



Alberto Herrero Babiloni

Presentation summary

The presentation will explore an academic and research trajectory at the intersection of sleep, pain, and artificial intelligence. It will describe how training in dentistry, orofacial pain, sleep medicine, neuroscience, and clinical research has progressively converged toward the study of sleep–pain interactions, biomarkers, and patient heterogeneity. Particular emphasis will be placed on the potential of artificial intelligence and data-driven approaches to identify clinically meaningful phenotypes, improve patient stratification, and support more personalized approaches to the assessment and management of sleep and pain disorders.

Curriculum Vitae

Dr. Alberto Herrero Babiloni is a clinician-scientist and dentist from Valencia, Spain, with expertise in orofacial pain, dental sleep medicine, neuroscience, and translational research. He completed specialty training at the University of Minnesota and a PhD in Experimental Medicine at McGill University. He is currently a postdoctoral fellow at Hôpital du Sacré-Cœur de Montréal and Université de Montréal, and a Research Associate at CHUM. His research investigates sleep–pain interactions and biomarkers in complex clinical populations, with growing emphasis on artificial intelligence and data-driven approaches to identify clinically meaningful phenotypes and advance precision medicine.