Dr. Chui is internationally recognized for her research in Alzheimer disease and vascular cognitive impairment. She is the principal investigator for the NIA-funded Alzheimer Disease Research Center, as well as a multi-institutional program project on vascular dementia.

Dr. Chui is the author of over 200 publications and has served on the editorial board for Stroke, Alzheimer Disease and Associated Disorders, and Archives of Neurology. She holds the Raymond and Betty McCarron endowed Chair at the Keck School of Medicine and serves as the Chair of the Department of Neurology.