

# APFUS 2024

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## **Prof. Jin Woo Chang**

Yonsei University College of Medicine, Korea



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Dr. Chang graduated from Yonsei University College of Medicine in 1983. He completed his neurosurgical residency and fellowship for stereotactic & functional neurosurgery at Severance Hospital, Yonsei University in Seoul, Korea.

Dr. Chang specializes in stereotactic & functional neurosurgery and his main interest is the neuromodulation of the central nervous system with new innovative techniques (electrical stimulation, focused ultrasound and etc).

As a leading pioneer in the field of stereotactic and functional neurosurgery, which is closely related to the rapidly developing field of neuroscience, Dr. Chang has laid the foundation for clinical research for stereotactic & functional neurosurgery in Korea. He is known to have adopted and introduced various cutting-edge techniques in Korea for the first time, such as radiofrequency cingulotomy for obsessive compulsive disorders (OCD) in 1998, and Deep Brain Stimulation (DBS) techniques for the treatment of chronic neurological disorders such as Parkinson's disease (PD) and essential tremor (ET) in 2000.

Dr. Chang also participated for innovative clinical research of MRI-Guided Focused Ultrasound Surgery (MRgFUS) from the primary stage to the treatment of various conditions such as Parkinson's disease, obsessive-compulsive disorder (OCD), and depression. Through his continued research in this technique, he has contributed more than any other person to the wide adoption and understanding of MRgFUS around the world by the suggestion of the special standard guideline of SDR (skull density ratio) for selecting the optimal candidates of MRgFUS lesioning procedure. Because of these contributions, he received the most honorable prize of International Society for Therapeutic Ultrasound (ISTU) so called the William and Francis Fry Honorary Award at the 2021 annual meeting of ISTU.

Since 1993, Dr. Chang has published more than 270 academic papers in SCI(E) journals around the world. He has been selected as the co-author of prominent neurosurgery textbooks more than 8 times, and he has authored countless domestic papers and textbooks.

Currently Dr. Chang serves as a section editor of World Neurosurgery which is an official journal of World Federation of Neurological Surgeons (WFNS). He is also a member of the editorial board for the official journal of World Society for Stereotactic & Functional Neurosurgery (WSSFN) as well as the official journal of the International Neuromodulation Society (INS).

In addition to his various editorial duties, Dr. Chang served as the president of many academic societies such as Korean Society for Stereotactic & Functional Neurosurgery (KSSFN, 2014), Korean Society for Therapeutic Ultrasound (KSTU, 2014-2018), Korean Neurosurgical Society (KNS.,2016-2018), International Society for Reconstructive Neurosurgery (ISRN, 2005-2009), Asian Australasian Society for Stereotactic & Functional Neurosurgery (AASSFN, 2011-2013) and World Society for Stereotactic & Functional Neurosurgery (WSSFN., 2019-2022).

And he is currently serving as the 1st president of Asian Pacific Society for Transcranial Focused Ultrasound Surgery (2023 - )