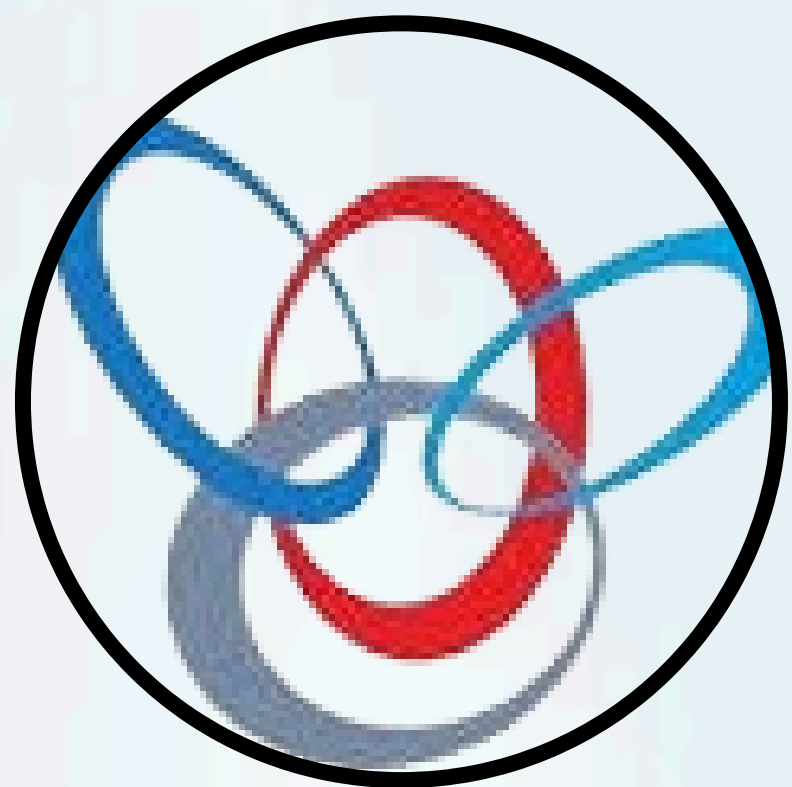


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A Pharmacogenetic Panel-Based Prediction of the Clinical Outcomes in Elderly Patients with Coronary Artery Disease

Current longevity research primarily focuses on molecular and cellular hallmarks of aging, including senescence, mitochondrial dysfunction, genomic instability, and metabolic regulation. While these mechanisms are critically important, functional decline in aging humans may also involve an underrecognized neurogenic hierarchy that precedes visible frailty, loss of movement quality, and reductions in explosive physical capacity.

This presentation introduces a framework referred to as the “Hidden Hierarchy of Aging,” which explores how age-related deterioration in predictive motor systems, descending neural drive, rapid signaling capacity, motor unit behavior, and fast-twitch muscular function may contribute to functional aging long before substantial muscle loss becomes visible.

Keywords: pharmacogenes; polypharmacy; panel; coronary artery diseases; elderly patients

Biography:

Prof. Tong Yin serves as the Vice Director of the Institute of Geriatrics at the National Clinical Research Center for Geriatric Diseases (NCRCGD), Second Medical Center of the PLA General Hospital. She concurrently holds the positions of the Vice President of the Comorbidity Precision Diagnosis and Treatment Branch of the Chinese Society of Geriatrics, Deputy Chair of the Pharmacogenomics Branch of the Chinese Society of Pharmacology, and Director of the Academic Department of the NCRCGD. She is dedicated to pharmacogenomics and multi-omics research, clinical translation, and application of precise medication for cardiovascular diseases and elderly comorbidities.