

2022-2023 SOAR Mentor

Ricardo Osorio, MD

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Dr. Ricardo Osorio is a neuroscientist who primarily focuses on age-related sleep changes and their relationship with normal brain development and/or complex brain disorders such as Alzheimer's disease (AD) or late-life depression. He has a broad background in clinical research with specific training in neuropsychology and neuropsychiatry as well as expertise in home sleep monitoring, neuroimaging (structural MRI and PET/MR), as well as plasma and cerebrospinal fluid (CSF) biomarkers. He completed his psychiatry residency training at the '12 de Octubre' Hospital (Madrid, Spain) and the Institute of Neurology (London, UK) in 2006. Dr. Osorio first developed his professional career in Spain as a geriatric psychiatrist and worked in the Alzheimer's Project Research Unit (CIEN Foundation, Madrid, Spain) until 2009 when he was recruited as a

research scientist by the NYU Grossman School of Medicine. He is currently the principal investigator of two community-dwelling longitudinal cohorts that analyze the temporal associations between sleep disturbances, sleep architecture, sleep-dependent memory consolidation, cognition, affective symptoms, race and ethnicity, cardiovascular disease and PET/MR markers of AD neurodegeneration and inflammation. He is also the principal investigator of an R21 grant that analyzes locus coeruleus function using (S,S)-[(11)C]O-methyl reboxetine, and have a long-lasting interest in the role of orexin and norepinephrine in sleep dependent memory processing and hyperarousal states. Importantly, Dr. Osorio was recently appointed Associate Core Leader of the Biomarker Core at the NYU ADRC, where he helps with the management of the biorepositories, processing of the samples and the control of all pre-analytical factors of biomarker biofluid assays.

One of the central themes of his career has been training and mentoring students, psychiatry residents, postdoctoral fellows and junior faculty. Over the years, he has served as a mentor for more than 10 geriatric/psychiatry residents and has mentored eight graduate students through their thesis defenses and five postdoctoral fellows. He has been a recipient of two diversity supplements (through NHLBI and NIA) and is currently mentoring two postdoctoral fellow and two junior faculty, all of them from underrepresented minority (URM) groups. Many of his former mentees have gone on to investigative careers. Dr. Osorio has also collaborated with numerous individuals across NYU, especially within the imaging and sleep labs. In all mentoring, he ensures training in rigorous and unbiased experimental design, methodology, analysis, interpretation, and reporting of results.