

# Clinical Language Mapping by Multimodal Neuromagnetic Methods: a Joint Symposium of ISACM and OHBM

## **Organizer:**

*Nobukazu Nakasato*

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The first speaker (Susan Bookheimer) will outline the role of fMRI in preoperative mapping of language and memory. The second speaker (Andrew Papanicolaou) will focus on how to optimize language mapping with MEG. The third speaker (Shalini Narayana) emphasizes clinical utility of TMS in functional presurgical mapping. The last speaker (Masaki Iwasaki) will comment on the combined uses of fMRI and MEG for pre-surgical mapping and on their impact in the practice of neurosurgery.

## **Role of fMRI in preoperative mapping of language and memory**

*Susan Bookheimer, University of California Los Angeles, Los Angeles, CA, United States*

## **Optimization of presurgical language mapping with MEG**

*Andrew Papanicolaou, The University of Tennessee Health Science Center, Memphis, TN, United States*

## **Clinical utility of TMS in functional presurgical mapping: current state and future directions**

*Shalini Narayana, The University of Tennessee Health Science Center, Memphis, TN, United States*

## **Complementary use of functional MRI and MEG for language mapping in pre-surgical evaluation of epilepsy**

*Masaki Iwasaki, Tohoku University School of Medicine, Sendai, Japan*