

# WORLD BRAIN CONGRESS

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## *Katrina Wendel-Mitoraj*

*BrainCare Oy, Finland*

### **Long-term epilepsy monitoring**

Sixty-five million people worldwide have epilepsy, but the treatment doesn't work for 20 million of them. Currently, no medical device exists for reliable, long-term, continuous outpatient monitoring of severe epilepsy. The current state-of-the-art is seizure diaries at home and video EEG recordings at the hospital. Our novelty is in developing and validating a subdermal implantable electroencephalogram (EEG) electrode that continuously records all subclinical and clinical seizure activity. Our technology is a game-changing twist on traditional surface, subdural, and cortical electrodes; it will redefine the measurement environment as a future novel implant technology by extending it beyond the clinic into the patient's real life. The electrode is the key element for long-term monitoring implants. Come and learn how our electrodes will benefit the patient, help with your measurement diagnostics, and provide you with data for your research.

### **Biography**

Katrina Wendel-Mitoraj is CEO and Founder of BrainCare Oy (Ltd). She obtained her BSc in Electrical Engineering and then worked for Samsung Austin Semiconductor (Austin, Texas, USA) as a photolithography engineer. After relocating to Tampere, Finland, she earned her doctorate in computational modeling of EEG electrodes. During her post-doctoral tenure, she designed and patented the electrode strips and developed the BrainCare concept. She negotiated and acquired for BrainCare Oy the intellectual property assets developed at Tampere University of Technology (Tampere, Finland). She strategically focused on bringing SOENIA™ Epilepsy Diary and Cloud as a first medical device compliant product to the market. Her current focus is bringing the novel electrode to the market.

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