from the Biotech product to the evidence of clinical results.

Merk, Guidonia

Vitrification Workshop CooperSurgical. Vis Procreandi (Napoli)

DIGITAL SKILLS

My Digital Skills

Excellent command of Microsoft Office (Word, Excel, Outlook) | google drivers and docs | Adobe (Photoshop, InDesign, Dreamweaver) | Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced | ImageJ / Fiji image analysis

LANGUAGE SKILLS

Mother tongue(s): Italiano

Other language(s):

Inglese

LISTENING B1 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

PUBLICATIONS

[2024] [**Individually Cultured Bovine Zygotes Successfully Develop to the Blastocyst Stage in an Extremely Confined Environment**](#)

The possibility of detecting the developmental competence of individually cultured embryos through analysis of spent media is a major current trend in an ART setting. However, individual embryo culture is detrimental compared with high-density group culture due to the reduced concentration of putative embryotropins. The main aim of this study was to identify an individual culture system that is not detrimental over high-density group culture in the bovine model. Blastocyst rates and competence were investigated in a conventional (GC) group, semi-confined group (MG), and individual culture (MS) in a commercial microwell device. Main findings showed that: (1) individual embryos can be continuously cultured for 7 days in ~70 nL microwells (MS) without detrimental effects compared with the GC and MG; (2) MS and MG blastocysts had a reduced number of TUNEL-positive cells compared to GC blastocysts; (3) though blastocyst mean cell numbers, mitochondrial activity, and lipid content were not different among the three culture conditions, MS blastocysts had a higher frequency of small-sized lipid droplets and a reduced mean droplet diameter compared with GC and MG blastocysts. Overall, findings open the way to optimize the development and competence of single embryos in an ART setting.