

The 52nd Annual Musculoskeletal Tumor Meeting of the Japanese Orthopaedic Association

Held in Kawagoe, July 11 and 12, 2019
Congress President, Yasuo Yazawa
Department of Orthopaedic Oncology and Surgery,
Saitama Medical University International Medical Center

1st Day July 11 Room 1

9 : 00~9 : 20 Opening ceremony Congress President Yasuo Yazawa

9 : 20~10 : 20 Special session 1 Moderators F.H. Sim, P.F.M. Choong
English session for young investigators

- 1-1-SS-ES-1 Treatment strategies for intramuscular metastases of malignant tumors
.....*T. Nagai, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ...S1339
- 1-1-SS-ES-2 Surgical outcome for metastatic bone tumors of extremities
.....*H. Hara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1339
- 1-1-SS-ES-3 Efficacy of neoadjuvant chemotherapy for synovial sarcoma: Retrospective analysis
based on a nationwide database*H. Aiba, et al.*, Dept. of Orthop. Surg.,
Nagoya City Univ., Graduate School of Medical Sciences...S1340
- 1-1-SS-ES-4 Extracorporeally-irradiated autograft and vascularized bone graft for reconstruction
after resection of malignant tumor*A. Mihara, et al.*, Dept. of Orthop. Surg.,
Yamaguchi Univ. Graduate School of Medicine...S1340
- 1-1-SS-ES-5 Does surgical resection of primary lesion improve survival in osteosarcoma patients with
metastasis at diagnosis?
.....*L. Zhang, et al.*, Dept. of Orthop., Saitama Medical Center, Jichi Medical Univ...S1341
- 1-1-SS-ES-6 Serum interleukin-6 levels may be a prognostic factor for predicting survival in patients
with soft tissue sarcoma*T. Hagi, et al.*, Dept. of Musculoskeletal Surg.,
Mie Univ. Graduate School of Medicine...S1341
- 1-1-SS-ES-7 How can we pursue a clinical trial for the surgical intervention of sarcoma? Lymph node
dissection could be a model? ..*M. Nakagawa, et al.*, Div. of Hematological Malignancy,
National Cancer Research Institute...S1342

10 : 30~11 : 30 Invited lecture 1 Moderator Y. Inoue

- 1-1-IL1 Mayo Clinic heritage: Professionalism, patient centered care, and teamwork
.....*F.H. Sim*, Dept. of Orthop. Surg., Mayo Clinic, Rochester, MN, USA...S1343

13 : 10~14 : 40 Symposium 1 Moderators M. Susa, H. Koyanagi
Therapeutic significance of denosumab in giant cell tumor of bone

- 1-1-S1-1 Impact of denosumab in the treatment of giant cell tumor of bone: Experience of our
institutes*N. Asano, et al.*, Dept. of Orthop. Surg., Keio Univ...S1344
- 1-1-S1-2 Denosumab does not decrease the risk of lung metastases from bone giant cell tumor
.....*S. Tsukamoto, et al.*, Dept. of Orthop. Surg., Nara Medical Univ...S1344
- 1-1-S1-3 Precaution of denosumab treatment in resectable giant cell tumor of bone
.....*S. Shimose, et al.*, Dept. of Orthop. Surg., Kure Medical Center, Chugoku Cancer Center...S1345

- 1-1-S1-4 Treatment for giant cell tumor of bone in our department for 25 years - What we learned using denosumab
 *M. Hosaka, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...S1345
- 1-1-S1-5 Preoperative denosumab treatment for giant cell tumor of lumbar spine with extraskeletal mass
*H. Koyanagi, et al.*, Dept. of Orthop and Spinal Surg., Tokyo Medical and Dental Univ...S1346

14 : 50~16 : 30	Symposium 2	Moderators T. Gokita, J. Imanishi
Tips and ideas in metastatic bone tumor surgery		

- 1-1-S2-1 Significance of tumor resection and reconstruction with endoprosthesis for metastatic bone tumor of the proximal femur*T. Yasuda, et al.*, Dept. of Orthop. Surg., Univ. of Toyama...S1347
- 1-1-S2-2 Treatment outcomes of intramedullary nail combined with metal mesh and bone cement
*T. Gokita, et al.*, Dept. of Orthop., Saitama Cancer Center...S1347
- 1-1-S2-3 Clinical experience of intercalary endoprosthetic reconstruction for metastatic mid-diaphyseal bone tumors of femur
*T. Tanaka, et al.*, Dept. of Orthop. Surg., Osaka International Cancer Institute...S1348
- 1-1-S2-4 Our strategy in surgical intervention for periacetabular bone metastasis
*J. Imanishi, et al.*, Dept. of Orthop. Oncology and Surg., Saitama Medical Univ. International Medical Center...S1348
- 1-1-S2-5 Cryoablation and combination therapy for bone metastatic lesion of sarcoma and cancer
*K. Asanuma, et al.*, Dept. of Musculoskeletal Surg., Mie Univ. Graduate School of Medicine...S1349

16 : 40~18 : 00	Special session 2	Moderator T. Shimoji
Collaborative Forum of Member Societies of the Japanese Medical Science Foundation - Musculoskeletal Tumor Board		Commentators T. Hirose, N. Shiraga J. Tomomatsu, S. Kato

- 1-1-SS-MTB-1 A rare bone tumor at proximal tibia
*C. Sawamura, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center...S1350
- 1-1-SS-MTB-2 A case of soft tissue tumor in right foot
*T. Fujimoto, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1350
- 1-1-SS-MTB-3 Chondrosarcoma; tibia, subcutaneous sarcoma; scalpe and malignant tumor; clavicle. Multiple primary or metastases?
*K. Yamada, et al.*, Dept. of Orthop. Surg., Okazaki City Hosp...S1351

1st Day July 11 Room 2

9 : 40~10 : 20	Free paper 1	Moderators T. Yonemoto, S. Tsukushi
AYA generation/osteosarcoma		

- 1-2-FP1-1 Fertility preservation in childhood, adolescent and young adult sarcoma patients
*M. Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine...S1352
- 1-2-FP1-2 Does multi-agent chemotherapy affect bone growth of osteosarcoma patients?
*M. Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine...S1352
- 1-2-FP1-3 Miscorrelation of functional outcome and socio-occupational status of childhood and AYA generation with sarcomas ...*K. Honoki, et al.*, Dept. of Orthop. Surg., Nara Medical Univ...S1353
- 1-2-FP1-4 Carbon ion radiotherapy for bone and soft tissue tumors in pediatric and adolescent and young adult (AYA) patients
 *M. Okamoto, et al.*, Gunma Univ. Heavy Ion Medical Center...S1353

- 1-2-FP1-5 Complications and function after limb-sparing surgery for osteosarcoma around the knee in skeletally immature patients *T. Sekita, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1354
- 1-2-FP1-6 The treatment outcome of intracapsular resection of osteosarcoma planned to resect by extracapsular approach *Y. Funouchi, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR ...S1354
- 1-2-FP1-7 Surgical outcome and prognostic factors of local recurrence in osteosarcoma *T. Okamoto, et al.*, Dept. of Orthop. and Musculoskeletal Surg., Graduate School of Medicine, Kyoto Univ. ...S1355
- 1-2-FP1-8 Comparison between pelvic and femoral osteosarcoma by Bone Tumor Registry in Japan *S. Takenaka, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ. ...S1355

10 : 30~11 : 30 Honorary lecture 1 Moderators S. Hayashi, K. Ohtomo

- 1-2-HL1-1 My whole life as an orthopaedic oncologist *Y. Beppu*, Dept. of Orthop. Surg., Shin-Yurigaoka General Hosp. ...S1356
- 1-2-HL1-2 Messages to young doctors about bone and soft tissue tumor surgeries *J. Manabe*, Dept. of Orthop. Surg., Saitama Cancer Center ...S1356

11 : 50~13 : 00 Luncheon seminar 1 Moderator T. Ozaki

- 1-2-LS1 Pre and post-operative management with compressive osseointegration *N.M. Bernthal*, Dept. of Orthop. Surg., UCLA Santa Monica, Santa Monica, CA, USA ...S1357

13 : 10~14 : 10 Invited lecture 2 Moderator Y. Yazawa

- 1-2-IL2 Those with the privilege of knowledge have a duty to act - The evolution of sarcoma care *P.F.M. Choong*, Univ. of Melbourne and St. Vincent's Hosp. Melbourne, Melbourne, Australia ...S1357

14 : 20~15 : 20 Invited lecture 3 Moderator T. Shirai

- 1-2-IL3 The evolution of systemic therapy in sarcomas *R.L. Jones*, Royal Marsden Institute of Cancer Research, London, UK ...S1358

15 : 30~16 : 25 Free paper 2 Giant cell tumor of bone Moderators H. Morioka, H. Urakawa

- 1-2-FP2-1 Outcome of adjuvant treatment using denosumab in giant cell tumor of bone on inspect of surgical treatment *Y. Suehara, et al.*, Dept. of Orthop. Surg., Juntendo Univ. ...S1359
- 1-2-FP2-2 Clinical outcome of giant cell tumor of bone around the knee over 10 years after curettage and calcium phosphate cement *Y. Araki, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1359
- 1-2-FP2-3 Analysis of giant cell tumor of bone based on clinical outcome and pathological features treated with denosumab *K. Hayashida, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. ...S1360
- 1-2-FP2-4 Application of intraoperative MRI in surgery for giant cell tumor of bone after denosumab treatment *T. Furuta, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical & Health Sciences, Hiroshima Univ. ...S1360
- 1-2-FP2-5 Clinical outcome in patients with giant cell tumor of bone *Y. Kawakami, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1361
- 1-2-FP2-6 Malignant transformation of giant cell tumor of bone *H. Katayama, et al.*, Dept. of Orthop. Surg., Okayama Univ. ...S1361
- 1-2-FP2-7 Multimodal therapy for the sacral and pelvic giant cell tumor *H. Otani, et al.*, Dept. of Orthop. Surg., Osaka Univ. ...S1362

- 1-2-FP2-8 Recurrent giant cell tumors of bone after administrated denosumab and curettage
 *O. Dohi, et al.*, Dept. of Orthop. Surg., Tohoku Kosai Hosp...S1362
- 1-2-FP2-9 Clinical outcome of giant cell tumor of bone of the wrist
 *T. Kasahara, et al.*, Dept. of Orthop. Surg., Keio Univ. Hosp...S1363
- 1-2-FP2-10 Similar local recurrence but better function with curettage versus resection for giant cell tumor and pathologic fracture
 *Y. Hyakuda, et al.*, Dept. of Orthop. Surg., Nara Medical Univ...S1363
- 1-2-FP2-11 Analysis on surgical site infection of surgery for giant cell tumor of bone
 *T. Morii, et al.*, Dept. of Orthop. Surg., Kyorin Univ...S1364

16 : 30~17 : 10	Free paper 3 Benign tumor	Moderators M. Ieguchi, Y. Kitagawa
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- 1-2-FP3-1 Chondroblastoma: A review of 18 cases
 *T. Hirozane, et al.*, Dept. of Orthop. Surg., Keio Univ...S1365
- 1-2-FP3-2 Clinical outcomes of patients with chondroblastoma
 *H. Otani, et al.*, Dept. of Orthop. Surg., Osaka Univ...S1365
- 1-2-FP3-3 Osteoid osteoma and osteoblastoma of the cervical spine
 *K. Ando, et al.*, Dept. of Orthop. Surg., Nagoya Univ...S1366
- 1-2-FP3-4 Periosteal chondroma of the hand: A report of 5 cases
 *T. Sawai, et al.*, Dept. of Orthop. Surg., Hyogo College of Medicine...S1366
- 1-2-FP3-5 Treatment outcome of solitary bone cyst
 *T. Udaka, et al.*, Dept. of Orthop. Surg., Kyorin Univ...S1367
- 1-2-FP3-6 Artificial bone graft using interconnected porous & β -tricalcium phosphate for bone defect after resection of bone tumors*K. Demiya, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1367
- 1-2-FP3-7 Three cases of tenosynovial giant cell tumor of the ankle
 *K. Ishida, et al.*, Dept. of Orthop. Surg., Tottori Univ...S1368
- 1-2-FP3-8 Clinical outcome in patients with giant cell tumor of tendon sheath which occurred in their finger or toe *Y. Kawakami, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1368

17 : 20~17 : 55	Free paper 4	Moderators H. Sugiura, M. Tomita
Post-operative function/rehabilitation		

- 1-2-FP4-1 Risk factors of lymphedema following lower limb salvage of extremity soft tissue sarcoma
 *M. Morishita, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1369
- 1-2-FP4-2 Relationship between postoperative walking ability and skeletal muscle body weight ratio in megaprosthesis
 *Y. Katou, et al.*, Dept. of Rehabilitation, Osaka International Cancer Institute...S1369
- 1-2-FP4-3 Functional outcomes after resection of soft tissue sarcomas of upper extremity
 *K. Ito, et al.*, Dept. of Orthop. Surg., Nagoya Memorial Hosp...S1370
- 1-2-FP4-4 Factors affecting the ADL at discharge in patients with malignant bone and soft tissue tumors of the lower limbs
 *S. Nagamine, et al.*, Dept. of Rehabilitation, Univ. of the Ryukyus...S1370
- 1-2-FP4-5 Clinical analysis after amputation for malignant bone and soft tissue tumor
 *M. Yoshida, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center Hosp...S1371
- 1-2-FP4-6 Features and refrection for rehabilitation of bone metastases patients in our hospital
 *K. Koizumi, et al.*, Dept. of Rehabilitation, Saitama Medical Univ. International Medical Center...S1371

1-2-FP4-7 Cancer treatments related musculoskeletal disorders in locomotive syndrome on cancer patients *U. Anazawa, et al.*, Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp. ...S1372

1st Day July 11 Room 3

9 : 40~10 : 10 Free paper 5 Desmoid tumor Moderators T. Goto, M. Hakozaiki

- 1-3-FP5-1 Is the mutation analysis of β -catenin useful for diagnosis of desmoid-type fibromatosis?: A systematic review *T. Sakai, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ. ...S1373
- 1-3-FP5-2 Clinical outcome of extra-abdominal desmoid tumors managed with wait and see policy as first line approach *I. Fujita, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center ...S1373
- 1-3-FP5-3 Treatment including radiation therapy for desmoid-type fibromatosis *K. Hiraoka, et al.*, Dept. of Orthop. Surg., Kurume Univ. ...S1374
- 1-3-FP5-4 Is low dose chemotherapy with MTX and VBL useful treatment for patients with extra-peritoneal DF?: A systematic review *K. Shimizu, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ. ...S1374
- 1-3-FP5-5 Are chemotherapies based on DOX useful treatment for patients with extra-peritoneal DF?: A systematic review *K. Shimizu, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ. ...S1375
- 1-3-FP5-6 Is pazopanib more useful than other molecular targeted therapies for desmoid-type fibromatosis? *M. Endo, et al.*, Dept. of Orthop. Surg., Kyushu Univ. ...S1375

10 : 15~11 : 00 Free paper 6 Bone metastasis 1 Moderators A. Kido, Y. Shinoda

- 1-3-FP6-1 Potential demand for orthopaedics in bone metastasis treatment *Y. Kitagawa, et al.*, Dept. of Orthop. Surg., Nippon Medical School, Graduate School of Medicine ...S1376
- 1-3-FP6-2 Impact of cross sectional cancer board on the management of bone metastases *T. Tokizaki, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1376
- 1-3-FP6-3 Management of bone metastasis in neuroendocrine tumor (NET) patients by collaboration with NET specialized clinic *S. Sato, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ. ...S1377
- 1-3-FP6-4 Which tumor marker should be examined for skeletal metastasis of unknown primary at the time of initial examination? *T. Kojima, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S1377
- 1-3-FP6-5 Risk factors for lower limb pathological fracture in patients with bone metastasis *Y. Shinoda, et al.*, Rehabilitation Center, The Univ. of Tokyo Hosp. ...S1378
- 1-3-FP6-6 Usefulness of CT axial images for early diagnosis of femoral metastatic bone tumors *H. Yonezawa, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1378
- 1-3-FP6-7 Prognostic value of paravertebral muscle density in patients with spinal metastases from gastrointestinal cancer *S. Dohzono, et al.*, Dept. of Orthop. Surg., Yodogawa Christian Hosp. ...S1379
- 1-3-FP6-8 The evaluation of the fracture risk on CT images for the bone metastasis in the femur *A. Takazawa, et al.*, Dept. of Orthop. Surg., Shinshu Ueda Medical Center ...S1379
- 1-3-FP6-9 Change in density of cortical and cancellous bone in osteoblastic metastasis of prostate cancer *H. Rikitake, et al.*, Dept. of Orthop. Surg., National Defense Medical College ...S1380

11 : 00~11 : 30 Free paper 7 Bone metastasis 2 Moderators I. Kudawara, E. Nakata

- 1-3-FP7-1 Characteristics of patients with curative surgery for solitary metastasis in extremity and trunk *K. Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ...S1381
- 1-3-FP7-2 Surgery is effective for symptomatic vertebral metastasis *T. Hitora, et al.*, Dept. of Orthop. Surg., Seirei Hamamatsu Hosp...S1381
- 1-3-FP7-3 The effect of immune-checkpoint inhibitors on non-small cell lung cancer spinal metastases *R. Sasaoka, et al.*, Dept. of Orthop. Surg., Yodogawa Christian Hosp...S1382
- 1-3-FP7-4 Biomarkers to predict the clinical outcomes after treatments of bone modified agents in metastatic bone diseases *H. Urakawa, et al.*, Dept. of Orthop. Surg., Nagoya Univ...S1382
- 1-3-FP7-5 Is it safe to use bone modifying agents for a long time?: New findings revealed from in-hospital side effect survey *S. Sato, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ...S1383
- 1-3-FP7-6 Incidence and possible risk factors of osteonecrosis of the jaw in skeletal metastasis patients treated with denosumab *S. Yamaguchi, et al.*, Dept. of Orthop. Surg., Keio Univ...S1383

11 : 50~13 : 00 Luncheon seminar 2 Moderator Y. Nishida

- 1-3-LS2 Evolution of multidisciplinary approach for bone and soft tissue sarcoma *T. Ueda*, Dept. of Orthop. Surg., Osaka National Hosp...S1384

13 : 10~14 : 10 Continuous medical education course 1 Moderator U. Anazawa

- 1-3-CMEC1 Quick understanding for musculoskeletal tumor MRI *M. Niitsu*, Dept. of Radiology, Saitama Medical Univ. Hosp...S1384

14 : 20~15 : 30 Afternoon seminar 1 Moderator H. Kimura

- 1-3-AS1 A lower extremity prosthesis for musculoskeletal tumor *A. Terakado, et al.*, Tetsudou Kouaikai Prosthesis Orthosis Support Center...S1385

15 : 40~16 : 40 Continuous medical education course 2 Moderator A. Ogose

- 1-3-CMEC2 “I have got cancer, fought against it, and overcome. But then...” *A. Watanabe*, Dept. of Pediatric Oncology, Saitama Medical Univ. International Medical Center...S1385

16 : 50~17 : 50 Continuous medical education course 3 Moderator N. Naka

- 1-3-CMEC3 Development of novel molecular targets and precision medicine in bone and soft tissue sarcomas *Y. Suehara*, Dept. of Orthop., Juntendo Univ...S1386

1st Day July 11 Room 4

11 : 50~13 : 00 Luncheon seminar 3 Moderator A. Kawai

- 1-4-LS3-1 Proper use of new drugs for soft tissue sarcomas: Proposal from basic research *N. Naka*, Dept. of Orthop. Surg., Osaka International Cancer Institute...S1387
- 1-4-LS3-2 2nd line chemotherapy for soft tissue sarcomas *E. Kobayashi*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S1387

15 : 10~15 : 30 Free paper 8 Chemotherapy 1 Moderator K. Tanaka

- 1-4-FP8-1 Development of novel immunotherapy for osteosarcoma
 *F. Nakatani, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp. ...S1388
- 1-4-FP8-2 Temozolomide and etoposide treatment for refractory/relapsed osteosarcoma: A single
 center experience *T. Okamoto, et al.*, Dept. of Orthop. and Musculoskeletal Surg.,
 Graduate School of Medicine, Kyoto Univ. ...S1388
- 1-4-FP8-3 Fanconi syndrome by ifosfamide used in chemotherapy for osteosarcoma and prognosis of
 renal function *K. Suzuki, et al.*, Dept. of Orthop. Surg., Univ. of Toyama ...S1389
- 1-4-FP8-4 The necessity of urine monitoring for chemotherapy with doxorubicin and ifosfamide
 *S. Hamada, et al.*, Dept. of Orthop. Aichi Cancer Center Hosp. ...S1389

15 : 40~16 : 10 Free paper 9 Chemotherapy 2 Moderators M. Hosaka, R. Nakayama

- 1-4-FP9-1 Eribulin mesilate for advanced soft tissue sarcoma: Proposal of the following treatment
 *N. Naka, et al.*, Musculoskel., Oncol., Serv., Osaka International Cancer Institute ...S1390
- 1-4-FP9-2 Clinical outcome of the treatment using eribulin in patients with advanced soft tissue
 sarcoma *T. Nakamura, et al.*, Dept. of Musculoskeletal Surg.,
 Mie Univ. Graduate School of Medicine ...S1390
- 1-4-FP9-3 Treatment line of eribulin and prognoses in L-sarcoma patients
 *K. Nakano, et al.*, Dept. of Medical Oncology, Cancer Institute Hosp. of JFCR ...S1391
- 1-4-FP9-4 Our results of eribulin for advanced soft tissue sarcomas
 *T. Yonemoto, et al.*, Div. of Orthop. Surg., Chiba Cancer Center ...S1391
- 1-4-FP9-5 Body compositions can be a predictor of toxicity after treatment with eribulin for advanced
 soft tissue sarcoma *H. Kobayashi, et al.*, Orthop. Surg.,
 Graduate School of Medicine, The Univ. of Tokyo ...S1392
- 1-4-FP9-6 Eribulin therapy for the treatment of patients with advanced soft tissue sarcoma
 *T. Shirai, et al.*, Dept. of Orthop., Graduate School of Medical Science,
 Kyoto Prefectural Univ. of Medicine ...S1392

16 : 20~16 : 55 Free paper 10 Chemotherapy 3 Moderators A. Kawai, M. Endo

- 1-4-FP10-1 Clinical outcome of trabectedin in Japanese patients with soft tissue sarcoma; JMOG
 multicenter study
 *H. Kobayashi, et al.*, Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo ...S1393
- 1-4-FP10-2 Does progressive disease type influence post-progression survival after the termination of
 trabectedin treatment? *S. Iwata, et al.*, Dept. Musculoskeletal Oncology and
 Rehabilitation, National Cancer Center Hosp. ...S1393
- 1-4-FP10-3 Pazopanib treatment as 1st line therapy for alveolar soft part sarcomas
 *E. Kobayashi, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp. ...S1394
- 1-4-FP10-4 Prolonged survival in randomized trials of first-line treatment for advanced soft tissue
 sarcoma in post-pazopanib era *M. Kawano, et al.*, Dept. of Orthop., Oita Univ. ...S1394
- 1-4-FP10-5 The clinical outcome of trabectedin or eribulin chemotherapy in advanced soft tissue
 sarcomas
 *M. Takeyama, et al.*, Div. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center ...S1395
- 1-4-FP10-6 Clinical outcome of chemotherapy in patients with advanced malignant soft tissue tumor
 *T. Tajima, et al.*, Dept. of Orthop. Surg., Kyorin Univ. ...S1395

- 1-4-FP10-7 Prognostic significance of new chemotherapeutic drugs for patients with soft tissue sarcoma*H. Kawashima, et al.*, Div. of Orthop. Surg., Niigata Univ. Graduate School of Medicine and Dental Sciences...S1396

17 : 05~17 : 55 Free paper 11 Diagnostic imaging Moderators M. Niitsu, S. Abe

- 1-4-FP11-1 Radiological feature of simple bone cyst in calcaneus*M. Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine...S1397
- 1-4-FP11-2 Development of diagnostic tool for osteosarcoma X-ray by artificial intelligence*J. Hasei, et al.*, Dept. of Sports Medicine, Okayama Univ. Graduate School of Medicine...S1397
- 1-4-FP11-3 Clinical features of bone tumors arising from proximal femur*T. Itano, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1398
- 1-4-FP11-4 The importance of ADC map for differentiation of benign and malignant peripheral nerve sheath tumors*H. Koike, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1398
- 1-4-FP11-5 Evaluation of MRI diffusion weighted image ADC value for desmoid-type fibromatosis*K. Shimizu, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1399
- 1-4-FP11-6 In patients with soft tissue tumor, is pretreatment PET-CT more beneficial than conventional imaging*S. Iwata, et al.*, Dept. Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S1399
- 1-4-FP11-7 Role of FDG-PET in diagnosis and features of musculoskeletal tumors*Y. Kawabata, et al.*, Dept. of Orthop. Surg., Yokohama City Univ...S1400
- 1-4-FP11-8 Evaluation of ultrasonography findings in patients with benign and malignant soft tissue tumors*Y. Sakai, et al.*, Niigata Cancer Center Hosp...S1400
- 1-4-FP11-9 Clinical and imaging features of 7 cases of histologically-diagnosed desmoplastic fibroblastoma*T. Matsunobu, et al.*, Dept. of Orthop. Surg., Kyushu Rosai Hosp...S1401
- 1-4-FP11-10 Clinical efficacy of CT-guided percutaneous biopsy for metastatic spinal bone tumor*Y. Shiga, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ...S1401

1st Day July 11 Room 5

11 : 50~13 : 00 Luncheon seminar 4 Moderator T. Takagi

- 1-5-LS4 Future management of bone metastases; prediction and prevention of SREs*E. Nakata*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1402

1st Day July 11 Room poster 1

13 : 30~13 : 55 Poster 1 Chemotherapy 1 Moderator S. Sugihara

- 1-P1-PS1-1 Clinical outcome of pazopanib for the treatment of advanced soft-tissue sarcomas*N. Takada, et al.*, Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine...S1403
- 1-P1-PS1-2 Efficacy of long term use of Eriblin methyselate against advanced soft tissue sarcoma patients*H. Fujii, et al.*, Dept. of Orthop. Surg., Nara Medical Univ...S1403
- 1-P1-PS1-3 Efficacy of eriblin for a patient with bilateral retroperitoneal metastasis of myxoid liposarcoma: A case report*Y. Mori, et al.*, Dept. of Orthop. Surg., Nishijin Hosp...S1404

- 1-P1-PS1-4 Cases of soft tissue sarcoma treated with pazopanib, trabectedin, and eribulin in our department *M. Tomita, et al.*, Dept. of Orthop. Surg., Nagasaki Univ. Graduate School of Biomedical Sciences...S1404
- 1-P1-PS1-5 Short-term clinical results of novel anti-cancer drugs, eribulin and trabectedin *S. Fukushima, et al.*, Dept. of Orthop. Surg., Kyushu Rosai Hosp...S1405

13 : 55~14 : 25	Poster 2 Chemotherapy 2	Moderator H. Futani
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- 1-P1-PS2-1 Screening of dual therapy for osteosarcoma *K. Asanuma, et al.*, Dept. of Musculoskeletal Surg., Mie Univ. Graduate School of Medicine...S1406
- 1-P1-PS2-2 Treatment outcome of VAIA induction chemotherapy in patients with Ewing sarcoma *E. Arai, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1406
- 1-P1-PS2-3 Ifosfamide induced encephalopathy in patients with malignant bone and soft tumor *R. Iwanaga, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine...S1407
- 1-P1-PS2-4 Two cases of the osteosarcoma with delayed excretion of methotrexate due to abnormal fluid collection in the third space *T. Tsukanishi, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1407
- 1-P1-PS2-5 Study of femoral head necrosis in treatment of children with acute lymphoblastic leukemia *T. Sasaki, et al.*, Dept. of Orthop. Surg., Niigata Cancer Center Hosp...S1408
- 1-P1-PS2-6 Two cases of treatment-related myelodysplastic syndrome after treatment for bone and soft tissue sarcoma *Y. Taniguchi, et al.*, Dept. of Orthop. Surg., Kanazawa Univ...S1408

15 : 20~15 : 40	Poster 3 Malignant bone tumor 1	Moderator H. Maehara
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- 1-P1-PS3-1 The clinical evaluation of knee tumor prosthesis in Kyushu University Hospital *T. Fujiwara, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1409
- 1-P1-PS3-2 The results of reconstruction using frozen and pasteurized autograft in the management of bone and soft tissue sarcoma *T. Kidani, et al.*, Dept. of Bone and Joint Surg., Ehime Univ. Graduate School of Medicine...S1409
- 1-P1-PS3-3 Recurrence of osteosarcoma after wide excision and using liquid nitrogen: A case report *K. Aoki, et al.*, Dept. of Bone and Joint Surg., Ehime Univ. Graduate School of Medicine...S1410
- 1-P1-PS3-4 Clear cell chondrosarcoma in acetabulum: A case report *I. Kohama, et al.*, Dept. of Musculoskeletal Oncology, National Cancer Center Hosp...S1410

15 : 40~16 : 10	Poster 4 Surgical option	Moderator Y. Yoshida
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- 1-P1-PS4-1 Clinical outcome of reconstruction with inlay intraoperative extracorporeal autogenous irradiated bone graft *H. Nishimura, et al.*, Dept. of Orthop. Surg., Kagawa Univ...S1411
- 1-P1-PS4-2 Intercalary endoprosthetic reconstruction for bone resection in soft tissue sarcoma *H. Tamiya, et al.*, Dept. of Orthop. Surg., Osaka International Cancer Institute...S1411
- 1-P1-PS4-3 Surgical tips for distal femoral osteosarcoma of a 5-year-old girl *M. Tanabe, et al.*, Dept. of Orthop. Oncol. & Surg., Saitama Medical Univ. International Medical Center...S1412
- 1-P1-PS4-4 Proximal femoral replacement for metastatic bone tumor using trochanteric sliding osteotomy *I. Baba, et al.*, Dept. of Orthop. Surg., Osaka Medical College...S1412
- 1-P1-PS4-5 A case of the ipsilateral femoral autograft reconstruction after resection of the pelvic tumor *Y. Izubuchi, et al.*, Dept. of Orthop. and Rehabilitation Medicine, Univ. of Fukui...S1413

- 1-P1-PS4-6 Reconstructing bone defect with Masquelet technique following wide resection for chondrosarcoma of the proximal femur
 *M. Hakozaiki, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1413

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- 1-P1-PS5-1 Initial treatment outcome of heavy particle radiotherapy for chordoma
 *A. Matsumobu, et al.*, SAGA HIMAT ...S1414
- 1-P1-PS5-2 Surgical outcome of Sacral amputation for sacral chordoma and treatment strategies
 *H. Hamanaka, et al.*, Dept. of Orthop. Surg., Univ. of Miyazaki ...S1414
- 1-P1-PS5-3 Separation surgery with carbon-ion radiotherapy for malignant spine/spinal tumor
 *Y. Matsumoto, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ. ...S1415
- 1-P1-PS5-4 Investigation of carbon ion radiotherapy for pelvic bone tumor
 *K. Saito, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Gunma Univ. ...S1415

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13 : 30~14 : 05 Poster 6 Basic science 1 Moderator T. Setoguchi

- 1-P2-PS6-1 Generation of induced osteosarcoma stem cells by introducing the reprogramming factors
 *S. Fujiwara, et al.*, Dept. of Orthop. Surg., Kobe Univ. ...S1416
- 1-P2-PS6-2 Establishment of a novel CIC-DUX4 sarcoma cell line
 *S. Nakai, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ. ...S1416
- 1-P2-PS6-3 Detection of metastasis using GFP transfected patient-derived osteosarcoma cells in patient-derived orthotopic xenograft
 *H. Oshiro, et al.*, Dept. of Orthop. Surg., Univ. of the Ryukyus ...S1417
- 1-P2-PS6-4 Ontuxizumab inhibits osteosarcoma cell migration but not proliferation and stemness in the presence of fibronectin
 ... *Y. Kondou, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1417
- 1-P2-PS6-5 Anti-tumor effect for MG63 cells by combination of HSP90 inhibitor and autophagy inhibitor
 *Y. Nomura, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S1418
- 1-P2-PS6-6 Anti-tumor effects of TAS-115 on murine osteosarcoma cell line (LM8) with high metastatic potential to the lung
 *N. Yasuda, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ. ...S1418
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 *T. Iwasaki, et al.*, Dept. of Orthop., Oita Univ. ...S1419

14 : 05~14 : 40 Poster 7 Basic science 2 Moderator Y. Tome

- 1-P2-PS7-1 Clinical factors that affect the establishment of soft tissue sarcoma patient-derived orthotopic xenografts
 *K. Igarashi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1420
- 1-P2-PS7-2 Comprehensive gene expression analysis on spindle cell sarcoma using the CAGE method
 *K. Sano, et al.*, Dept. of Orthop., Juntendo Univ. ...S1420
- 1-P2-PS7-3 Glucose metabolism imaging in Ewing sarcoma cells using fluorescent glucose derivatives
 ... *T. Ogawa, et al.*, Dept. of Orthop. Surg., Hiroasaki Univ. Graduate School of Medicine ...S1421
- 1-P2-PS7-4 Novel potentiality of caffeine citrate for chemotherapy: Enhancement of cisplatin anti-tumor effect in sarcoma
 *K. Abe, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1421
- 1-P2-PS7-5 Anti-tumor effect of LAT1 inhibitor in clear cell sarcoma
 *M. Morishita, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1422

- 1-P2-PS7-6 Synergism of p53 activators with bcl-2 inhibitors in synovial sarcoma
 *T. Nishisho, et al.*, Dept. of Orthop., Tokushima Univ. Graduate School...S1422
- 1-P2-PS7-7 Neurotensin receptor 1 inhibitor prevent undifferentiated pleomorphic sarcoma cell
 proliferation synergistically *H. Tokumoto, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical and Dental Sciences, Kagoshima Univ...S1423

15 : 20~15 : 50	Poster 8 Basic science 3	Moderator Y. Kawabata
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- 1-P2-PS8-1 PD-L1 and IDO-1 expression in undifferentiated pleomorphic sarcoma
 *S. Ishihara, et al.*, Dept. of Anatomic Pathology, Pathological Science,
 Graduate School of Medical Sciences, Kyushu Univ...S1424
- 1-P2-PS8-2 Antitumor effects of pristimerin on soft tissue sarcoma *in vitro* and *in vivo*
 *D. Hayashi, et al.*, Dept. of Orthop. Surg., Kyoto Prefectural Univ...S1424
- 1-P2-PS8-3 Frequent mutations of genes encoding vacuolar H⁺-ATPase components in granular cell
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- 1-P2-PS8-4 The risk assessment of pathological fracture due to solitary bone cyst in calcaneus using
 finite element analysis
 *T. Iwai, et al.*, Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine...S1425
- 1-P2-PS8-5 What is the best shape of a drilled hole in treatment of bone tumor?
 *T. Iwai, et al.*, Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine...S1426
- 1-P2-PS8-6 Local control for bone metastasis by gelatin hydrogel as a sustained release system of
 anti-tumor drug
 *Y. Kanda, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1426

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- 1-P3-PS9-1 Treatment results of giant cell tumor of the proximal femur
 *S. Yokoo, et al.*, Science of Functional Recovery and Reconstruction,
 Okayama Univ. Graduate School of Medicine...S1427
- 1-P3-PS9-2 Joint preserved reconstruction with β -TCP after curettage for giant cell tumor of bone in
 the distal radius *A. Sakamoto, et al.*, Dept. of Orthop. Surg., Kyoto Univ...S1427
- 1-P3-PS9-3 The immunohistochemical analysis of distributions of G34W mutation and RANKL
 expression in giant cell tumor of bone
 *I. Shibuya, et al.*, Dept. of Orthop. Surg., Teikyo Univ. Mizonokuchi Hosp...S1428
- 1-P3-PS9-4 Two cases of H3.3G34V-positive giant cell tumors of bone
 *R. Nakagawa, et al.*, Dept. of Orthop. Surg., Keio Univ...S1428
- 1-P3-PS9-5 Successful preoperative treatment with denosumab in a patient with giant cell tumor of
 the lumbar spine *H. Kinoshita, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1429

13 : 55~14 : 15	Poster 10 Giant cell tumor of bone 2	Moderator Y. Matsumoto
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- 1-P3-PS10-1 Malignant transformation of a benign metastatic giant cell tumor of the bone in a
 20 year old patient during denosumab treatment; a case report
 *D. Yung, et al.*, Dept. of Orthop. Surg., Keio Univ...S1430
- 1-P3-PS10-2 A case of huge giant cell tumor of ilium
 *Y. Itagaki, et al.*, The Dept. of Orthop. Surg., Nihon Univ...S1430
- 1-P3-PS10-3 Giant cell tumor of acetabulum with hip subluxation: A case report
 *K. Aizawa, et al.*, Dept. of Orthop. Surg., Iwaki City Medical Center...S1431

1-P3-PS10-4 Three cases of salvage surgery for secondary osteoarthritis after curettage of giant cell tumor of bone around the knee *Y. Araki, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1431

15 : 20~15 : 50	Poster 11 Malignant bone tumor 2	Moderator Y. Shido
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1-P3-PS11-1 A case of pelvic Ewing sarcoma with maintenance therapy of pazopanib *S. Nishimura, et al.*, Dept. of Orthop. Surg., Kindai Univ. ...S1432

1-P3-PS11-2 A case of BCOR-CCNB3 sarcoma which the diagnosis proves to be from Ewing sarcoma after 8 years *K. Miya, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ. ...S1432

1-P3-PS11-3 A case of huge conventional osteosarcoma of the rib with successful multidisciplinary treatment *G. Taniguchi, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1433

1-P3-PS11-4 Intracortical osteosarcoma of the femur in an old lady: A case report *T. Tajino, et al.*, Rev. of Orthop., Southern Tohoku Fukushima Hosp. ...S1433

1-P3-PS11-5 A case of parosteal osteosarcoma arising from the occipital bone *A. Inoue, et al.*, Dept. of Diagnostic Radiol., Tohoku Univ. Hosp. ...S1434

1-P3-PS11-6 Acute pancreatitis due to pancreatic metastasis of osteosarcoma: Two case reports *K. Yoshida, et al.*, Saiseikai Matsusaka General Hosp. ...S1434

15 : 50~16 : 20	Poster 12 Malignant bone tumor 3	Moderator M. Watanuki
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1-P3-PS12-1 A case of extraskeletal myxoid chondrosarcoma arising from the tibia *T. Tajima, et al.*, Dept. of Orthop. Surg., Kyorin Univ. ...S1435

1-P3-PS12-2 Case report: Pulmonray tumor embolism of chondrosarcoma *J. Wasa, et al.*, Dept. of Orthop. Oncol., Shizuoka Cancer Center ...S1435

1-P3-PS12-3 A case of adamantinoma of the pretibial soft tissue *T. Hirose, et al.*, Div. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp. ...S1436

1-P3-PS12-4 Malignant transformation arised from liposclerosing myxofibrous tumor *Y. Araki, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1436

1-P3-PS12-5 Long-term survival following radiofrequency ablation of lung metastases in an elderly patient with osteosarcoma *S. Kumanishi, et al.*, Dept. of Orthop. Surg., Hyogo College of Medicine ...S1437

1-P3-PS12-6 Secondary chondrosarcoma of the femur in a skeletally immature patient with multiple osteochondromatosis: A case report *Y. Kawamae, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1437

16 : 20~16 : 45	Poster 13 Imaging diagnosis	Moderator H. Hatano
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1-P3-PS13-1 Clinical features on magnetic resonance imaging in malignant subcutaneous soft tissue tumors *T. Shimoyama, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. ...S1438

1-P3-PS13-2 Percent of well differentiated liposarcoma area can predict outcome of dedifferentiated liposarcoma in the extremities *J. Shimizu, et al.*, Dept. of Orthop. Surg., Hokkaido Medical Center for Child Health and Rehabilitation ...S1438

1-P3-PS13-3 Imaging characteristics of fatty tumors: Distinction of lipoma, well-differentiated liposarcoma and malignant liposarcoma *Y. Kawabata, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. ...S1439

1-P3-PS13-4 Diffuse appearance of red bone marrow on MRI mimics cancer metastasis and might be associated with heavy smoking *A. Sakamoto, et al.*, Dept. of Orthop. Surg., Kyoto Univ. ...S1439

- 1-P3-PS13-5 The analysis of humeral osteosarcoma activity using apparent diffusion coefficient measurement of MRI
 *T. Tanaka, et al.*, Dept. of Orthop., Osaka International Cancer Institute...S1440

2nd Day July 12 Room 1

9 : 30~11 : 00 Symposium 3 **Moderators K. Tsuchiya, T. Ueda**
Management of soft tissue tumors – Current status and future action including other medical sections

- 2-1-S3-1 Diagnosis and treatment for soft tissue tumors in Japan, current situation and problems
 *K. Tsuchiya*, Dept. of Orthop. Surg., Toho Univ...S1441
- 2-1-S3-2 Management of soft tissue tumor from the viewpoint of dermatologists
 *Y. Nakamura*, Dept. of Skin Oncology/Dermatology, Saitama Medical Univ. International Medical Center...S1441
- 2-1-S3-3 Guideline for diagnosis and management of soft tissue tumor in departments of plastic surgery
 *I. Hashimoto, et al.*, Dept. of Plastic & Reconstr. Surg., Tokushima Univ. Graduate School...S1442
- 2-1-S3-4 Current situation of sarcoma treatment of our hospital: Collaboration with other department and issues
 *S. Nishimura, et al.*, Dept. of Orthop. Surg., Kindai Univ...S1442
- 2-1-S3-5 Establishment of in-hospital clinical network for patients with NF1 in Nagoya University Hospital
 *Y. Nishida, et al.*, Dept. of Rehabilitation, Nagoya Univ...S1443

11 : 10~12 : 10 Culture lecture **Moderators J. Mizuno, R. Imai**

- 2-1-CL-1 Seize the day *T. Tsukamoto*, Omiya Ardija
- 2-1-CL-2 Cheer for me and everybody else! *C. Sekine*

13 : 50~15 : 40 Symposium 4 **Moderators T. Torigoe, T. Akiyama**
Challenges to retroperitoneal liposarcoma

- 2-1-S4-1 Histopathology and differential diagnosis in retroperitoneal liposarcoma
 *K. Kohashi, et al.*, Dept. of Anatomic Pathol., Graduate School of Medical Sciences, Kyushu Univ...S1444
- 2-1-S4-2 Imaging of retroperitoneal liposarcoma
 *S. Hitachi, et al.*, Dept. of Diagnostic Radiology, Tohoku Univ. Hosp...S1444
- 2-1-S4-3 The role and outcomes of surgery for retroperitoneal liposarcoma
 *S. Tsukushi, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center...S1445
- 2-1-S4-4 Surgical treatment of retroperitoneal liposarcoma
 *M. Komiyama*, Dept. of Urology, National Cancer Center Hosp...S1445
- 2-1-S4-5 Radiotherapy using photons, protons, or carbon ions for retroperitoneal sarcomas
 *Y. Demizu*, Dept. of Radiation Oncology, Kobe Proton Center...S1446
- 2-1-S4-6 The significance of systemic chemotherapy for retroperitoneal liposarcoma
 *A. Maejima*, Dept. of Urology, National Cancer Center Hosp...S1446

2nd Day July 12 Room 2

8 : 40~9 : 50 Morning seminar 1 **Moderator N. Endo**

- 2-2-MS1 Pain management with opioid therapy for cancer locomotive syndrome
 *S. Yamaguchi*, Dept. of Anesthesiology, Dokkyo Medical Univ...S1447