The lesioned brain: dissecting mechanisms of brain reorganization and brain repair

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Alle Interessenten sind herzlich eingeladen!

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Abstract

Structural damage of the brain is seen in some neuropsychiatric diseases. The brain reacts to this challenge by activating plasticity mechanisms aimed at returning the brain to functional homeostasis. Laser microdissection is a powerful tool that can be used in combination with other advanced methods to study cellular and molecular mechanisms underlying lesion-induced brain reorganization and to identify new candidate molecules and pathways. In his talk Thomas Deller summarizes the work of his group on brain reorganization in the denervated hippocampus and gives examples how laser microdissection can help to understand mechanisms of brain disease and repair.