Chairperson Hiroshi Miyamoto Department of Orthopaedic Surgery, Kindai University Faculty of Medicine

> Kazuhiro Hasegawa Niigata Spine Surgery Center

Symposiast Christopher P. Ames Department of Neurological Surgery, University of California, San Francisco, USA

> Hiroshi Miyamoto Department of Orthopaedic Surgery, Kindai University Faculty of Medicine

Boissière Louis Orthopedic Surgery Department, Bordeaux University Hospital, Bordeaux, France

Kazuhiro Hasegawa Niigata Spine Surgery Center

Yusuke Nakao Department of Orthopedic, Sanraku Hospital

Naohisa Miyakoshi Department of Orthopedic Surgery, Akita University Graduate School of Medicine Michael A. Rauschmann Department of Spine Surgery, Sana Klinikum Offenbach, Offenbach, Germany

Symposium 2 [New technology in spine and spinal cord surgery and image] [Japanese Session]

Chairperson Koji Sato Japanese Red Cross Nagoya Daini Hospital

> Toshihiro Takami Department of Neurosurgery Osaka City University Graduate School of Medicine

Symposiast Yuichiro Abe Department of Orthopedic, Eniwa Hospital

> Masahito Hara Department of Neurosurgery, Inazawa Municipal Hospital

Satoshi Maki Department of Orthopedic Surgery, Graduate School of Medicine, Chiba University Department of Orthopedic Surgery, Division of Vital Care and Reconstructive Medicine, Yoshiharı Nakaya

Osaka Medical College Koji Sato Japanese Red Cross Nagoya Daini Hospital

Toshihiro Takami Department of Neurosurgery Osaka City University Graduate School of Medicine

Symposium 3 [Metastatic vertebral tumor] (Japanese Session)

Hirohisa Katagiri

Chairperson Norio Kawahara Department of Orthopaedic Surgery, Kanazawa Medical University

> Yasuaki Tokuhashi Department of Orthopaedic Surgery, Nihon University School of Medicine

Department of Orthopedic Oncology, Changzheng Hospital, Second Military Medical Xiao Symposiast Jianru

University, Shanghai, China

Nagoya City University, Graduate School of Medical Sciences, Department of Hideki Murakami

Orthopaedic Surgery

Takahiro Hozumi Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital Kenichiro Kakutani

Department of Orthopaedic Surgery, Kobe University Graduate School of Medicine

Department of Orthopaedic Surgery, Shizuoka Cancer Center

Reiko Imai National Institute of Radiological Sciences Hospital

Symposium 4 「Chiari malformation and syringomyelia」 (Japanese Session)

Chairperson Izumi Koyanagi Hokkaido Neurosurgical Memorial Hospital

> Hitoshi Kono Keiyu Orthopedic Hospital Keiyu Spine Center

Symposiast Izumi Koyanagi Hokkaido Neurosurgical Memorial Hospital

> Hiroki Ohashi Department of Neurosurgery, Jikei University School of Medicine

Ohara Yukoh Department of Neurosurgery, Juntendo University

Motoo Kubota Department of Spine Surgery, Kameda Medical Center

Kentaro Naito Department of Neurosurgery, Osaka City University Graduate School of Medicine

Toshiki Saito Department of Orthopaedic and Spine surgery, Meijo Hospital