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## Infrasound and vibration are suspected to lead to irregular information on the endothelial level

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Good day,

first I want to introduce myself.

I am a medical doctor, mainly in emergency rooms and intensive care, but I am specialized also in a part of the cardiovascular physiology of organisms, which is called *microcirculation*. In this field, I am scientific author and free scientist since about 8 years.

The microcirculation is an autotone system, self regulated, which supports e.g. energy and nutrients to cells, wherever they are needed.

I have been working in this field since 2004 and have witnessed the enormous progress in research in this area over the last 20 years. This also resulted in an essential book for Springer nature. Link: *The microcirculation and its meaning for all live*. <https://link.springer.com/book/10.1007/978-3-662-66516-9>

*This is the reason, why I was able to recognize the symptoms of ill people and animals* nearby big windpower installations (biogas and block heating plants), as signs of energy loss and deficits in some *endothelial functions*. The endothelial cells as a layer around all capillaries and vessels play a big role, not only in the regulation of the width of vessels, but also in vital regulations such as blood pressure regulation, cell division, growth, embryology, regulation of inflammation and therefore also immunsystem and cancer defence.

The second major finding on microcirculation in recent years was the identification of *mechanosensors* on the *endothelial cells*, receptors that absorb physical forces and thus also sound. The 2021 Nobel Prize in Medicine was awarded for the discovery of PIEZO-channels, the most important group of mechano-sensors.

A direct consequence of this finding is that the *acoustic perception threshold via the ear*, which is still used as an effect parameter in Germany, for example, has become obsolete.

In this time, I was already in a scientific discussing group with scientists from different areas like Prof. Christian Vahl, who worked with isolated heart cells under influence of infrasound and registrated a power reduction of 20 % in his infrasound laboratory. The microcirculation also came into focus from this side as the affected membrane level.

The hypothesis that I was able to put forward in the two papers *is coherent and stringent*, and is supported both by the available international studies and the available histopathological evidence of the so-called VAD, vibroacoustic syndrome in people who are occupationally exposed to prolonged infrasound frequencies.

Even if the final scientific proof is still pending, the evidence of the statements is so high that a moratorium is urgently required for precautionary reasons to protect the population and animals until final scientific clarification. Please read the possible consequences in the conclusions of the papers.

*My Conclusion: The expansion of large wind turbines with very low infrasound frequencies means a threat to biodiversity as a whole. We have to realize that very low infrasound frequencies in chronic and impulsive impact are not compatible with the vascular regulation of all organisms (all living beings (mammals, fish, birds, crustaceans, insects, bees up to bacteria).*

In the attachment you will find an explanation of the Hypothesis, the Links to the peer reviewed papers a PDF due to the payment barrier for the second study.

Addendum: also marine systems esp. whales are threatened in their life due to properties of Hydroacoustics.

Please confirm receipt

You are welcome to contact me.

With Best Regards

Ursula Bellut-Staack, MD

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scientific author, free scientists

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#### 4 attachments



**The influence of low-frequency infrasound and vibration on living organisms 01.08.07.24-2.pdf**  
251K



**pdf Cap. Medical Research and its applications 05. Bellut-Staack\_2024\_BPR\_727.pdf**  
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