

The future music **Hypersonic sound** to revitalize the mind and body

Environments rich in nature contain sounds with high frequencies ranging from 20 kHz to 100 kHz.

This sound is inaudible to the ear but travels to the brain through the surface of the skin, activating the mind and body.

What is Hypersonic sound?



Music and environmental sounds
(heard through the ears)

+



High-frequency sound
from 45k to 100kHz
=Hypersonic
(transmitted from the skin to the brain)

**A sound that has these two components
is a hypersonic sound.**



The hypersonic effect
that regulates and revitalizes the mind and body
are triggered to.

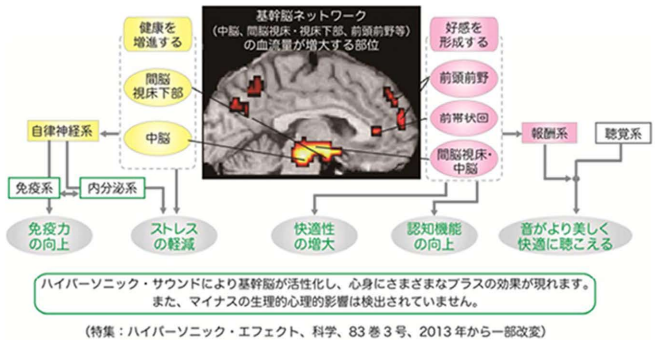
From the website of
the Ministry of the Environment:

(National Diet Library Archive)

<https://warp.ndl.go.jp/info:ndljp/pid/14030989/www.env.go.jp/nature/nats/sound/index.html>



・ハイパーソニック・サウンドとは、人間の耳に聴こえる周波数の上限を超えて複雑に変化する超高周波を含む音。
・私たちの脳機能を高め、ハイパーソニック・エフェクトと呼ばれるポジティブな効果（健康増進、やすらぎ、好感形成）を心身にもたらします。
・聴こえる心地よい音と一緒に、聴こえない超高周波を体の表面から受けることにより基幹脳の血流が増加して、ハイパーソニック・エフェクトが得られます。



The hypersonic effect

Effect as music :

- Sounds good and emotional (secretes the happy hormone dopamine.)

Health effects :

- Promotes relaxation (induces alpha waves)
- Stress relief (regulates the autonomic nervous system and stabilizes the endocrine system)
- Activates the immune system and suppresses the onset of disease (suppresses the onset of disease, cancer, etc.)
- Improve depression and cognitive function (proven in music box therapy, etc.)

Hypersonic-rich music



cembalo



music box



shakuhachi



biwa



gamelan

Less hypersonic music



piano



band



orchestra

till now
↓ ↓ ↓ ↓
from now

**We are now able to create
hypersonic sounds in popular genres.
We will continue to create
more and more hypersonic sounds.**



piano



band



orchestra

For more information, please access the "More Information" URL below.

[TEAM EXPO 2025]Co-creation Challenge "Hypersonic instrument development"

More Information : <https://gsljp.com/gs/expo-hse/>

