

Introduction

Infertility affects 8 to 12% of couples globally, with IVF being a common treatment option, yet not suitable for certain patients such as those with high AFC or PCOS¹. Mohammad Ali Taheri introduced T-Consciousness Fields (TCFs), which are subcategories of a networked universal internet called the Cosmic Consciousness Network (CCN)². These fields have been explored through reproducible experiments and offer insight into T-consciousness as a non-physical entity. Transmitted information via TCFs has the potential to influence the behavior of treated samples. This study investigates the effects of TCFs on the *in vitro* maturation of mouse oocytes (IVM), mitochondrial membrane potential, and embryo development through IVF, conducting two separate

Methods

TCFs Application: The samples were subjected to TCFs treatment according to protocols regulated by the COSMOintel research center (www.cosmointel.com). The current experiment was carried out using a double-blind method, with lab technicians unaware of TCFs theory and the individual applying the treatment unaware of the study's details. In this research, TCFs were applied at the time of the beginning of each experiment to the immature oocytes (IVM experiment) and mature oocyte and sperms system (IVF experiment). **IVM experiment:** There were five experimental groups for immature oocytes: 1) They were placed in a culture medium containing MEM- α , 75 mIU/ml rFSH, 7.5 IU HCG and FCS 5%. 2) They were put in the mentioned culture medium with inducing

Methods (cont.)

granulosa cells (Positive control). Three other cultures were under TCF 1,2 and 3. **IVF experiment:** IVF procedures followed previous protocol, conducted in 50 μ l drops of KSOM under mineral oil. Sperm suspension, pre-incubated for capacitation, was introduced to collected oocytes, resulting in a final motile sperm. The combined sperm-oocyte suspension was then incubated for 4-6 hours, and the fertilization rate was assessed by counting the number of 2-cell embryos 24 hours post-completion of *in vitro* fertilization.

Results

Experimental Groups*	GV No. % \pm SD	GVBD No. % \pm SD	MII No. % \pm SD	MII+GVBD % \pm SD
Control (-)	43 \pm 9	20 \pm 0	37 \pm 9	57 \pm 9
Control (+)	23 \pm 9	17 \pm 5	60 \pm 8	77 \pm 9
TCF1	10 ^a \pm 8	13 \pm 5	77 ^b \pm 12	90 ^a \pm 8
TCF2	13 ^a \pm 9	29 \pm 9	58 \pm 6	87 ^a \pm 9
TCF3	7 ^a \pm 9	16 \pm 4	78 ^b \pm 6	93 ^a \pm 9

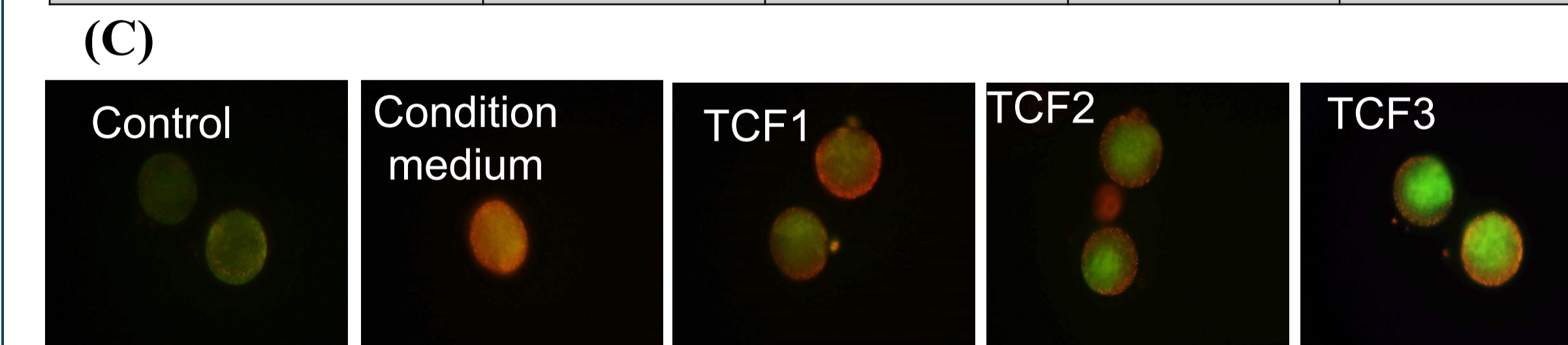
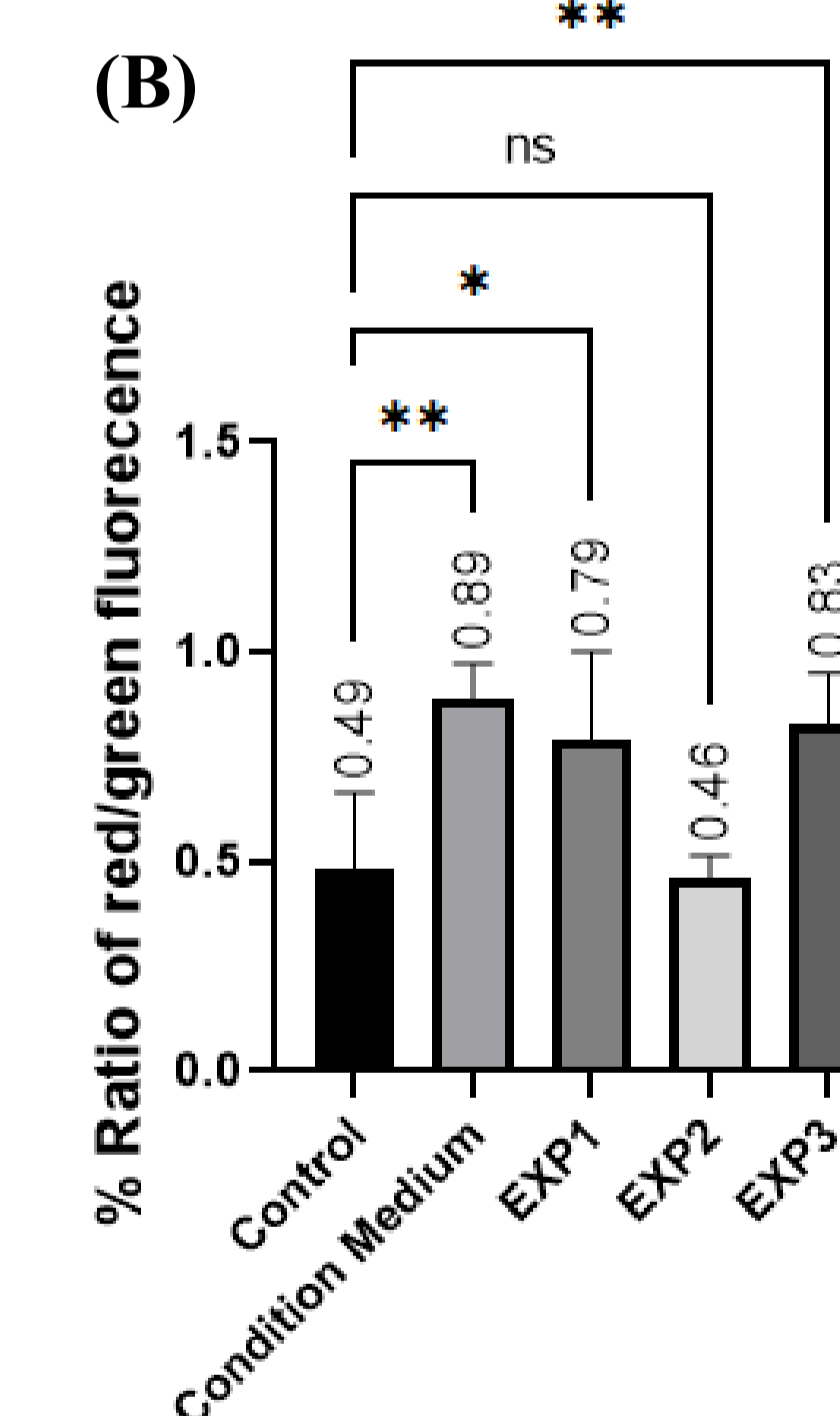


Figure 1. (A) The changes in meiotic stages for *in vitro*-cultured mouse oocytes. * Initial oocyte No. in all groups was 60. GV: germinal vesicle, GVBD: germinal vesicle breakdown, MII: metaphase II, TCFs: T-Consciousness Fields. All values shown by mean \pm standard deviation a: difference with the negative control p-value<0.05, and b: p-value<0.01. **(B)** $\Delta\Psi_m$ values in the control positive (Conditional Medium), and under the influence of TCF1 (EXP1), TCF2 (EXP2), TCF3 (EXP3), and the negative control (Control). **(C)** The mitochondrial membrane potential ($\Delta\Psi_m$) was visualized through JC-1 staining in the MII stage *: p-value<0.05, **: p-value<0.01.



Results (cont.)

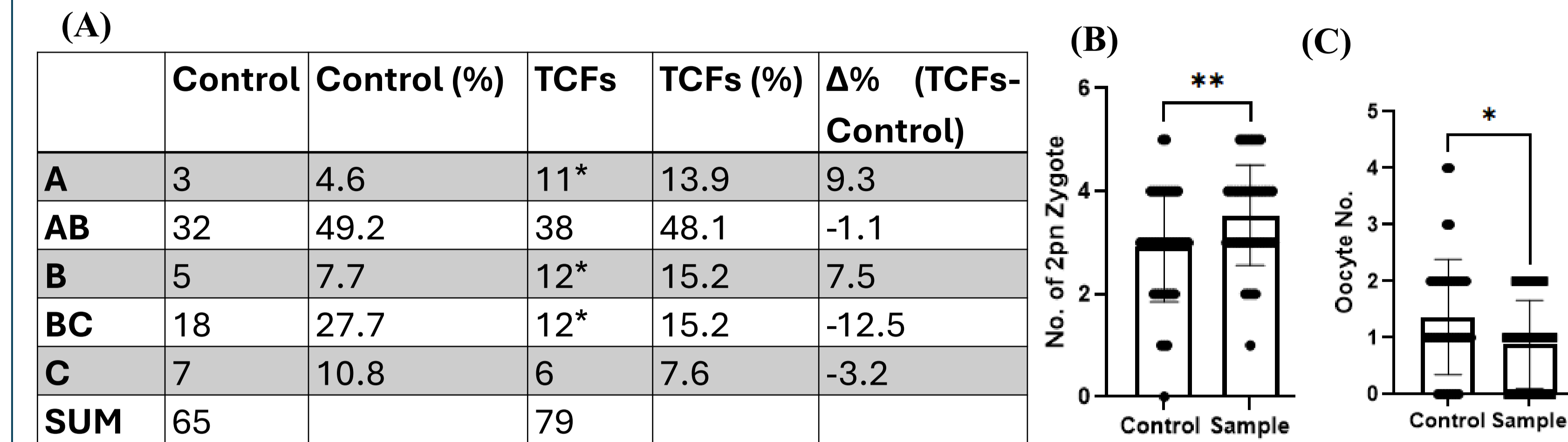


Figure 2. (A) The percentage of different grades of embryos in control and samples under TCFs treatment. *: difference with the control group p-value< 0.05. The number of 2PN zygotes **(B)** and unfertilized oocytes **(C)** in samples under TCFs treatment and control. **: p-value=0.0090, *: p-value=0.0172.

Conclusion

- The impact of TCFs on IVM and IVF is explored for the first time.
- IVM results showed improved oocyte maturation with increased mitochondrial membrane potential.
- IVF experiments demonstrated that TCF treatment boosts the likelihood of successful zygote formation.
- It also enhances embryo quality, suggesting potential benefits of TCF exposure.
- Further research is suggested to validate the efficacy of TCFs, including exploration into their effects on ICSI and *in vivo* mouse embryo development.

References

1. Vander Borgh, M., & Wyns, C. (2018). Fertility and infertility: Definition and epidemiology. *Clinical biochemistry*, 62, 2–10
2. Taheri, M. A., Torabi, S., & Semsarha, F. (2022). The Effect of Taheri Consciousness Fields on the ATP Production in HEK-293 Cell Line by Measuring Luciferase Activity. *Journal of Cosmointel*, 1(9), 34-55.

