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All parcellation labels are overlapping, thereby reducing the specificity of the presented areas, yet to be able to generate large-scale maps of the brain and to investigate brain functional systems (Bassett et al., [B9]) using, for example, functional connectivity methods, parcellation is mandatory. Still, parcellations of the brain derived from a data set of a certain size and resolution are of limited use. However, for studies that have a specific focus, where brain parcellation maps are of importance, they can be derived from a subset of the brain structural images. For example, the cerebellum, the limbic system, or the basal ganglia can be parcellated from the fMRI data set and later applied to the subject with structural and functional data (for details see Ridgway et al., [B98]; Riitano et al., [B97]). In the following sections, we will demonstrate how the *in vivo* cerebellum can be parcellated with high accuracy. Cerebellar structure and function {#s2}

===== As described in the first chapter, the cerebellum represents the oldest part of the brain and, given its importance for motor control, its structure and function have been investigated in the past in great detail (see Figure [1](#F1){ref-type="fig"}). The cerebellum consists of ~40 million neurons (~85% neurons in the granular cell layer), the granular layer, the cerebellar nuclei and numerous interneurons. The cerebral cortex and the amygdala have ~18 and ~7 million neurons, respectively. Hence, the cerebellum is very small compared to the cerebral cortex and the amygdala, which are in fact two orders of magnitude larger. Yet, the cerebellum is a large network, which has a crucial role in controlling motor control, language, cognition, attention, and mood, and can be affected in many brain disorders (see the review by Thompson and Bressler, [B117]). **!*(A)*** Sagittal view of a human cerebellum in an MRI scan. The cerebellum is located at the back part of the skull in the occipital area and partly in the posterior fossa. This part of the brain is covered by the cerebellar tonsils, which are connected to the cerebellum via foramen magnum. 82157476af

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