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Predictive molecular diagnosis of Alzheimer's Dementia: Towards new clinical models for preventive treatment

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There is an unmet need for rst preventive, that is disease-modifying, treatments of Alzheimer´s dementia (AD). However, preventive treatment calls for predictive diagnosis since novel preventive treatment options can only be o ered if patients are identi ed during preclinical stages of the incipient AD. Per de nition, a preclinical stage can not be detected by clinical tools and accordingly, patients at high risk for later AD have to be identi ed by biomarker guided predictive diagnostics. e presentation will demonstrate that patients with preclinical AD can meanwhile be identi ed within the clinically heterogenous cohort of Mild Cognitive Impairment (MCI) with positive and negative predictive values of at least 90% by a multiparameter biomarker approach relying on CSF dementia biomarkers, MRI volumetry and/or F18-Amyloid-PET. In view of a prevalence of approximately 20% of preclinical AD within the MCI risk cohort the latter predictive values are clinically signi cant. Morevover, it will be critically discussed in how far rst blood-based assays may support the identi cation of preclinical AD. Finally, the presentation will exemplify that novel diagnostic targets may indicate promising novel therapeutic targets.

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