

Cellular activation through contact and orally ingested honey with high polarization (wave) achieved by blending monofloral nectar

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Summary

[Introduction]

Honey effects on maintaining beautiful skin, hematopoiesis, etc. have been reported. Meanwhile, the unique HP-SPR (high-precision surface Plasmon resonance) method enables the transcription measurement of polarization (waves) and the activity measurement of intracellular mitochondria. In this study, the effects of honey contact were examined from the transcription of polarization, and the effects of oral intake were examined from the activation of mitochondria in skin fibroblast (dermis) cells. The results were compared between hyperpolarized honey and a commercial product.

[Methods]

Blends of monofloral honey from Yamaguchi, Japan, with maximum polarization transfer were used as hyperpolarized and commercial products as samples. PBS was placed inside the glass ring, an insulator on the HP-SPR sensor, and a 120-fold diluted sample was placed outside the ring and polarization (wave) transfer was measured. For oral intake, honey was digested in the stomach and duodenal step with enzymes, etc., and samples with a molecular weight $\leq 10,000$ were used. Mitochondrial polarization changes were measured by HP-SPR-3D assay using human skin fibroblast HFB16d.

[Results]

Hyperpolarized honey showed a very high polarization transfer capacity, about 13 times higher than the commercial product at 400 seconds. Water in the vicinity contacted by hyperpolarized honey is polarized even through insulators, and is expected to activate the throat, intestines, skin, hair, scalp, and other parts of the body. On the other hand, oral intake of hyperpolarized honey showed a concentration-dependent polarization of mitochondria, reaching approximately 3.5 times higher at 1.0 mg/mL than at 0.5 mg/mL. In contrast, at 1.0 mg/mL of the commercial product, mitochondrial polarization was only about one-fifth that of hyperpolarized honey.

[Conclusions]

Hyperpolarized honey is expected to prevent and improve wrinkles (anti-aging) by activating skin fibroblasts (dermis) cells, and may also contribute to the activation of various types of cells through contact and ingestion.

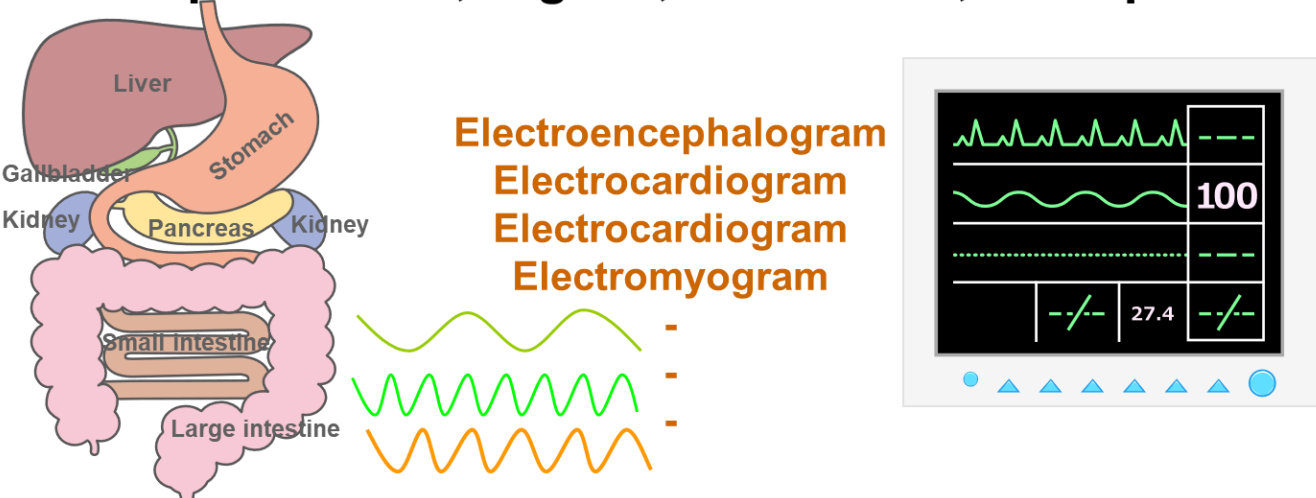
Introduction

What is wave (energy)?

If we think of waves in scientific terms,

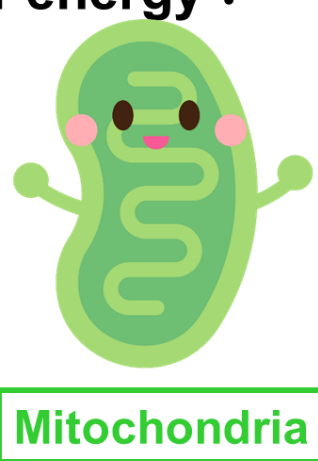
✓ Physically, they are waves of vibrating energy, which are also present in the elements.

✓ Biologically, there are energy cycles that are unique to cells, organs, individuals, and species.



• Highs, lows, and cycles of biological energy : derived from mitochondria

• Wave: Changes in both animals and plants depending on their condition
→ Resonance between my energy vibration and the energy vibration of the object



Mitochondria

Food: source of energy and has vibrations

Wave of food

- Body's energy is not fulfilled.
- Unable to be active.
- Negative thoughts arise.
- Fortune



Honey

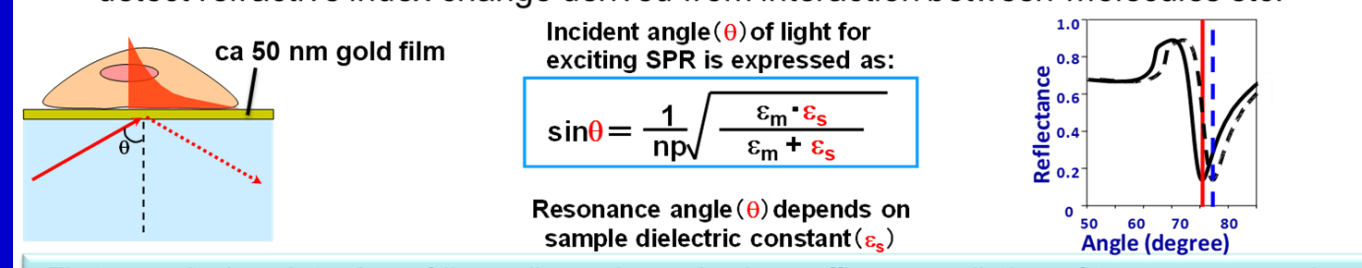
- Production began by beekeeping in Egypt by at least 3,000 B.C.
- Perfect food containing carbohydrates such as fructose, organic acids such as gluconic acid, vitamins, minerals, amino acids, polyphenols, and enzymes
- Effective in alleviating coughs and sore throats, regulating intestines, hematopoiesis, preventing diabetes, hair growth, preventing graying of hair, etc.
- Used by Cleopatra as a face pack to maintain beautiful skin
- Honey has high wave energy
- Germany: High wave energy in flowers → wave energy transfer to water → therapy



HP-SPR

High Precision-Surface Plasmon Resonance (HP-SPR) Patented

– One of laser spectroscopic methods, Non-label and real-time analytical method to detect refractive index change derived from interaction between molecules etc. –



First quantitative detection of live cell reaction – Apply to efficacy prediction of target compounds –

Beam mold | Chip design | Algorithm | Temp control | Low Vibration

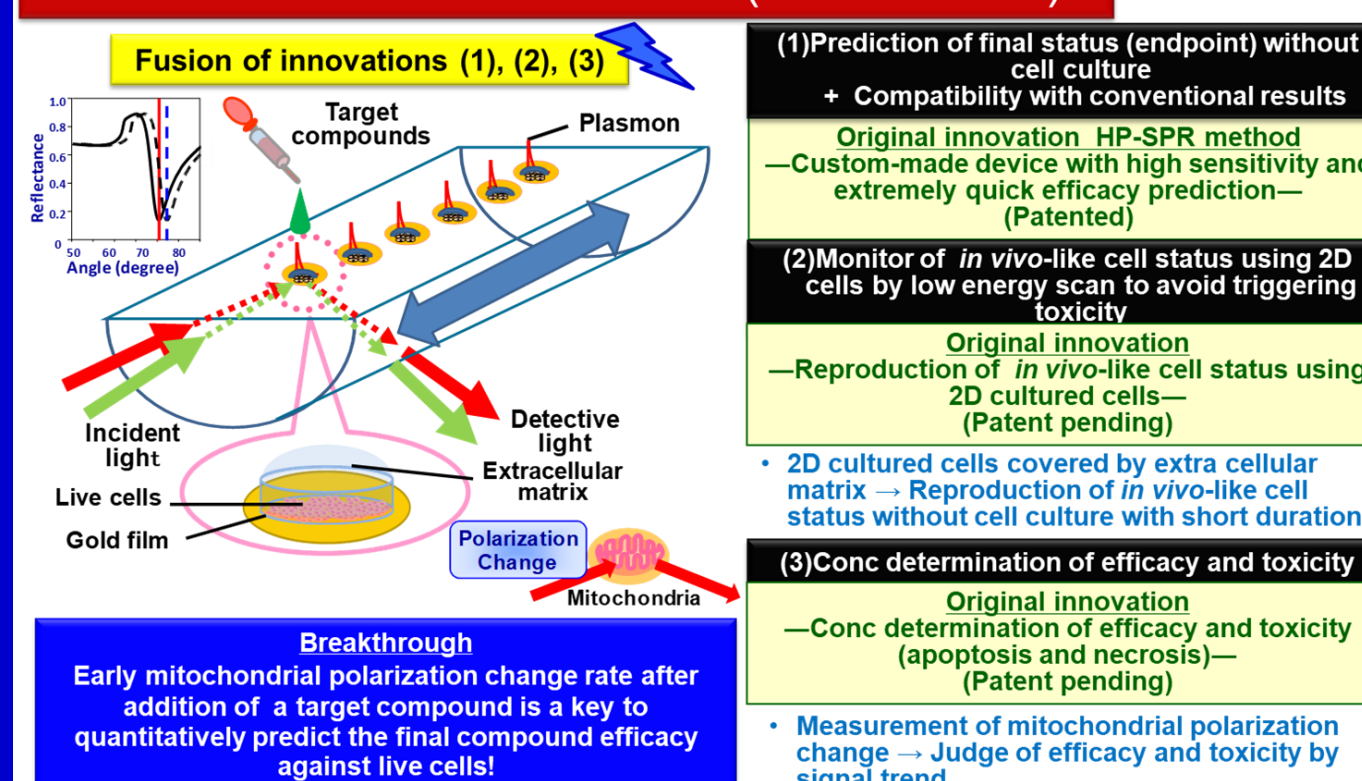
10K to 1M times higher sensitivity compared to commercial instrument!

Cell reaction is dielectric constant of a few 100 n / s.

Cell destiny (final activity) can be monitored by HP-SPR angle!

HP-SPR-3D culture method

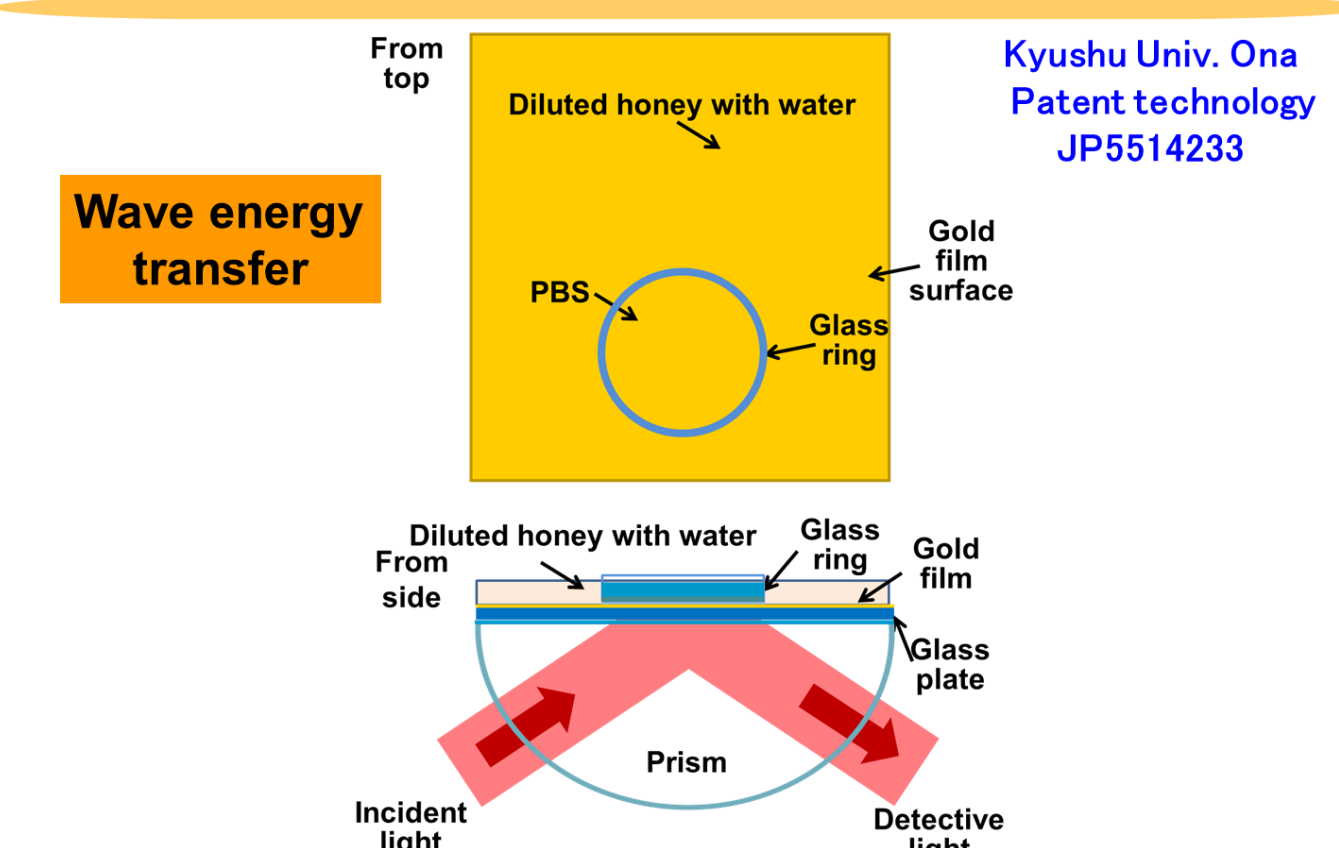
HP-SPR-3D culture method (HP-SPR-3D)



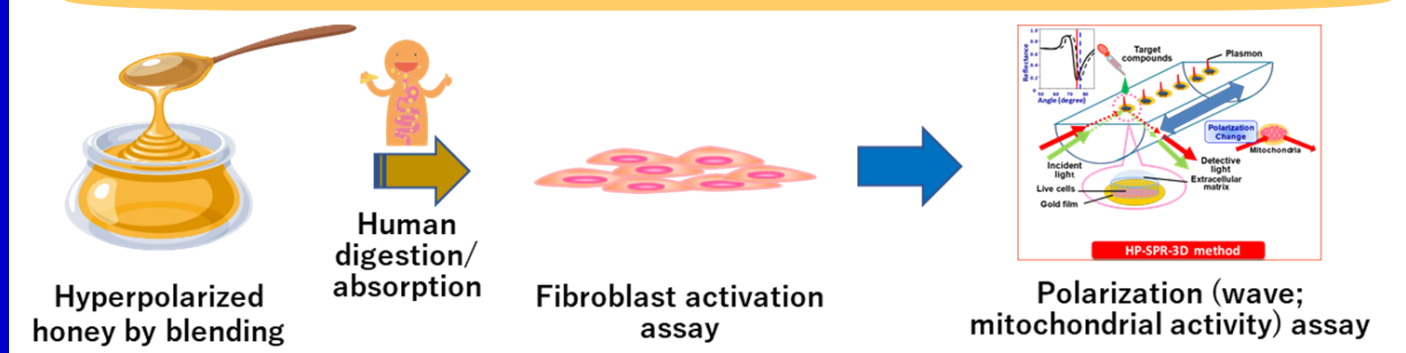
Breakthrough
Early mitochondrial polarization change rate after addition of a target compound is a key to quantitatively predict the final compound efficacy against live cells!

Method

Hyperpolarized honey by blending monofloral honey – Wave energy transfer



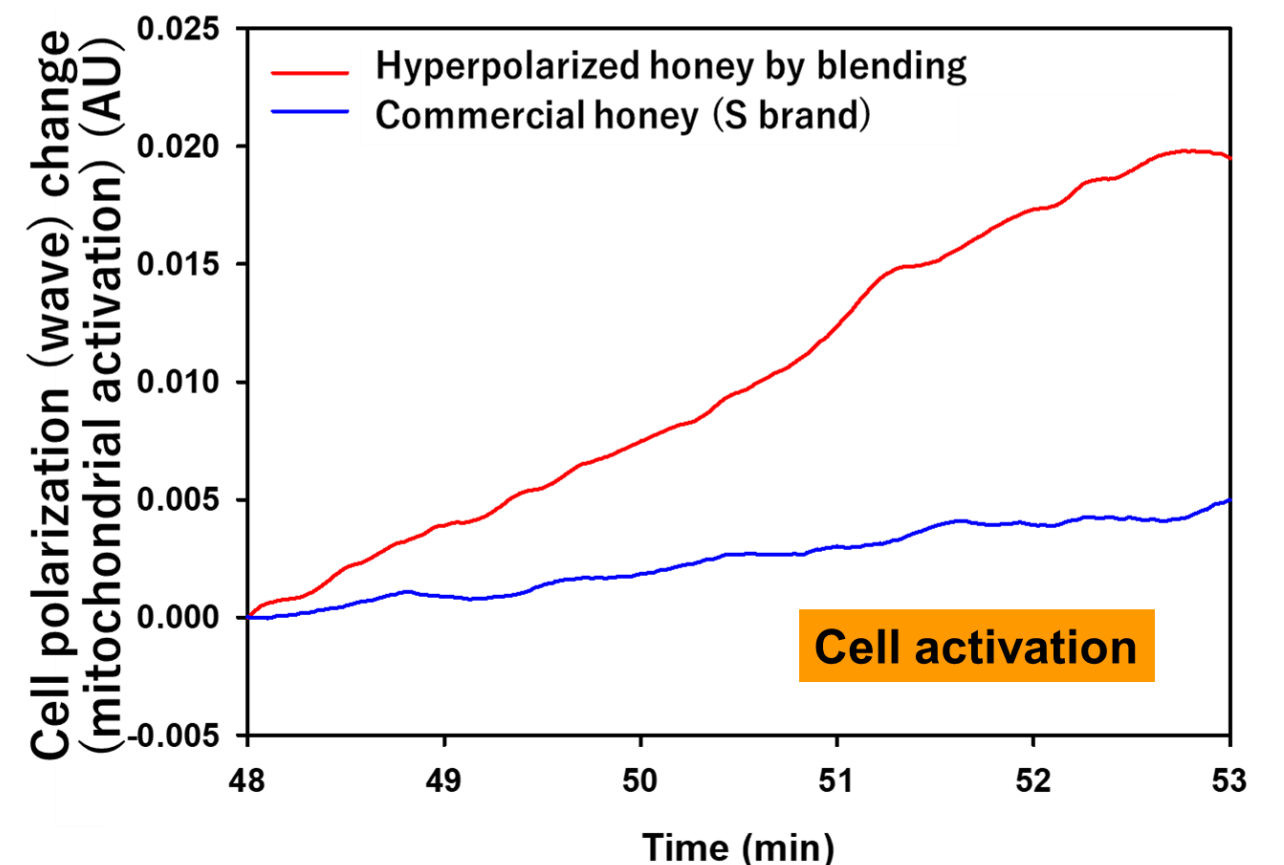
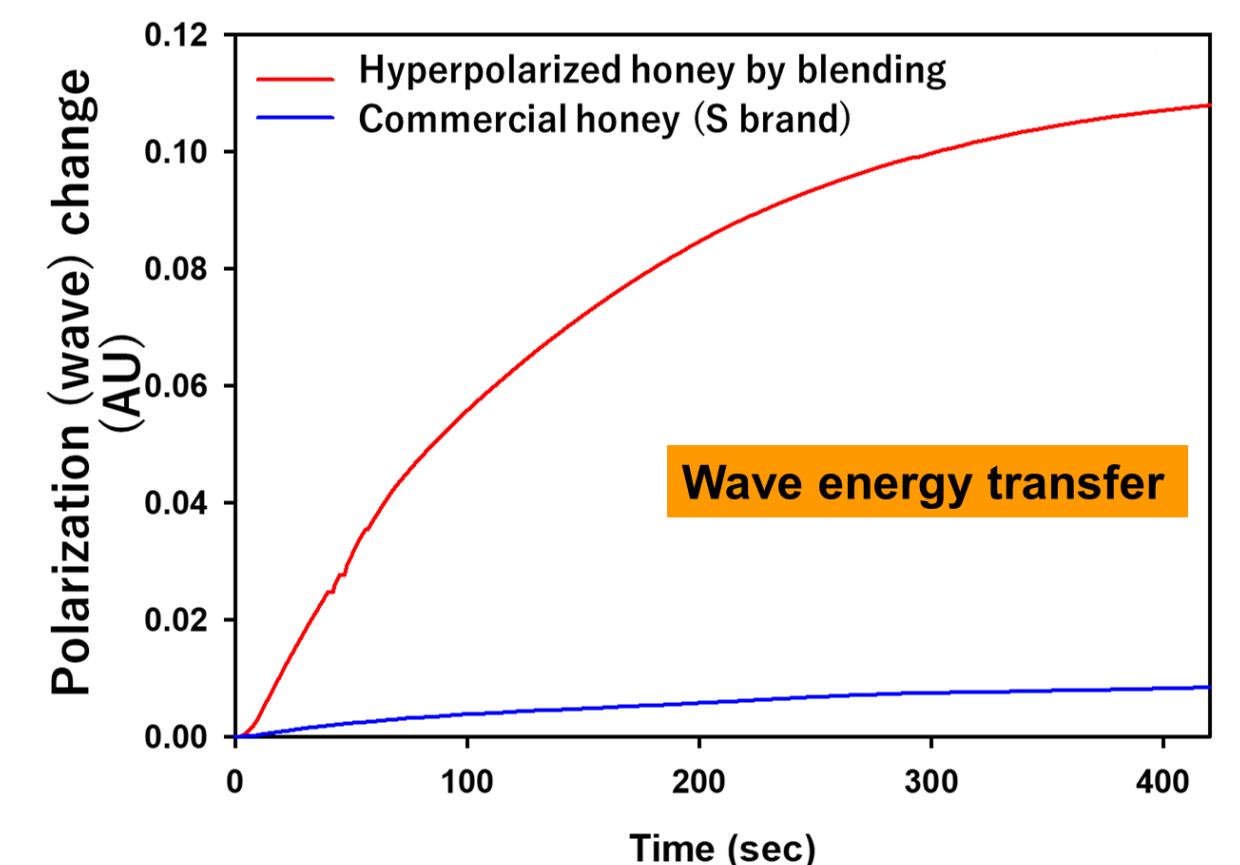
Hyperpolarized honey by blending monofloral honey – Cell activation



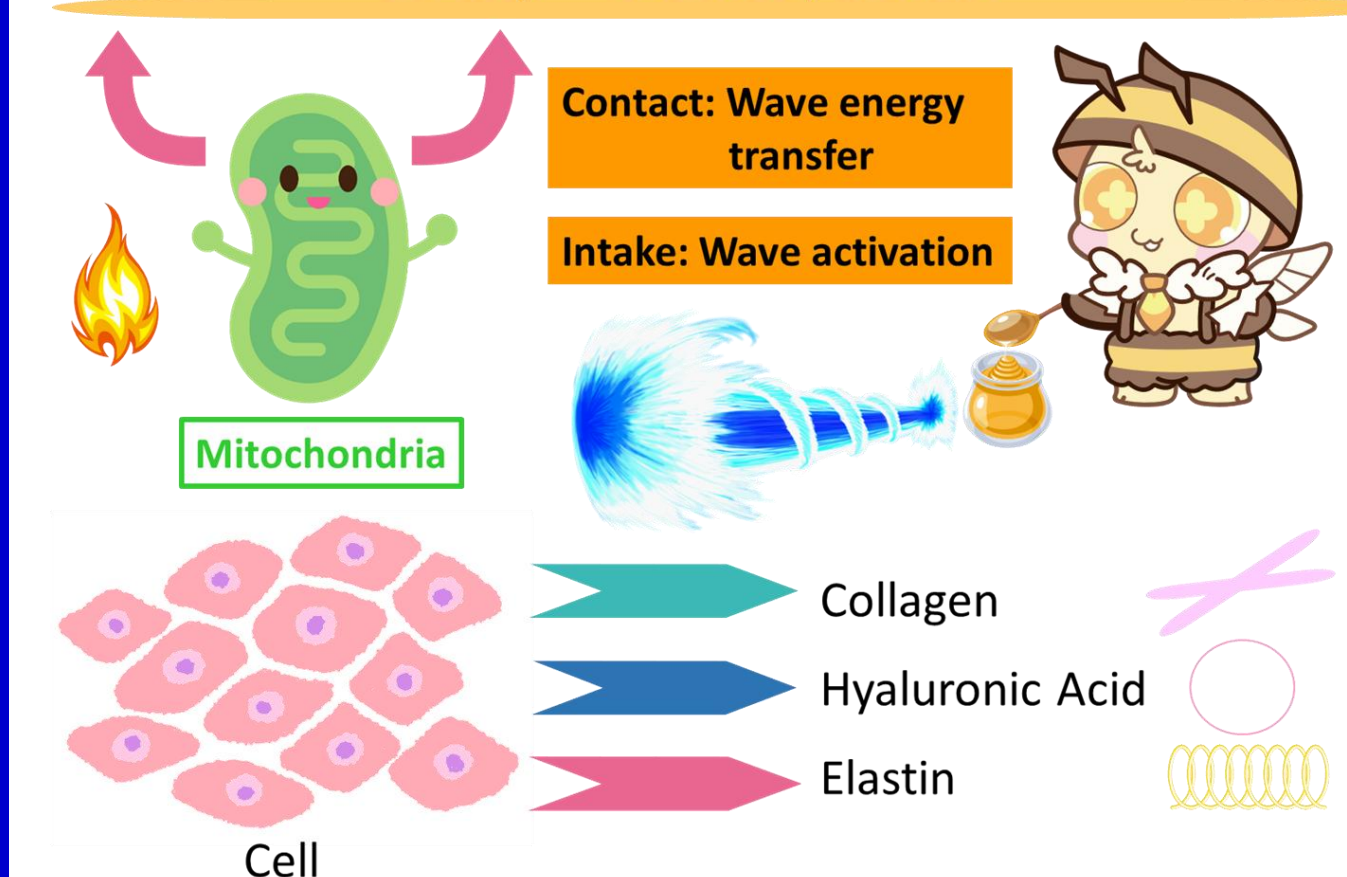
- Stomach step
 - Pepsin
- Duodenum step
 - Pancreatin + Bile acid extract
- Intestinal step
 - MW of 10,000 or less



Results



Hyperpolarized honey by blending monofloral honey – Contact, Intake



Conclusions

- Hyperpolarized honey energetically activates the body through contact and by eating it.
- This is expected to raise your wave energy and make you more energetic, and also improve your fortune.

