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PROF. KIM Q. DO – SHORT BIOGRAPHY



Kim Q. Do is Professor of Translational Psychiatry at Lausanne University, Switzerland, and Visiting Professor at the Swiss Federal Institute of Technology Lausanne (EPFL), Harvard Medical School in Boston, USA, and the Institute of Psychiatry, Psychology & Neuroscience at King's College London, UK. Until 2019, she was Director of the Center for Psychiatric Neuroscience (Department of Psychiatry, Lausanne University Hospital).

Her unique research bridges basic neurobiology and clinical investigation, with a focus on understanding the causes and mechanisms of psychosis. Her aim is to develop early diagnostic markers, identify new drug targets, and advance preventive and therapeutic approaches.

Dr Do's studies are centered on oxidative stress/redox dysregulation, which interacts with NMDAR hypofunction, neuroinflammation, and dopamine imbalance. They have revealed circuit-based mechanisms underlying impairments of neural connectivity and synchronization, and leading to cognitive deficits as observed in patients. Her pioneering work has resulted in proof-of-concept clinical trials with the antioxidant N-acetylcysteine.

Recently, she and her team identified blood exosomal markers that detect mitochondria-induced oxidative stress in the microcircuits of parvalbumin interneurons. These biomarkers are instrumental in selecting patients for treatments targeting brain mitochondria dysregulation, and validating the effectiveness of future clinical trials.

Dr Do's translational research paves the way for promising biomarker guided treatment of individuals in the early stages of psychosis.

She has authored over 350 peer-reviewed papers, serves on the editorial boards of prominent biological psychiatry journals, and participates in advisory/evaluation committees for institutions such as the Swiss National Science Foundation (CH), Fondation pour la Recherche Médicale (F), The Wellcome Trust (UK), Medical Research Council (UK), National Institute of Health (USA), and National Science Foundation (USA). She has earned numerous national and international awards, including the 2010 NARSAD Distinguished Investigator Award, the 2018 Outstanding Basic Science Award from the Schizophrenia International Research Society (SIRS), and the 2018 Elsevier Senior Schizophrenia Research Award.

Complete list of publications: <https://orcid.org/0000-0003-1968-1646>