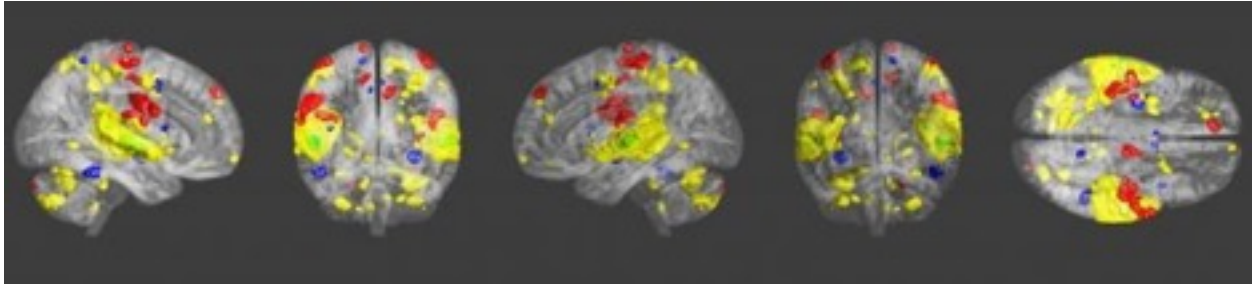


Music and Whole Brain Processing

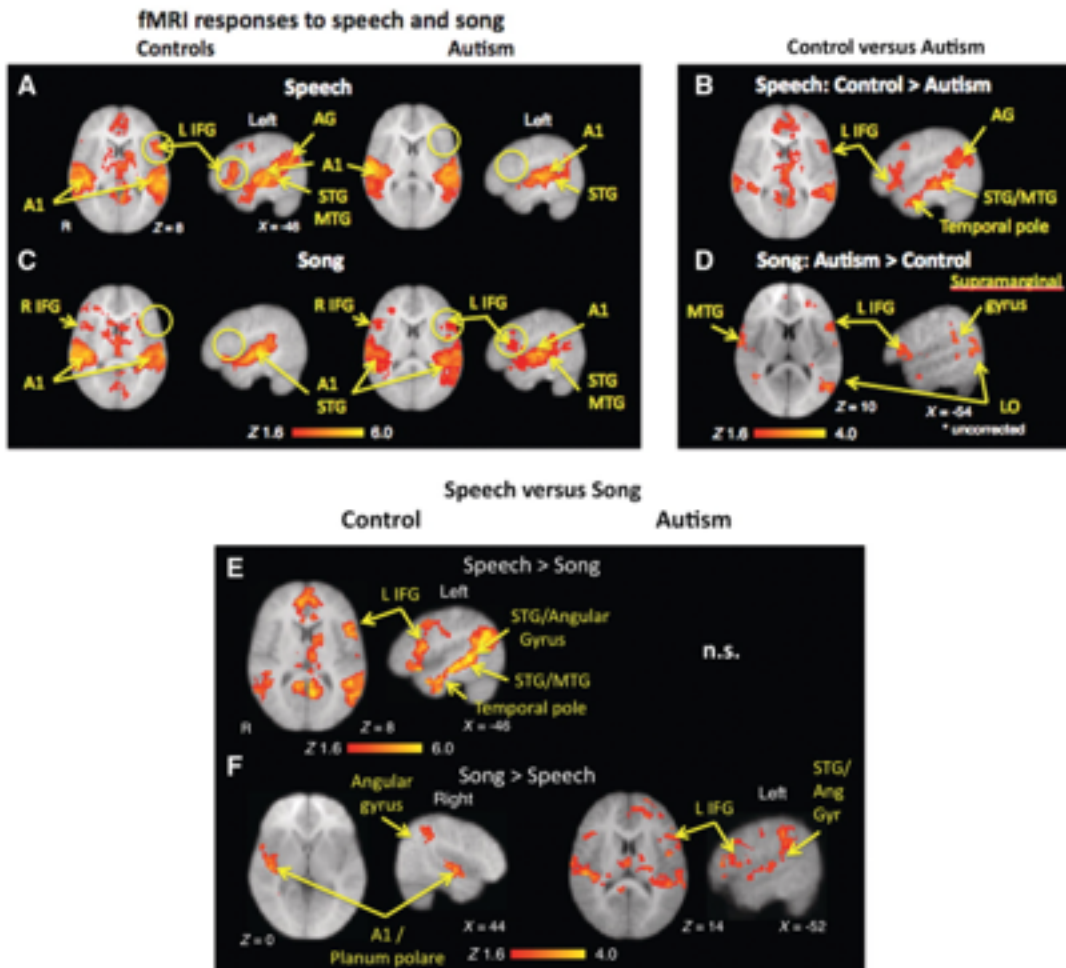


Here is a [link](#) to an interesting article completed by researchers in Finland.

The researchers found that music listening recruits not only the auditory areas of the brain, but also employs large-scale neural networks. For instance, they discovered that the processing of musical pulse recruits motor areas in the brain, supporting the idea that music and movement are closely intertwined. Limbic areas of the brain, known to be associated with emotions, were found to be involved in rhythm and tonality processing. Processing of timbre was associated with activations in the so-called default mode network, which is assumed to be associated with mind-wandering and creativity.

In plain English, this says the researchers found that music did more than just activate the areas where we hear (**auditory**). Music activated the **motor** areas, the **emotion** areas, and the **creative** areas also! All different parts of the brain begin to work when music is used.

Music and Whole Brain Processing



Here is the [link](#) to the article referencing the picture above.

Don't let all the scientific wording scare you off. You will see there are two groups. One group of brains are those of individuals with Autism. The other is a group that does not have Autism.

The pictures compared speech and song. Each picture shows that in the brains with Autism, song lit up or activated more areas of the brain. In the brains without Autism, speech lit up more areas.