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DZNE • Sigmund-Freud-Str. 27, 53127 Bonn
lecture hall, ground floor

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MRI-histopathological correlates in cerebral amyloid angiopathy

Abstract

Analyses Age-related small vessel diseases are mainly defined by their imaging manifestations on clinical scans. But the histopathology of these lesions as well as underlying mechanisms remain poorly understood. High-resolution ex vivo MRI in human brain tissue coupled with detailed histopathological investigations is a powerful approach to bridge this gap, and offers the opportunity to elucidate pathophysiological mechanisms at the single vessel level.

Susanne van Veluw obtained her PhD at the University Medical Center Utrecht (the Netherlands), where she used 7T MRI to study cerebral microinfarcts in cerebral small vessel disease. She is currently working as a post-doctoral research fellow at the Massachusetts General Hospital in Boston (USA), where she studies mechanisms of microvascular lesion formation in cerebral amyloid angiopathy, using ex vivo MRI and histopathology in human brain tissue, as well as in vivo two-photon microscopy in transgenic mice.

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