

## Music and the Brain – Research and implications

Becoming a musician requires many years of dedicated training with an instrument or the voice. Improvements in musical skills can be assessed via observable changes in corresponding behaviors, such as improved motor control, richer sound production, and more sophisticated artistic expression. Although we tend to think in behavioral results, it is our brain that initiates and coordinates our movements and that integrates sensory feedback for improving our performance by associating actions with their sensory consequences. In this sense, it is our brain that makes the music – yet making music in turn also changes the brain. This interaction makes music an interesting topic for neuroscientists to learn more about how our brain controls our actions and how these actions improve how our brain works. A better understanding about how the brain interacts with music may help us to find ways for improving the way in which we learn. This talk will give you an overview about the fascinating field of music research in the brain and will discuss possible practical implications for musicians.