

**Stellenausschreibung für die Stellenbörse der DGEpi/
Job offer for the job portal of the DGEpi**



Position	PhD position on 'Multi-organ ageing clocks' in Bonn, Germany
Arbeitgeber/ Employer	Institute of Molecular Biology Mainz
Arbeitsort/ Location	DZNE Bonn
Gehalt bzw. Gehaltsstufe/ Salary scale	TVL E13 65%
Arbeitszeit/ Hours	Full time
Vertragsdauer/ Contract type	3 years
Bewerbungsfrist/ Application deadline	31 August 2024
Kontaktperson/ Contact person	coage-recruiting@imb.de
Weitere Bewerbungs- informationen/ Information for applicants	<p>Aging is a major risk factor for most chronic non-communicable diseases, including neurodegenerative and cerebrovascular diseases. However, the effects of aging vary among individuals and can even differ between organ systems. Consequently, biological age serves as a more informative marker of aging compared to chronological age. Initial aging clocks were derived from blood-based molecular markers, including epigenetic, proteomic, metabolic, and inflammation clocks. More recently, estimating biological age at the organ system level has become possible thanks to advances in machine learning and the accessibility of phenotypical data from large population cohorts. However, the reproducibility of these clocks across studies is limited.</p> <p>This PhD thesis aims to enhance the estimation of biological age across the CoAGE cohorts and explore the relation of the biological age gap across different organ systems. We will establish a German multi-organ clock and validate it against proxies of health status (e.g., the frailty index) and molecular aging clocks to assess its potential as an aging biomarker. Finally, we will investigate its potential in predicting cardio- and cerebrovascular and neurodegenerative diseases across German cohorts.</p>

	Supervision: Monique Breteler (DZNE Bonn); The Rhineland Study
Datum der Anzeige/ Date posted	01.08.2024
Link zur Stellenausschreibung/ Link to job posting	CHA Mainz