Effects of T-Consciousness Fields on Cell Cycle Progression and ATP Production in Raji and HEK-293 Cell Lines under Microgravity and Earth's Gravity Conditions

THE UNIVERSITY OF ARIZONA Center for Consciousness Studies

Zahra Hajebrahimi[1], Mohammad Ali Taheri[2], Sara Torabi[3], Farid Semsarha[4]

1. Independent Aerospace Researcher, Tehran, Iran; 2. Sciencefact R&D Department, Cosmointel Inc. Research Center, Ontario, Canada; 3. Department of Plant Biology, School of Biology, College of Sciences, University of Tehran, Tehran, Iran; 4. Institute of Biochemistry and Biophysics (IBB), University of Tehran, Tehran, Iran

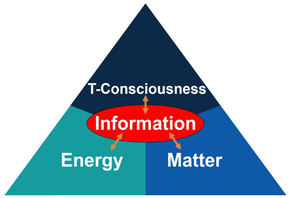
Email: info@cosmointel.com

Introduction

In the 1980s, Mohammad Ali Taheri introduced consciousness as a fundamental element of the universe from which information, matter and energy spring forth. There are various T-Consciousness Fields (TCFs) with different functions. According to Taheri, when a sample is exposed to TCFs, its behavior changes as a result of receiving information [1].

The aim of this study was to Investigate the effects of TCFs on cell lines in altered gravities.

- This study allows us to determine whether the influence of these fields is gravity-dependent or not.
- It can provide an opportunity to explore the alleviative effects of TCFs on cells under microgravity (MG) stress.



Relationship between information, T-Consciousness, matter, and energy

Methods

This entire experiment was carried out using a double-blind method, with lab technicians unaware of FCF theory and the individual applying the treatment unaware of the study's details. Two separate experiments were conducted:

Experiment 1		
Cell line	Clinorotation treatment	Time
Raji	30 rpm	48 hours

Experiment 2		
Cell line	Clinorotation treatment	Time
HEK-293	30 rpm	24 hours

Methods (Cont.)

- We used flow cytometry to determine cell cycle stages.
- ATP production of HEK-293 cell line was evaluated by measuring the luciferase enzyme activity.

Picture of the clinostat provided in this study and the Raji samples under microgravity or 1G condition.

Results

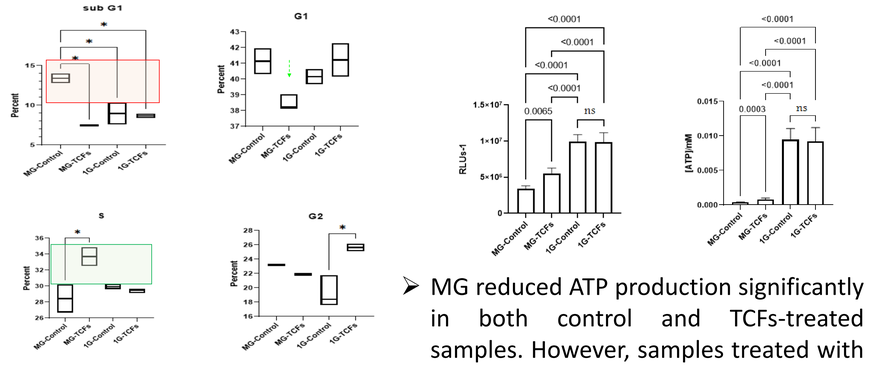
- In Raji cell line, the stress of MG significantly induced the Sub-G1 phase and reduced the percentage of G1 and S phases compared to 1G condition. However, the behavior of FCF-treated samples remained almost unchanged.
- While MG significantly reduced the cell population, FCF-treated cells under MG showed a similar population as samples in 1G.

Groups	Samples description	The average percentage of live cells in selected gate	Sub G1	G1	S	G2	Super G2
FCF-/MG	MG condition without FCF	64$	42.10****±2.44	20.33***±0.80	28.27**±0.92	11.17±1.88	0.70±0.31
FCF+/MG	MG condition with FCF	78	6.29±0.79	47.78±0.05	40.85€±1.96	10.17±1.13	0.57±0.33
FCF-/1G	1G condition without FCF	77	6.90±2.90	47.78±6.37	39.12€±1.61	9.10±1.44	0.41±0.02
FCF+/1G	1G condition with FCF	78	6.79±1.41	42.66±1.79	42.21#±2.43	11.62±1.61	0.59±0.22

MG: microgravity; 1G: Earth's gravity. ****: difference with other experimental groups p-value<0.00001, ***: difference with other experimental groups p-value<0.0001, **: difference with TCF-/1G p-value<0.001. $: difference with other experimental groups p-value<0.00001, #: difference with TCF-/MG p-value<0.0001, €: difference with TCF-/MG p-value<0.0001,

Results (Cont.)

- In HEK-293 cell line, MG caused a notable rise in the sub-G1 phase compared to the 1G. However, TCFs prevented this impact of MG on this portion of the cell cycle.
- The S phase in TCFs-treated cells was significantly higher compared to their clinorotated counterparts.
- Under Earth's gravity, TCFs increased the G2 phase compared to the control.



MG+: microgravity condition; 1G-: Earth's gravity; TCFs: T-Consciousness Fields; *: p-value<0.05

- MG reduced ATP production significantly in both control and TCFs-treated samples. However, samples treated with TCFs showed twice the ATP levels compared to the control.

Conclusions

- TCFs altered sample behavior in both normal gravity (1G) and microgravity (MG) conditions. This indicates that TCFs operate independently of gravity.
- In this study, TCFs treatment inhibits the adverse impact of MG.
- It appears that the application of these fields may lead to the transfer of information that compensates for the absence of gravity.

References

1. Taheri, M. A. (2013). Human from Another Outlook. Interuniversal Press. ISBN 9781939507006 and ISBN 1939507006

COSMOintel