

## Imaging Markers of Vascular Brain Health *Quantification, Clinical Implications, and Future Directions*

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Cerebrovascular disease (CVD) manifests through a broad spectrum of mechanisms that negatively impact brain and cognitive health. Yet CVD changes (excluding acute stroke) are insufficiently considered in aging and dementia studies **which can lead to an incomplete picture of the etiologies contributing to the burden of cognitive impairment**. In this context, the aims of this conference are:

1. To provide *a research update* on the current MRI methods that can measure CVD lesions as well as early CVD-related brain injury specifically related to small vessel disease
2. To discuss *the clinical implications* and relevance of these CVD imaging markers for cognitive decline, incident dementia, and disease progression in Alzheimer disease, and Alzheimer-related dementias
3. To present *our perspective* on the outlook and challenges that remain in the field.

**With the increased research interest in this area, we believe that reliable CVD imaging biomarkers for aging and dementia studies are on the horizon.**

*Marco Duering is a MD with diverse training backgrounds, ranging from molecular and cellular biology during his doctoral thesis at the Center for Molecular Biology Heidelberg (ZMBH) to bioinformatics and clinical neurology. His clinical neuroscience research uses neuroimaging as the main tool for investigating the connection between vascular brain diseases and cognitive impairment.*

▶ Vendredi 11 mars 2022 à 17 h 30

▶ Webinaire en anglais

<https://univ-lille-fr.zoom.us/j/91497968682>

Le cycle de conférences MA<sup>2</sup> est organisé dans le cadre du DIU et des CU MA<sup>2</sup>. Le Diplôme Inter-Universitaire de diagnostic et prise en soins des Maladies d'Alzheimer et Apparentées (DIU MA<sup>2</sup>) est une formation nationale multidisciplinaire parrainée par la Fédération des Centres Mémoire (FCM). Destinée aux médecins travaillant ou aspirant à travailler en centre mémoire, elle se déroule sur deux ans et 8 séminaires. Chaque séminaire est l'occasion d'une conférence ouverte au grand public. Dans le cadre des Certificats Universitaires CU MA<sup>2</sup>, le DIU MA<sup>2</sup> accueille à chaque séminaire chercheurs ou professionnels de santé intéressés par le diagnostic et la prise en charge des troubles neurocognitifs. DIU et CU MA<sup>2</sup> bénéficient du soutien des Fondations Alzheimer et Vaincre Alzheimer depuis leur création en 2015.

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