

Biography

Since 2014, Dr. Jordi Serra has been a Consultant in Neurology and Clinical Neurophysiology at King's College Hospital, London. He received his medical degree in 1988 from the University of Barcelona and completed his Neurology specialty in 1992 in Barcelona. He spent the following years (1992 – 1995) as a Neuromuscular Fellow at the Neuromuscular Unit, Good Samaritan Hospital and Oregon Health Sciences University in Portland, Oregon, USA, where he specialized in the study, diagnosis and treatment of neuropathic pain patients.

During this period, he was trained in the technique of microneurography. Microneurography offers an unrivaled tool to study spontaneous pain in humans by producing objective records of the abnormal nerve impulse activity responsible for paresthesia (myelinated fibers) and spontaneous pain (unmyelinated fibers). This is the only available technique to detect and quantify positive sensory phenomena of peripheral nerve origin in humans by recording individual action potentials from single sensory fibers.

Dr. Serra's pioneering work on the recording of abnormal spontaneous activity in C-nociceptors from patients and animal models of neuropathic pain is widely cited in the medical literature. Currently he is researching the correlation of peripheral nociceptor spontaneous activity as seen in patients with the perceptual experience of ongoing pain.

Dr. Serra's expertise also lies in the areas of electromyography, nerve conduction studies, evoked potentials, quantitative sensory testing, thermography, and intraoperative electrophysiological monitoring.

He cofounded both the Pain section of the American Academy of Neurology and the Neuropathic Pain Group of the Spanish Society of Neurology, where he served as the first Chairman. He is a member of the International Association for the Study of Pain (IASP), the British Society of Clinical Neurophysiology, the British Peripheral Nerve Society, the Spanish Society of Neurology, and the Spanish Pain Society.

Dr. Serra has authored many scientific journal articles and book chapters. He is a frequent invited speaker and organizes courses on neuropathic pain. He also serves as a reviewer for several scientific journals (including Brain, Pain, J. Physiology, European Journal of Pain, Molecular Pain, Neuroscience Letters).