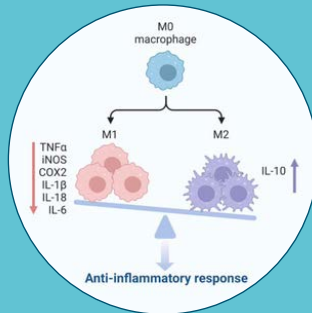




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5 STEPS OF QMR REGENERATIVE PROCESS



1



ANTI-INFLAMMATORY PROCESS

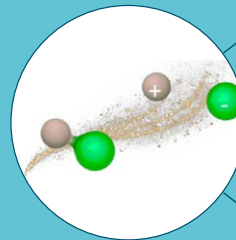
QMR reduces local inflammation by polarizing M1 macrophages towards M2 macrophages (the anti-inflammatory ones)

RESONANCE EFFECT

The energy package of QMR is capable of changing intra and extracellular ions, altering the transmembrane potential of stem cells and macrophages.

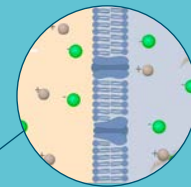


2



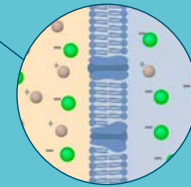
Phase 1

Breaks bonds without heat thanks to the resonance effects



Phase 2

Modification of ions concentration in the intracellular/extracellular matrix of the cells



Phase 3

Generate significant changes in transmembrane potential of the target cells



3

STEM CELLS REPLICATION

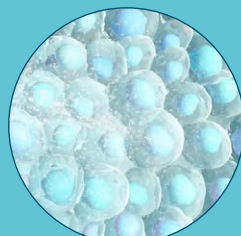
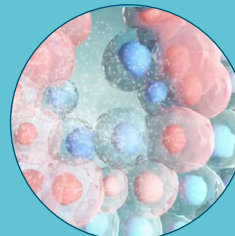
The change in the transmembrane potential of the stem cells induces their replication. The stem cell regenerates asymmetrically, creating two stem cells named mother and daughter.

REGENERATIVE PROCESS

Through the immune system, the daughter goes to regenerate tissue of non-functional ocular structures.



4



5

NATURAL REGENERATION COMPLETED

The regenerated tissue has the same functional characteristics as the tissue before the damage.

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QMR Biological Safety

Scientific Evidence In Vitro

Tested Cell Lines:

- Human fibroblasts MRC-5 (differentiated cells) [2]
- Mesenchymal stem cells (MSC) [1]
- Adipocytes, osteocytes, chondrocytes (differentiated cells) [2]
- Astrocytoma cells (tumor cells) [1]
- Glioblastoma cell lines [1]
- Endometrial adenocarcinoma cells [3]

Analyzed Parameters:

- Cell morphology
- Viability and mortality
- Cell proliferation rate
- Differentiation potential
- Cell cycle
- Apoptosis
- Karyotype
- Genomics and proteomics

Key Results:

- No karyotype variations. In vitro analyses confirmed the absence of associated genotoxic effects [2,4].
- No alterations in morphology, viability, cell cycle, or proliferation in treated cells [2,3,4].
- QMR treatment does not induce apoptosis or alter the differentiation of mesenchymal stem cells [2,4].
- In glioblastoma tumor cells cultured in vitro, QMR showed a cytostatic effect and enhancement of the effectiveness of chemotherapeutic treatment (e.g., temozolomide in glioblastomas), and reduced cell migration in more aggressive cell types [1].

[1] Selective cell cycle arrest in glioblastoma cell lines by quantum molecular resonance alone or in combination with temozolomide D. Catanzaro et al

[2] In-vitro analysis of Quantum Molecular Resonance effects on human mesenchymal stromal cells. S.Sella et al.

[3] In Vitro Gene Expression Profiling of Quantum Molecular Resonance Effects on Human Endometrium Models: A Preliminary Study A. Grassi et al.

[4] EFFECTS OF MOLECULAR QUANTUM RESONANCE IMAGING ON CULTURED HUMAN CELLS: SAFETY AND EFFICACY OF TREATMENT S. Sella