Language in children with Autism - cerebral and behavioral characteristics

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Autism is a heterogeneous neurodevelopmental disorder which is diagnosed according to behavioral symptoms in two domains: impairment in reciprocal social communication, and restricted, repetitive patterns of behavior, interests or activities (DSM V, 2013).

My PHD contain two projects, the first investigated the hypothesis regarding disrupted inter-hemispheric connectivity in Autism, by a Diffusion Tensor Imaging in the Corpus Callosum (CC). I found significant differences in the CC fibers that connect the two temporal lobes.

In the second project I investigated the contribution of different behavioral evaluations to the diagnosis of Autism. I found that the language score is most influences on the determination of severity level in Autism.