

- 1-1-SY2-2 Measures to promote development of rare cancers: Focusing on pharmaceutical approval and insurance coverage *Koshin Kiyohara*, Ministry of Health, Labour and Welfare...S1360
- 1-1-SY2-3 Drug development for rare cancers by academia: Overcoming true drug loss and promoting early-phase trials *Jun Sato*, National Cancer Center Hosp. ...S1361
- 1-1-SY2-4 Development of oncolytic virotherapy to overcome bone and soft tissue tumors *Satoshi Nagano, et al.*, Dept. of Physical Therapy, School of Health Sciences, Faculty of Medicine, Kagoshima Univ. ...S1361
- 1-1-SY2-5 Experience and challenges in drug development for soft tissue sarcoma *Takeaki Ishii*, Nippon Boehringer Ingelheim Co., Ltd. ...S1362
- 1-1-SY2-6 Development of selumetinib for plexiform neurofibromas in neurofibromatosis type 1 *Hiroshi Kobayashi*, Alexion Pharma...S1362

1st Day July 9 Room 2

8 : 30 ~ 10 : 00 Symposium 3	Moderators Y. Matsumoto, H. Kawashima
Fostering the next generation of clinicians and researchers in the fields of rare diseases and cancer	

- 1-2-SY3-1 The training of specialists in bone and soft tissue tumor pathology *Hidetaka Yamamoto*, Dept. of Pathology & Oncology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ. ...S1363
- 1-2-SY3-2 Education and training of medical oncologists in the field of bone and soft tissue tumors *Osamu Maeda, et al.*, Dept. of Clinical Oncology and Chemotherapy, Nagoya Univ. Hosp. ...S1363
- 1-2-SY3-3 Training of bone and soft tissue oncologists in all Japan *Eisuke Kobayashi, et al.*, National Cancer Center Hosp. ...S1364
- 1-2-SY3-4 Education and training of bone and soft tissue tumor specialists at core university hospitals *Makoto Endo, et al.*, Dept. of Rehabilitation Medicine, Kyushu Univ. Hosp. ...S1364
- 1-2-SY3-5 Strategy for recruiting and training specialists in musculoskeletal tumors at Shinshu University Hospital *Masanori Okamoto, et al.*, Dept. of Orthop. Surg., Shinshu Univ. ...S1365
- 1-2-SY3-6 Sustainability in the field of bone and soft tissue tumor *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1365

10 : 10 ~ 11 : 50 Symposium 4	Moderators S. Iwata, M. Endo
Desmoid tumor management: Has patient ADL/QOL improved?	

- 1-2-SY4-1 Black fiber sign on T1-weighted MRI is a predictor of growth in desmoid-type fibromatosis *Makoto Emori, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1366
- 1-2-SY4-2 Clinical results of active surveillance for extraperitoneal desmoid-type fibromatosis *Tomohisa Sakai, et al.*, Rare Cancer Center, Nagoya Univ. Hosp. ...S1366
- 1-2-SY4-3 Does the difference in primary treatment strategies for desmoid tumors affect the time to failure due to progression? *Norio Kurosawa, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR...S1367
- 1-2-SY4-4 A clinical management algorithm to improve ADL and quality of life in desmoid tumor patients *Satoshi Takenaka, et al.*, Dept. of Orthop. Surg, Osaka International Cancer Institute...S1367
- 1-2-SY4-5 The significance of surgery in the treatment algorithm for desmoid tumours *Yuki Funauchi, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo...S1368
- 1-2-SY4-6 CT guided cryotherapy for desmoid-type fibromatosis *Michiro Susa, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1368

12 : 10 ~ 13 : 10 Luncheon seminar 2	Moderator H. Kawashima
Plexiform neurofibroma (PN) in patients with NF1	

- 1-2-LS2-1 Building a regional NF1 care system: A collaborative model centered on the rare cancer and sarcoma center
 *Michiyuki Hakozaki*, Higashi-Shirakawa Orthop. Academy, Fukushima Medical Univ. ...S1369
- 1-2-LS2-2 Real-world initiation of selumetinib in adult NF1-PN
 *Shinichirou Yoshida*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S1369

13 : 20 ~ 14 : 20 Bone Tumor Club I	Moderators M. Abe, S. Takenaka
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- 1-2-BTC-1 A case of soft tissue tumor of the right shoulder
 *Yoshiyuki Ayada, et al.*, Dept. of Pathology and Oncology, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S1370
- 1-2-BTC-2 A case of soft tissue tumor of the right thigh
 *Shohei Miyagi, et al.*, Dept. of Pathology and Laboratory Medicine, Graduate School of Medicine, Nagoya Univ. ...S1370
- 1-2-BTC-3 A case of exrtraskeletal myxoid chondrosarcoma with EWSR1::NR4A3 fusion identified by Nanopore sequencing *Naohiro Makise, et al.*, Div. of Surg. Pathol., Chiba Cancer Center ...S1371

14 : 30 ~ 15 : 30 Bone Tumor Club II	Moderators H. Yagi, T. Nakamura
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- 1-2-BTC-4 Soft tissue tumor of the left thigh *Nanase Okazaki, et al.*, Div. Pathol., Cancer Inst., Japanese Foundation for Cancer Research ...S1371
- 1-2-BTC-5 Ewing sarcoma of the lung showing peculiar intratumoral transformation
 *Tomonori Kawasaki, et al.*, Dept. of Pathol., Saitama International Medical Center, Saitama Medical Univ. ...S1372
- 1-2-BTC-6 Bone tumor of the left femur *Hirokazu Tanaka, et al.*, Dept. of Orthop., Juntendo Univ. ...S1372

15 : 40 ~ 16 : 40 Educational lecture 1	Moderator T. Yamaguchi
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- 1-2-EL1 Bone tumor pathology: an update for 2026 *Akihiko Yoshida*, National Cancer Center Hosp. ...S1373

16 : 50 ~ 18 : 50 Clinicopathologic conference	Moderators T. Motoi, T. Nozaki, H. Koike
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- 1-2-CR-1 Rapid progression to high-grade MPNST arising in the brachial plexus in a patient with NF1: A case report *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1374
- 1-2-CR-2 A case of malignant soft tissue tumor presenting as Pancoast syndrome
 *Kenji Sato, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1374
- 1-2-CR-3 Clinicopathological evaluation of two malignant peripheral nerve sheath tumors in neurofibromatosis type 1 ... *Kan Ito, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center ...S1375
- 1-2-CR-4 A right chest wall tumor arising in a patient with neurofibromatosis type 1
 *Kyoko Yamashita, et al.*, Dept. Pathol., Cancer Institute Hosp., Japanese Foundation for Cancer Research ...S1375

1st Day July 9 Room 3

8 : 30 ~ 9 : 30 Educational lecture 2	Moderator K. Tsuchiya
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- 1-3-EL2 Management of Surgical Site Infections: Essence of the 3rd International Consensus Meeting (2025) *Takeshi Morii*, Dept. of Orthop. Surg., Kyorin Univ. ...S1376

9 : 40 ~ 10 : 40	Invited lecture 2	Moderator A. Matsumine
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1-3-IL2 Clinical and diagnostic value of cancer genomic profiling test for sarcoma
*Hiroshi Nishihara*, Center for Cancer Genomics, Keio Univ.··S1376

10 : 50 ~ 11 : 50	Legend seminar 1	Moderator M. Takahashi
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1-3-LG1-1 The advantages of being a generalist in orthopaedic oncology
*Hirohisa Katagiri*, Shizuoka Cancer Center··S1377

1-3-LG1-2 Circumflexion parallel ligation method for the hyper vascular soft tissue tumors
*Akira Ogose*, Dept. of Orthop. Surg., Uonuma Kikan Hosp.··S1377

12 : 10 ~ 13 : 10	Luncheon seminar 3	Moderator A. Sakamoto
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1-3-LS3-1 Optimizing knee prosthesis reconstruction: Mid- to long-term outcomes and practical strategies with the GMRS*Keisuke Ae, et al.*, Cancer Institute Hosp. of JFCR··S1378

13 : 20 ~ 14 : 20	Educational lecture 3	Moderator H. Sugiura
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1-3-EL3 Pharmacologic strategies to support life participation in patients with bone and soft tissue tumors*Yuichi Ando*, Dept. of Clin. Oncol. Chemother., Nagoya Univ. Hosp.··S1378

14 : 30 ~ 15 : 30	Legend seminar 2	Moderator H. Yoshikawa
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1-3-LG2-1 Reconsidering the significance of musculoskeletal oncology within orthopaedic surgery
*Hiroataka Kawano*, Dept. of Orthop. Surg., Teikyo Univ.··S1379

1-3-LG2-2 Viel Spaß: Four decades in musculoskeletal oncology: Medicine that sustains activity
*Toshifumi Ozaki*, Dept. of Orthop. Surg., Section of Medicine, Div. of Medicine, Dentistry and Pharmaceutical Sciences, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ.··S1379

15 : 40 ~ 16 : 40	Afternoon seminar 1	Moderator H. Kawano
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1-3-AS1-1 What is the ideal genomic medicine for sarcoma?
*Eiji Nakata*, Dept. of Orthop. Surg., Okayama Univ. Hosp.··S1380

1-3-AS1-2 Comprehensive genomic profiling in bone and soft tissue tumors: Practical applications and limitations
*Hiroshi Kobayashi*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo··S1380

1st Day July 9 Room 4

8 : 30 ~ 9 : 30	Main program 1	Moderators K. Asanuma, S. Nagano
Basic and pathological research fostering patient life and function		

1-4-MO1-1 Functional analysis of giant cell-tumor crosstalk in giant cell tumor of bone
*Yo Kimura, et al.*, Div. of Cellular Signaling, National Cancer Center Japan Research Institute··S1381

1-4-MO1-2 Characterization of slow-cycling cells in Ewing sarcoma: Elucidating the role of COL6A1 and drug resistance mechanisms
*Yuta Nakamatsu, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine··S1381

1-4-MO1-3 Spatial transcriptomic analysis of dermatofibrosarcoma protuberans with fibrosarcomatous transformation*Takeo Suzuki, et al.*, Div. of Cellular Signaling, National Cancer Center Japan Research Institute··S1382

- 1-4-MO1-4 Prognostic and immunological significance of tertiary lymphoid structures in infiltrative soft tissue sarcomas *Akane Ariga, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo...S1382
- 1-4-MO1-5 Differentiation diversity of monophasic and biphasic synovial sarcoma revealed by single-cell and spatial analyses *Satoshi Kamio, et al.*, Div. of Cellular Signaling, National Cancer Center Japan Research Institute...S1383
- 1-4-MO1-6 Association between tumor location and imaging and pathological features of spindle cell lipoma *Satoshi Miwa, et al.*, Dept. of Musculoskeletal Oncology, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp...S1383

9 : 40 ~ 10 : 40	Main program 2	Moderators T. Nishisho, K. Ogura
Bone and soft tissue tumors harboring novel gene mutations		

- 1-4-MO2-1 A rare case of NTRK-rearranged spindle cell neoplasm in the index finger *Kengo Sasai, et al.*, Dept. of Orthop. Surg., Asahikawa Medical Univ...S1384
- 1-4-MO2-2 Cutaneous FUS::TFCP2-rearranged rhabdomyosarcoma initially misdiagnosed as ALK-rearranged mesenchymal neoplasm *Daigo Shiraishi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ...S1384
- 1-4-MO2-3 A case of painful EWSR1-SMAD3-positive fibroblastic tumor in the heel *Ami Sawada, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1385
- 1-4-MO2-4 A case of KTN1-RAF1 fusion gene tumour arising in the inguinal region *Yoji Shido, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S1385
- 1-4-MO2-5 A case of EWSR-SMAD3-positive fibrosarcoma arising in the subcutaneous tissue of the lower leg ... *Yoji Shido, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S1386
- 1-4-MO2-6 MN1-CXXC5 fusion-positive soft tissue sarcoma of the thigh: A case report *Kosei Ando, et al.*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science...S1386

10 : 50 ~ 11 : 50	Main program 3	Moderators K. Ikuta, Y. Tsuda
Expandable tumor prostheses, and others		

- 1-4-MO3-1 Expandable endoprosthesis for reconstruction in children with osteosarcoma *Keiko Hayakawa, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR...S1387
- 1-4-MO3-2 Long-term outcomes of extendable endoprosthetic reconstruction following resection of malignant bone tumors in children *Yusuke Tsuda, et al.*, Orthop. Surg., Sensory and Motor System Medicine, Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo...S1387
- 1-4-MO3-3 Mid- to long- term outcome of Kotz extendable tumor endoprosthesis in children with bone sarcoma *Shigeki Kakunaga, et al.*, Osaka International Cancer Institute...S1388
- 1-4-MO3-4 Short- to midterm outcomes & challenges of expandable endoprostheses for pediatric lower-extremity malignant bone tumors *Soichiro Sakai, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ...S1388
- 1-4-MO3-5 Short-term outcomes of compressive osseointegration endoprosthesis *Kei Takeuchi, et al.*, Dept. of Orthop. Surg., Keio Univ...S1389
- 1-4-MO3-6 Survival and failure patterns of MUTARS endoprostheses: A retrospective study of 409 cases in East Asia *Yongsung Kim, et al.*, Seoul National Univ. Bundang Hosp., Gyeonggi-do, South Korea...S1389

13 : 20 ~ 14 : 20	Main program 4	Moderators K. Hayashi, M. Watanuki
The role of orthopaedic surgeons in retroperitoneal and peripelvic surgery		

- 1-4-MO4-1 Current status of retroperitoneal soft tissue sarcoma at our hospital *Keiko Hayakawa, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR...S1390

- 1-4-MO4-2 Short-term outcomes of surgical resection for pelvic and retroperitoneal tumors adjacent to major vessels *Tomoaki Mori, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1390
- 1-4-MO4-3 Extrapleural retroperitoneal approach for retroperitoneal tumor resection *Akira Iwata, et al.*, Dept. of Musculoskeletal Oncology, NHO Hokkaido Cancer Center ...S1391
- 1-4-MO4-4 Addressing the treatment of retroperitoneal tumors through a sarcoma conference in a regional university medical network *Yuma Nishioka, et al.*, Dept. of Orthop., Tokushima Univ. ...S1391
- 1-4-MO4-5 Factors affecting postoperative ADL and perioperative management in pelvic sarcoma surgery *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1392
- 1-4-MO4-6 Clinical outcomes of lumbosacral tumor surgery with sacroiliac joint reconstruction *Kei Takeuchi, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1392

14 : 30 ~ 15 : 30 Main program 5
My approach to sarcoma surgery

Moderators E. Kobayashi, K. Ae

- 1-4-MO5-1 A novel precision surgery for pelvic bone sarcoma using patient-specific osteotomy guides combined with mixed reality *Tomohiro Fujiwara, et al.*, Dept. of Orthop. Surg., Section of Medicine, Div. of Medicine, Dentistry and Pharmaceutical Sciences, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ. ...S1393
- 1-4-MO5-2 Treatment for malignant bone tumor with patient' specific cutting guide *Koji Hagiwara, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences ...S1393
- 1-4-MO5-3 Temporary pubectomy: A safe method to expand surgical space for resection of large intrapelvic tumors *Masato Fumoto, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1394
- 1-4-MO5-4 Biological reconstruction of tibial defects after tumor resection using a mesh plate and autologous cancellous bone *Naomasa Fukase, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1394
- 1-4-MO5-5 Transiliac approach for a sacral benign bone tumor: A case-based surgical experience *Eisuke Arai, et al.*, Okazaki City Hosp. ...S1395
- 1-4-MO5-6 Reconstruction with liquid nitrogen-treated bone only without prosthesis after pelvic P2 resection *Hirohisa Katagiri, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center ...S1395

15 : 40 ~ 16 : 40 Main program 6
Improving quality of life in patients with cancer-related locomotive syndrome

Moderators Y. Shinoda, M. Yoshida

- 1-4-MO6-1 Quantity of lower muscle as a prognostic factor for overall survival in patients with bone and soft tissue sarcoma *Tadashi Iwai, et al.*, Dept. of Orthop. Surg., Yodogawa Christian Hosp., Osaka, Japan ...S1396
- 1-4-MO6-2 Clinical outcomes of and risk factors for emergency surgery for spinal metastases: A JASA multicenter study *Yutaro Kanda, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1396
- 1-4-MO6-3 Breast cancer brachial plexus invasion presenting with upper limb paralysis: Three cases *Misato Iwanaka, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1397
- 1-4-MO6-4 Management of locomotive syndrome due to spinal disorders in cancer center patients without spine surgeons *Junya Kusakabe, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S1397
- 1-4-MO6-5 Skeletal-related events associated with cancer progression during multidisciplinary team care: A retrospective study *Sayaka Yamaguchi, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1398

1st Day July 9 Room 5

8 : 30 ~ 10 : 00	Free paper 1 A valuable case report	Moderators H. Outani, Y. Funauchi
1-5-FP1-1	Rehabilitation after knee rotationplasty for osteosarcoma in a 3-year-old child <i>Kanako Ito, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1399	
1-5-FP1-2	A case of proximal tibia osteosarcoma in neurofibromatosis type 1 <i>Kazuki Fukuda, et al.</i> , Dept. of Orthop. Surg., Sapporo Medical Univ.···S1399	
1-5-FP1-3	A case of fractures from retroperitoneal paraganglioma treated with femoral nailing and reverse shoulder arthroplasty <i>Mio Sasaki, et al.</i> , Dept. of Orthop. Surg., Sapporo Medical Univ.···S1400	
1-5-FP1-4	Successful upper-limb functional recovery after resection of distal humeral metastasis from renal cell carcinoma <i>Anzu Nakamae, et al.</i> , Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ.···S1400	
1-5-FP1-5	A case of recurrent osteochondral lesion of the radial tuberosity with biceps reconstruction <i>Haruto Kunihiro, et al.</i> , Dept. of Orthop. Surg., Keio Univ.···S1401	
1-5-FP1-6	Multiple osteochondromas of the scapula: Possible pathogenesis related to growth plates and endochondral ossification <i>Yoshitaka Ban, et al.</i> , Osaka City Juso Hosp.···S1401	
1-5-FP1-7	Pedal lymphangiography for lymphatic leakage following resection of thigh soft-tissue sarcomas: A report of two cases ··· <i>Toshio Kojima, et al.</i> , Dept. of Orthop. Surg., Nihon Univ.···S1402	
1-5-FP1-8	A case of suspected malignant transformation of a Schwannoma into angiosarcoma <i>Kazuki Ohki, et al.</i> , Osaka City General Hosp.···S1402	
1-5-FP1-9	Multicentric pseudomyogenic hemangioendothelioma of bone and soft tissue: A report of four cases <i>Tatsuro Saruga, et al.</i> , National Cancer Center Hosp.···S1403	
1-5-FP1-10	Three cases of multiple myeloma diagnosed following spinal lesions: Diagnostic pitfalls in serum biochemistry <i>Yukihiro Hashimoto, et al.</i> , Dept. of Orthop. Surg., Saitama Medical Center, Saitama Medical Univ.···S1403	
1-5-FP1-11	Clinical features distinguishing tumors from tumor-like lesions in patients with rheumatoid arthritis <i>Toshifumi Fujiwara, et al.</i> , Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ.···S1404	
1-5-FP1-12	Fatal superior vena cava injury following recurrent intratumoral hemorrhage in a patient with neurofibromatosis type 1 <i>Mariko Kawamura, et al.</i> , Dept. of Orthop. Surg., Keio Univ.···S1404	
1-5-FP1-13	Hybrid nerve sheath tumor of the sciatic nerve main trunk with severe adhesion mimicking MPNST: A case report <i>Kojiro Yoshikawa, et al.</i> , Dept. of Orthop. Surg., Tokyo Medical Univ.···S1405	
1-5-FP1-14	A case of giant cell tumor of bone of the distal ulna with long-term local control after discontinuation of denosumab <i>Yuki Aibara, et al.</i> , Dept. of Orthop., Tokyo Dental College, Ichikawa General Hosp.···S1405	
1-5-FP1-15	Catheter-related aseptic inflammation during trabectedin administration: Focus on polyurethane water absorption <i>Naohiro Shinohara, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S1406	

10 : 10 ~ 11 : 50 Panel discussion 1 Moderators K. Hoonoki, K. Horiuchi
Basic and translational research aimed at fostering patient activity

- 1-5-PD1-1 Impact of genomic medicine on patients with soft tissue and bone tumours
*Makoto Hirata*, Dept. of Genetic Medicine and Services, National Cancer Center Hosp.···S1407
- 1-5-PD1-2 Development of therapeutic strategies using a sarcoma organoid research platform
*Toru Wakamatsu, et al.*, Osaka International Cancer Institute···S1407
- 1-5-PD1-3 Spatial transcriptomic analysis in bone and soft tissue sarcomas
*Yoshiyuki Suehara, et al.*, Div. of Cellular Signaling,
 National Cancer Center Japan Research Institute···S1408
- 1-5-PD1-4 Exploration of novel therapeutic strategies targeting retinoid signaling pathways in
 synovial sarcoma*Ryuichi Fukuda, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1408
- 1-5-PD1-5 Photo- and radiodynamic therapy using 5-aminolevalunic acid for bone and soft
 tissue sarcoma*Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine···S1409
- 1-5-PD1-6 Addressing soft-tissue defects: Development of functional limb reconstruction using
 decellularized soft tissues
*Tomohiro Fujiwara, et al.*, Dept. of Orthop. Surg., Section of Medicine,
 Div. of Medicine, Dentistry and Pharmaceutical Sciences,
 Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ.···S1409

12 : 10 ~ 13 : 10 Luncheon seminar 4 Moderator S. Imagama

- 1-5-LS4-1 Treatment strategies for metastatic spinal tumors: The clinical utility of fenestrated screws
*Satoshi Kato*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ.···S1410

13 : 20 ~ 14 : 20 Educational lecture 4 Moderator A. Kido

- 1-5-EL4 Rehabilitation treatment for bone and soft tissue tumors based on the ICF model
*Eiichi Tsuda*, Dept. of Rehabilitation Medicine, Hirosaki Univ. Graduate School of Medicine···S1410

14 : 30 ~ 15 : 30 Invited lecture 3 Moderator S. Iwata

- 1-5-IL3 Latest edition of the global management consensus from The Desmoid Tumor Working Group:
 Incorporating the patient voice*Bernd Kasper*, Univ. of Heidelberg,
 Mannheim Univ. Medical Center, Mannheim Cancer Center (MCC), Mannheim, Germany···S1411

15 : 40 ~ 16 : 40 Afternoon seminar 2 Moderator T. Shirai
A paradigm shift in the management of metastatic bone tumors:
New developments in diagnostic support enable by temporal bone subtraction imaging

- 1-5-AS2-1 Development of a diagnostic support system for metastatic spinal tumors using subtraction
 images from CT scans*Fumihiko Nakatani*, National Cancer Center Hosp. East···S1412
- 1-5-AS2-2 The role of Temporal Subtraction For Bone in the management of metastatic bone tumors
*Hiroyuki Tsuchie*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S1412

1st Day July 9 Room 6

8 : 30 ~ 9 : 30 Free paper 2

Moderators T. Gokita, K. Muramatsu

Reconstruction for improving patients' Function and quality of life

- 1-6-FP2-1 Reconstruction of soft tissue defects using the lateral gastrocnemius muscle after soft tissue sarcoma resection
*Shusa Ohshika, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1413
- 1-6-FP2-2 Knee extension reconstruction using artificial ligament after resection of proximal tibial malignant bone tumor*Ryuto Sugawara, et al.*, Dept. of Orthop. Surg., Yamagata Univ...S1413
- 1-6-FP2-3 Clinical experience of knee arthrodesis in bone and soft tissue tumors
*Taisuke Tanizawa, et al.*, Cancer Institute Hosp. of JFCR...S1414
- 1-6-FP2-4 Development of a mono-lobe flap for hemicircular/elliptical defects
*Akio Sakamoto, et al.*, Dept. of Orthop. Surg., Kyoto Univ...S1414
- 1-6-FP2-5 Indications and prognostic analysis of internal vs. external hemipelvectomy for malignant pelvic tumors
*Masanori Saito, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR...S1415
- 1-6-FP2-6 Vascularized periosteal grafting for bone defects after surgery for malignant bone and soft tissue tumors*Taisuke Furuta, et al.*, Dept. of Orthop. Surg., Hiroshima Univ. Hosp...S1415
- 1-6-FP2-7 Functional outcomes of reconstruction using autologous liquid nitrogen-treated bone
*Takahiko Ishimaru, et al.*, Dept. of Orthop. Surg., Section of Medicine,
 Div. of Medicine, Dentistry and Pharmaceutical Sciences,
 Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ...S1416
- 1-6-FP2-8 Outcomes of liquid-nitrogen-treated autologous bone reconstruction after hemicortical resection*Makoto Yamaguchi, et al.*, Dept. of Orthop. Surg.,
 Nagoya City Univ., Graduate School of Medical Sciences...S1416
- 1-6-FP2-9 Debridement, antibiotics, and graft retention for infection of tumor-bearing frozen autograft
*Shinji Miwa, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ...S1417

9 : 40 ~ 10 : 50 Free paper 3

Moderators H. Nakajima, I. Baba

Fostering patient activity through symptom assessment, imaging, and pathological diagnosis

- 1-6-FP3-1 An analysis of tumor related skin temperature differences in malignant soft tissue tumors
*Akiyoshi Shimatani, et al.*, Dept. of Orthop. Surg., Osaka Saiseikai Nakatsu Hosp...S1418
- 1-6-FP3-2 Usefulness of chemical shift imaging for differentiation between intertrabecular metastasis and bone marrow hyperplasia
*Kensaku Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ...S1418
- 1-6-FP3-3 Leiomyosarcoma arising from the femoral: External iliac vein with initial presentation of lower leg edema*Seiichi Matsumoto, et al.*, Cancer Institute Hosp. of JFCR...S1419
- 1-6-FP3-4 Advanced 3D visualization of contrast enhanced CT for tumor-vessel assessment enabling safe surgery*Toru Hirozane, et al.*, Dept. of Orthop. Surg., Kyorin Univ...S1419
- 1-6-FP3-5 Risk assessment of pathological fractures in lung cancer spinal metastases using FDG-PET: SUVmax and MTV
*Kosuke Takeda, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ...S1420
- 1-6-FP3-6 Quantitative assessment of tumor and vessel agreement in bone-based CT-MRI 3D fusion for malignant soft-tissue tumors
*Akira Takazawa, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1420

- 1-6-FP3-7 Factors affecting thallium scintigraphy findings in Schwannoma
*Ryosuke Nishi, et al.*, Dept. of Orthop.,
 Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1421
- 1-6-FP3-8 The tug lesion hypothesis in distal femoral non-ossifying fibroma
*Manabu Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp...S1421
- 1-6-FP3-9 Sclerosing perineurioma with unilateral vestibular schwannoma: A second report
*Hiroataka Koyanagi, et al.*, Dept. of Rehabilitation, Saitama Cancer Center...S1422
- 1-6-FP3-10 The frequency, distribution and image findings of the tumors and tumor-like lesions of the
 digit and hand*Hiroataka Yonezawa, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ...S1422
- 1-6-FP3-11 Relevance of immune checkpoints in osteosarcoma
*Akihiro Daisaku, et al.*, Dept. of Orthop. Surg., Kurume Univ...S1423

11 : 00 ~ 12 : 00	Free paper 4	Moderators E. Nakata, H. Hara
Fostering daily life and function in patients with cancer locomotive syndrome and bone metastases I		

- 1-6-FP4-1 Multidisciplinary cancer locomotive syndrome management strategy based on postoperative
 QOL and physical activity*Natsuko Fukuoka, et al.*, Dept. of Orthop. Surg., Kagawa Univ...S1424
- 1-6-FP4-2 Significance of the cancer board in the treatment of bone metastasis at our institute
*Akira Yoshiyama, et al.*, Dept. of Orthop. Surg., Tokyo Medical Center...S1424
- 1-6-FP4-3 Treatment strategy for cancer bone metastasis in our hospital
*Shotaro Nishikawa, et al.*, Dept. of Orthop. Surg.,
 Osaka Medical and Pharmaceutical Univ...S1425
- 1-6-FP4-4 Clinical practice patterns of bone metastasis management and orthopaedic involvement at
 our institution*Yumi Matsuyama, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1425
- 1-6-FP4-5 Imaging practices in primary oncology departments and considerations for screening of
 bone metastases*Yuta Taniguchi, et al.*, Dept. of Orthop. Surg., Kanazawa Medical Center...S1426
- 1-6-FP4-6 Interventional outcomes for bone metastases from gynecological malignancies at
 our hospital*Takashi Tajima, et al.*, Dept. of Orthop. Surg., Kyorin Univ...S1426
- 1-6-FP4-7 Early mortality prediction using immunonutritional indices and new Katagiri score after
 surgery for bone metastases
*Ukei Anazawa, et al.*, Dept. of Orthop., Tokyo Dental College, Ichikawa General Hosp...S1427
- 1-6-FP4-8 A preoperative nutritional assessment method useful for predicting prognosis in cases of
 spinal fusion for spinal mets
*Hirofumi Shimada, et al.*, Dept. of Orthop. Surg., Kagoshima City Hosp...S1427
- 1-6-FP4-9 AI reveals a risk factor for occurrence of bone metastasis in breast cancer
*Hirokazu Shimizu, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ...S1428
- 1-6-FP4-10 MRI bone marrow signal recovery factor after stereotactic body radiotherapy for
 spinal metastases
*Masateru Fujiwara, et al.*, Dept. of Radiotherapy, Suita Tokushukai Hosp...S1428

13 : 20 ~ 13 : 50	Free paper 5	Moderators R. Imai, Y. Tome
Radiotherapy to foster patients' daily lives and well-being		

- 1-6-FP5-1 Clinical outcomes of high-precision radiotherapy for radioresistant spinal metastasis
*Naoki Furukawa, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1429
- 1-6-FP5-2 Clinical results of carbon ion radiotherapy combined with bioabsorbable spacer for bone and
 soft tissue sarcoma*Akira Matsunobu, et al.*, SAGA HIMAT...S1429

- 1-6-FP5-3 Clinical outcomes of definitive radiotherapy for unresectable bone and soft tissue sarcomas
 *Osamu Hisano, et al.*, Dept. of Clinical Radiol.,
 Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ.···S1430
- 1-6-FP5-4 The role of marginal resection combined with radiotherapy for soft tissue sarcoma in patients
 aged 80 years or older *Masatake Matsuoka, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1430
- 1-6-FP5-5 Clinical experience with radiotherapy for cardiac metastasis from chondrosarcoma
 *Junji Wasa, et al.*, Shizuoka Cancer Center···S1431

14 : 00 ~ 14 : 30	Free paper 6	Moderators M. Hosaka, H. Hatano
Fostering patient activity through prognostic assessment I		

- 1-6-FP6-1 Predictive value of pretreatment P-glycoprotein immunostaining for chemotherapy efficacy
 and survival in osteosarcoma *Takashi Higuchi, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ.···S1432
- 1-6-FP6-2 Exploring factors related to prognosis in osteosarcoma treatment using machine learning
 *Daichi Hayashi, et al.*, Dept. of Orthop.,
 Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine···S1432
- 1-6-FP6-3 Assessment of metastatic risk in Intraosseous confined chondrosarcoma
 *Teruhiko Ando, et al.*, Dept. of Orthop. Surg., Section of Medicine,
 Div. of Medicine, Dentistry and Pharmaceutical Sciences, Graduate School of Medicine,
 Dentistry and Pharmaceutical Sciences, Okayama Univ. Central Rehabilitation Service,
 Okayama Univ.···S1433
- 1-6-FP6-4 Prognostic factors in gastric and esophageal cancer patients with bone metastases treated
 with ICIs *Katsuhiko Fukushima, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Hosp.···S1433
- 1-6-FP6-5 Association between the Ki-67 labeling index and chemotherapy efficacy in sarcoma
 *Satoshi Okita, et al.*, Dept. of Orthop., Shimane Univ.···S1434

14 : 40 ~ 15 : 40	Free paper 7	Moderators M. Takeyama, A. Nagano
Interpreting treatment outcomes I		

- 1-6-FP7-1 Clinical outcomes of patients with unresectable osteosarcoma and undifferentiated
 pleomorphic sarcoma of bone
 *Masanori Okamoto, et al.*, Dept. of Orthop. Surg., Shinshu Univ.···S1435
- 1-6-FP7-2 Experience with treatment for chondrosarcoma of the chest wall
 *Nobuo Yamagami, et al.*, Dept. of Orthop., Shimane Univ.···S1435
- 1-6-FP7-3 Analysis of factors associated with postoperative pulmonary complications following chest
 wall tumor resection *Takashi Ariizumi, et al.*, Div. of Orthop. Surg.,
 Niigata Univ. Graduate School of Medical and Dental Sciences···S1436
- 1-6-FP7-4 Time of relapse in patients with osteosarcoma
 *Yasunori Tome, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus···S1436
- 1-6-FP7-5 Surgical treatment for proximal femoral bone tumors including approaches, artificial bone,
 and internal fixation *Yoshitaka Ban, et al.*, Osaka City Juso Hosp.···S1437
- 1-6-FP7-6 Bone and soft tissue sarcomas that developed recurrence after a disease-free survival period
 of more than 10 years
 *Hiroshi Hatano, et al.*, Dept. of Orthop. Oncology, Niigata Cancer Center Hosp.···S1437
- 1-6-FP7-7 Surgical resection for soft tissue metastasis from carcinoma: Clinical features and outcomes
 of 34 cases *Shohei Murata, et al.*, Cancer Institute Hosp. of JFCR···S1438
- 1-6-FP7-8 Bone-related events after discontinuation of high-dose denosumab initiated by
 other departments
 *Jun Sugaya, et al.*, Dept. of Orthop. Surg., Tokyo Women's Medical Univ.···S1438

- 1-6-FP7-9 Efficacy of celecoxib and methotrexate with vinblastine regimen in desmoid-type fibromatosis *Masanori Kawano, et al.*, Dept. of Orthop. Surg., Oita Univ.··S1439
- 1-6-FP7-10 Incidence and trends of postoperative complications in benign bone and soft tissue tumors *Taketsugu Fujibuchi, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine··S1439

15 : 50 ~ 16 : 50 Free paper 8

Moderators H. Kimura, K. Yamada

Improving patients' daily lives and quality of life through education

- 1-6-FP8-1 Education/consultation gaps in sarcoma & bone metastasis: Survey of Chiba Univ. orthopaedic residents *Yasuhiro Shiga, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.··S1440
- 1-6-FP8-2 Strategies for training young surgeons using Miller's pyramid in bone and soft tissue tumor surgery *Takaaki Tanaka, et al.*, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui··S1440
- 1-6-FP8-3 Diagnostic familiarity with fibrous dysplasia among primary physicians *Manabu Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp.··S1441
- 1-6-FP8-4 Factors of delayed consultation in patients with giant malignant soft tissue tumors and impact on prognosis *Shinichirou Yoshida, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine··S1441
- 1-6-FP8-5 The relationship between the time from symptom to therapeutic intervention in patients with osteosarcoma *Hironori Date, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine··S1442
- 1-6-FP8-6 How to diagnose osteoid osteoma quickly? *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine··S1442
- 1-6-FP8-7 Glomus tumors: Pitfalls in diagnosis of atypical cases compared to typical subungual cases *Michiyuki Hakozaki, et al.*, Higashi-Shirakawa Orthop. Academy, Fukushima Medical Univ.··S1443
- 1-6-FP8-8 A case series of extra digital glomus tumor *Kazunaga Kimura, et al.*, Div. of Orthop. Surg., Niigata Univ.··S1443
- 1-6-FP8-9 Does ultrasonography contribute to appropriate referral of soft tissue sarcomas? *Tomotaka Yoshida, et al.*, Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine··S1444
- 1-6-FP8-10 Cancer education involving external lecturers in Nagano prefecture *Kaoru Aoki, et al.*, Dept. of Applied Physical Therapy, Shinshu Univ. School of Health Sciences··S1444

2nd Day July 10 Room 1

8 : 40 ~ 10 : 40 Symposium 5

Moderators T. Ozaki, S. Tsukushi

Pelvic tumor management and post-resection bone and soft tissue reconstruction with a focus on ADL and quality of life

- 2-1-SY5-1 Pelvic reconstruction using frozen autograft treated with liquid nitrogen *Katsuhiro Hayashi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.··S1445

- 2-1-SY5-2 The findings of mid- and long-term analysis on hip transposition arthroplasty using temporary external fixation
 ... *Toshiyuki Kunisada, et al.*, Dept. of Medical Materials for Musculoskeletal Reconstruction, Okayama Univ. ...S1445
- 2-1-SY5-3 Reconstruction of pelvic region after resection of musculoskeletal tumors
 ... *Satoshi Akazawa*, Dept. of Plastic and Reconstructive Surg., National Cancer Center Hosp. ...S1446
- 2-1-SY5-4 Pelvic ring deformity and ambulatory ability following resection of malignant pelvic tumors
 ... *Masanori Saito, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR ...S1446
- 2-1-SY5-5 Approaches for enhancing ADL and QOL in surgical management of malignant pelvic tumors
 ... *Toru Akiyama*, Saitama Medical Center, Jichi Medical Univ. ...S1447
- 2-1-SY5-6 Impact of carbon ion radiotherapy on ADL and QOL in patients with pelvic sarcoma
 ... *Reiko Imai, et al.*, QST Hosp., National Institute of Quantum Science and Technology ...S1447

10 : 50 ~ 11 : 50 Cultural lecture Moderator M. Yamamoto

- 2-1-CL1 The power to shape the future by unraveling history through Tokugawa Yoshinobu
 ... *Miki Yamagishi*, The 5th Head of the Tokugawa Yoshinobu Family ...S1448

**12 : 10 ~ 13 : 10 Luncheon seminar 5 Moderator Y. Nishida
 Megaprosthesis treatment for upper limb tumor cases**

- 2-1-LS5-1 The role of tumor prostheses in reconstruction after proximal humerus tumor resection: Indications and pitfalls of RSA ... *Akira Nabeshima*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1449
- 2-1-LS5-2 Current status and challenges of reconstructive surgery in the treatment of malignant bone tumors of the upper extremity
 ... *Toshiharu Shirai*, Dept. of Orthop. Surg., Yokohama Sakae Kyosai Hosp. ...S1449

13 : 20 ~ 14 : 20 Invited lecture 4 Moderator T. Ueda

- 2-1-IL4 Innovation in orthopaedic oncology
 ... *Nicholas M. Bernthal*, Dept. of Orthop. Surg., David Geffen School of Medicine at UCLA, Los Angeles, CA, USA ...S1450

14 : 30 ~ 15 : 30 Educational lecture 5 Moderator S. Matsumoto

- 2-1-EL5 An overview and future perspectives on patient safety ... *Yoshimasa Nagao*, Nagoya Univ. Hosp. ...S1450

2nd Day July 10 Room 2

**8 : 30 ~ 10 : 20 Panel discussion 2 Moderators T. Yonemoto, K. Ikuta
 Connecting AYA sarcoma care: Multidisciplinary support fostering patient activity and enabling social reintegration**

- 2-2-PD2-1 MHLW's initiatives for AYA Cancer Patients under the Fourth Basic Plan to Promote Cancer Control Programs ... *Midori Kawaguchi*, Ministry of Health, Labour and Welfare ...S1451
- 2-2-PD2-2 Long-term health management for adolescent and young adult sarcoma survivors
 ... *Naoko Maeda*, Dept. of Pediatrics, NHO Nagoya Medical Center ...S1451
- 2-2-PD2-3 Orthopaedic oncologists as anchors of multidisciplinary support for AYA sarcoma patients
 ... *Tabu Gokita*, Dept. of Orthop. Surg., Saitama Cancer Center ...S1452
- 2-2-PD2-4 Digital support for adolescent and young adult patients with sarcoma
 ... *Joe Hasei, et al.*, Dept. of Med. Informatics and Clin. Support Tech. Dev., Okayama Univ. Grad. Sch. of Med., Dent., and Pharm. Sci. ...S1452

- 2-2-PD2-5 Career development support for CAYA cancer patients bridging healthcare and society
 *Fumi Hattori*, Bridge - Support Network for Working During Treatment
 (General Incorporated Association)···S1453
- 2-2-PD2-6 Supporting patients after discharge to prevent loneliness
 *Yuya Watanabe*, Croissance: Nagoya Univ. Hosp.
 Pediatric Hematology and Oncology Patient Association···S1453

10 : 30 ~ 12 : 00	Symposium 6	Moderators S. Takenaka, C. Kondo
Patient-centered genomic panel testing that meets clinical expectations		

- 2-2-SY6-1 Clinical sequence of cancer genome panel using big data
 *Eiji Nakata, et al.*, Dept. of Orthop. Surg., Okayama Univ. Hosp.···S1454
- 2-2-SY6-2 Experience and challenges in comprehensive genomic profiling
 *Koichi Ogura, et al.*, Dept. of Musculoskeletal Oncology, National Cancer Center Hosp.···S1454
- 2-2-SY6-3 Practical use of CGP in bone and soft tissue tumors: Supporting patients and their
 treating physicians *Shiro Kimbara*, Kobe Univ. Hosp.···S1455
- 2-2-SY6-4 PDGFRA amplification may be a poor prognostic factor in patients with advanced UPS in a
 CGP cohort *Hiroshi Kobayashi, et al.*, Dept. of Orthop. Surg.,
 The Univ. of Tokyo Hosp., The Univ. of Tokyo···S1455
- 2-2-SY6-5 Clinical utility of comprehensive genomic profiling for bone and soft tissue tumors in
 Tokushima University *Toshihiko Nishisho, et al.*, Dept. of Orthop.,
 Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1456

12 : 10 ~ 13 : 10	Luncheon seminar 6	Moderator Y. Matsumoto
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- 2-2-LS6-1 McCune-Albright syndrome: Shepherd's crook deformity and the "hidden rickets" paradigm
 *Jungo Imanishi*, Dept. of Orthop. Surg., Teikyo Univ.···S1457
- 2-2-LS6-2 Diagnosis and treatment strategies for tumor-induced osteomalacia: A practical approach to
 avoid underdiagnosis *Robert Nakayama*, Dept. of Orthop. Surg., Keio Univ.···S1457

13 : 20 ~ 14 : 20	Legend seminar 3	Moderator N. Araki
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- 2-2-LG3-1 Patient values and the need for patient and public involvement in high grade osteosarcoma
 clinical trials
 *Hiroaki Hiraga*, Dept. of Musculoskeletal Oncology, NHO Hokkaido Cancer Center···S1458
- 2-2-LG3-2 Generating evidence in sarcoma treatment, history and future
 *Kazuhiro Tanaka*, Dept. of Advanced Medical Sciences, Oita Univ. Faculty of Medicine···S1458

14 : 30 ~ 15 : 30	Afternoon seminar 3	Moderator S. Tsukushi
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- 2-2-AS3-1 Does bone metastasis management contribute to cancer treatment?: Importance of
 maintaining PS with BMA and NPP drugs
 *Toru Akiyama*, Saitama Medical Center, Jichi Medical Univ.···S1459

2nd Day July 10 Room 3

7 : 30 ~ 8 : 30	Morning seminar 1	Moderator A. Kawai
Expanding indications for cryoablation: Expectations and clinical practice		

- 2-3-MS1-1 CT-guided ablation for bone and soft tissue tumors: Current status and future perspectives
 *Robert Nakayama*, Dept. of Orthop. Surg., Keio Univ.···S1460
- 2-3-MS1-2 Ablation therapy for musculoskeletal tumor *Koichiro Yamakado*, Hyogo Medical Univ.···S1460

8 : 40 ~ 9 : 40 Leader wisdom seminar 1 Moderator J. Nishida

- 2-3-LW1-1 Oversee and lead the field of medicine and healthcare as a specialist in bone and soft tissue tumors *Hiroyuki Kawashima*, Div. of Orthop. Surg., Niigata Univ. Graduate School of Medical and Dental Sciences...S1461
- 2-3-LW1-2 Clinical wisdom for leadership: Management insights from sarcoma care *Yoshihiro Matsumoto*, Dept. of Orthop. Surg., Fukushima Medical Univ...S1461

9 : 50 ~ 10 : 50 Educational lecture 6 Moderator K. Hiraoka

- 2-3-EL6 ISSVA classification and multidisciplinary management in interventional radiology for vascular anomalies *Keigo Osuga*, Dept. of Diagnostic Radiology, Osaka Medical and Pharmaceutical Univ...S1462

11 : 00 ~ 12 : 00 Main program 7 Moderators T. Matsunobu, M. Emori
Tumors impairing activities of daily living and quality of life: Vascular malformations

- 2-3-MO7-1 Four cases of equinus foot from venous malformation and hemangioma in the calf muscles *Toshinori Tokura, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ...S1463
- 2-3-MO7-2 Surgical resection of a non-syndromic venous malformation complicated by pulmonary embolism *Tomomi Nakahara, et al.*, Dept. of Orthop. Surg., Keio Univ...S1463
- 2-3-MO7-3 Survey on the actual state of diagnosis and treatment of vascular anomalies in orthopaedics *Akira Ogose, et al.*, Dept. of Orthop. Surg., Uonuma Kikan Hosp...S1464
- 2-3-MO7-4 Our institutional experience with the use of Sirolimus for venous malformations *Teruki Kidani, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine...S1464
- 2-3-MO7-5 Management of vascular malformations: Our experience with sirolimus therapy *Hiroaki Kimura, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences...S1465
- 2-3-MO7-6 A case of hemorrhage during sirolimus treatment for an extensive vascular tumor of the upper extremity *Taisuke Furuta, et al.*, Dept. of Orthop. Surg., Hiroshima Univ. Hosp...S1465

12 : 10 ~ 13 : 10 Luncheon seminar 7 Moderator A. Ogose
Hemangioma (Venous Malformation): From correct diagnosis to appropriate treatment

- 2-3-LS7-1 ISSVA (International Society for the Study of Vascular Anomalies) classification and how to use sirolimus *Michio Ozeki*, Dept. of Pediatrics, Graduate School of Medicine, Gifu Univ...S1466
- 2-3-LS7-2 Clinical experience in the management of vascular malformations and hemangiomas at our institution *Hiromasa Fujii*, Dept. of Orthop. Surg., Nara Medical Univ...S1466

13 : 20 ~ 14 : 20 Leader wisdom seminar 2 Moderator H. Morioka

- 2-3-LW2-1 A role of bone and soft tissue tumor committee *Koji Hiraoka*, Dept. of Orthop. Surg., Kurume Univ...S1467
- 2-3-LW2-2 Personal perspectives on the academic landscape of orthopaedic oncology *Keisuke Horiuchi*, Dept. of Orthop. Surg., National Defense Medical College...S1467

14 : 30 ~ 15 : 30 Legend seminar 4 Moderator H. Tsuchiya

- 2-3-LG4-1 Pelvic bone surgery for malignant tumors: Things to be considered *Han-Soo Kim*, Seoul National Univ. Hosp., Seoul, South Korea...S1468
- 2-3-LG4-2 For the future of bone and soft tissue tumors *Akira Kawai*, Dept. of Rehabilitation Medicine, Kanagawa Cancer Center...S1468

15 : 40 ~ 16 : 40 Main program 8

Moderators T. Takagi, S. Sugihara

Advances in bone metastasis management

- 2-3-MO8-1 The significance of active needle biopsy for bone lesions in patients with a history of malignant tumors ···· *Shunsuke Hamada, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center···S1469
- 2-3-MO8-2 SIRI and ECOG-PS as prognostic factors in pathological fractures of long bone metastases ······ *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ.···S1469
- 2-3-MO8-3 Validity and reliability of the Japanese version of the Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ) 2.0 ······ *Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ.···S1470
- 2-3-MO8-4 Nationwide survey of surgical treatment for bone metastases in Rosai hospitals: A multi-institutional study ······ *Tomoya Matsunobu, et al.*, Dept. of Orthop. Surg., Kyushu Rosai Hosp.···S1470
- 2-3-MO8-5 Inter-institutional collaboration between a cancer center and a spine center for cancer related spinal disorders ······ *Ren Nakamura, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center···S1471
- 2-3-MO8-6 Analysis of surgical management for spinal metastases from breast cancer ······ *Hisaki Aiba, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences···S1471

2nd Day July 10 Room 4

8 : 30 ~ 9 : 30 Main program 9

Moderators I. Fujita, T. Yanagawa

Advances in radiation therapy for sarcoma

- 2-4-MO9-1 Preoperative radiotherapy using protons for soft tissue sarcomas ······ *Yusuke Demizu, et al.*, Dept. of Radiation Oncology, Kobe Proton Center···S1472
- 2-4-MO9-2 Practical application of carbon ion radiotherapy for soft tissue sarcoma ······ *Masanobu Takeyama, et al.*, Dept. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center···S1472
- 2-4-MO9-3 Development of new boron delivery agents for next-generation boron neutron capture therapy (BNCT) targeting sarcomas ······ *Takuya Fujimoto, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center···S1473
- 2-4-MO9-4 Preoperative intensity modulated radiation therapy (IMRT) for soft tissue sarcoma ······ *Masahiro Yoshida, et al.*, Aichi Cancer Center···S1473
- 2-4-MO9-5 Clinical results of preoperative radiotherapy combined surgery for soft tissue sarcoma ······ *Tomooki Torigoe, et al.*, Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ.···S1474
- 2-4-MO9-6 Case control study between concurrent intra-arterial chemo-radiotherapy and other treatments for unresectable sarcoma ······ *Shunichi Toki, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center···S1474

9 : 40 ~ 10 : 40 Leader wisdom seminar 3

Moderator H. Futani

- 2-4-LW3-1 The future is in your hands: Global research collaboration for the next generation ······ *Shintaro Iwata*, National Cancer Center Hosp. East···S1475
- 2-4-LW3-2 The warp and weft of orthopaedic oncology research: JMOG's Challenges in rare diseases and nurturing the next generation ······ *Jungo Imanishi*, Dept. of Orthop. Surg., Teikyo Univ.···S1475

10 : 50 ~ 11 : 50 Main program 10 Moderators T. Hamada, M. Hakozaiki
Approaches to bone and soft tissue tumors in pediatric and AYA patients

- 2-4-MO10-1 Support for cancer patients with minor children: The role of child life specialists in a multidisciplinary team *Yukihiro Fushimi, et al.*, Dept. of Nursing, Keio Univ. Hosp. ...S1476
- 2-4-MO10-2 Long-term observation of epidemiology and survival of osteosarcoma in a rural area of Japan
 *Hiroyuki Tsuchie, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine...S1476
- 2-4-MO10-3 Skeletal muscle mass change during treatment for localized bone and soft tissue sarcomas in adolescents and young adults *Toshifumi Mitsuyama, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1477
- 2-4-MO10-4 A study of delays in referral to the specialized sarcoma center in osteosarcoma patients under the age of 20
 *Hiroshi Urakawa, et al.*, Dept. of Advanced Medicine, Nagoya Univ. Hosp. ...S1477
- 2-4-MO10-5 Sports activity restriction and return to play in children and adolescents with simple bone cysts *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1478
- 2-4-MO10-6 Clinical outcomes in patients with malignant peripheral nerve sheath tumors associated with neurofibromatosis type 1 *Naoki Oike, et al.*, Div. of Orthop. Surg., Niigata Univ. Graduate School of Medical and Dental Sciences...S1478

12 : 10 ~ 13 : 10 Luncheon seminar 8 Moderator H. Murata

- 2-4-LS8-1 Differential diagnostic points in cases presenting with osteomalacia: diagnosis and treatment of Hypophosphatasia *Itsuro Endo*, Dept. of Bioregulatory Sciences, Graduate School of Biomedical Sciences, Tokushima Univ. ...S1479

13 : 20 ~ 14 : 20 Main program 11 Moderators M. Okamoto, U. Anazawa
Clinical management of benign bone and soft tissue tumors requiring special attention

- 2-4-MO11-1 Pimicotinib in tenosynovial giant cell tumor: Longer-term outcomes from the phase 3 MANEUVER study (encore presentation)
 *Akira Kawai, et al.*, Dept. of Rehabilitation Medicine, Kanagawa Cancer Center...S1480
- 2-4-MO11-2 A multicenter phase 2 clinical trial of pimicotinib in Japanese patients with TGCT: Trial in progress (J-MANEUVER)
 *Akira Kawai, et al.*, Dept. of Rehabilitation Medicine, Kanagawa Cancer Center...S1480
- 2-4-MO11-3 Tumor-induced osteomalacia successfully treated with tumor resection
 *Yoshikuni Mimata, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ. ...S1481
- 2-4-MO11-4 Burosumab normalizes phosphate metabolism in FGF-23 related hypophosphatemic osteomalacia with McCune-Albright syndrome
 *Ayako Koda, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1481
- 2-4-MO11-5 Long-term outcomes of denosumab therapy in patients with unresectable giant cell tumor of bone *Kok Keat Tee, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1482
- 2-4-MO11-6 A case of progressive osseous heteroplasia presenting as a pediatric palmar mass
 *Tatsunobu Kobayashi, et al.*, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui...S1482

14 : 30 ~ 15 : 30 Main program 12

Moderators T. Kawamoto, K. Kikuta

Bone metastasis management: Understanding institutional differences and approaches

- 2-4-MO12-1 Early recognition of long-bone metastases by orthopaedic surgeons through team BMA and imaging-based screening *Nobuhiko Yokoyama, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1483
- 2-4-MO12-2 Retrospective study of long-term postoperative outcomes and surgical procedure selection for extremity bone metastases *Hitomi Hara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1483
- 2-4-MO12-3 The utility of the bone metastasis clinic in the management of metastatic spinal tumors at FMU hospital *Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1484
- 2-4-MO12-4 Trends in use of bone-modifying agents among patients with spinal metastases *Yu Toda, et al.*, Dept. of Orthop. Surg., Saga Univ. ...S1484
- 2-4-MO12-5 A strategy for stereotactic body radiotherapy combined with prophylactic intramedullary nailing in long-bone metastases *Shintaro Yokoyama, et al.*, Dept. of Musculoskeletal Oncology, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp. ...S1485
- 2-4-MO12-6 Efficacy of fenestrated pedicle screw fixation in surgery for metastatic spinal tumors *Fumiya Ara, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1485

15 : 40 ~ 16 : 50 Free paper 9

Moderators A. Sakamoto, Y. Kitagawa

Interpreting treatment outcomes 2

- 2-4-FP9-1 Short-term outcomes of radiofrequency ablation for osteochondroma *Yohei Sasabe, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1486
- 2-4-FP9-2 Clinical results of one-portal endoscopy-assisted surgery for enchondromas of the hands and feet *Yasuyuki Kitagawa, et al.*, Dept. of Orthop. Surg., Nippon Medical School Tama Nagayama Hosp. ...S1486
- 2-4-FP9-3 Histopathological evaluation of metastatic bone tumors after radiofrequency ablation *Nokitaka Setsu, et al.*, Dept. of Orthop. Surg., Kyushu Cancer Center ...S1487
- 2-4-FP9-4 Limited experience with arthroscopic surgery for benign bone tumors *Hiromasa Fujii, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1487
- 2-4-FP9-5 Surgical treatment of enchondroma of small bone in hand using a small-diameter endoscope: Three case reports *Takashi Noguchi, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. ...S1488
- 2-4-FP9-6 Impact of ReBOSSIS-J filling techniques on bone regeneration after curettage of hand enchondromas *Yuki Mori, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine ...S1488
- 2-4-FP9-7 A therapeutic strategy for simple bone cysts of long bones based on clinical course *Yosuke Honda, et al.*, Hamamatsu Red Cross Hosp. ...S1489
- 2-4-FP9-8 Management of atypical cartilaginous tumor of proximal humerus complicated by frozen shoulder *Yuichi Ichikawa, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ. ...S1489
- 2-4-FP9-9 Long-term outcomes of molecularly confirmed extraskeletal myxoid chondrosarcoma *Takuto Itano, et al.*, Dept. of Musculoskeletal Oncology & Rehabilitation, National Cancer Center Hosp. ...S1490
- 2-4-FP9-10 Treatment-induced bone loss on soft tissue sarcoma *Hiroataka Kurata, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S1490
- 2-4-FP9-11 Imaging findings for differentiating and predicting prognosis in undifferentiated pleomorphic sarcoma/myxofibrosarcoma *Masaya Kawaguchi, et al.*, Dept. of Radiol., Gifu Univ. ...S1491

2nd Day July 10 Room 5

8 : 40 ~ 10 : 40 Symposium 7 **Moderators A. Kawai, H. Minami**
JOA-JSTAR Joint Symposium: Fostering patient activity in rare bone and soft tissue sarcomas as rare cancers

- 2-5-SY7-1 Should we concentrate sarcoma/rare cancer care? How?
 *Takahiro Higashi*, Dept. of Public Health/Health Policy, The Univ. of Tokyo...S1492
- 2-5-SY7-2 Pathology of bone and soft tissue tumors as rare cancers
 *Kenichi Kohashi*, Dept. of Pathology,
 Graduate School of Medicine, Osaka Metropolitan Univ...S1492
- 2-5-SY7-3 A paradigm shift in clinical trials to “foster activity” in the patients with bone and soft tissue sarcoma
 *Kazuhiro Tanaka*, Dept. of Advanced Medical Sciences, Oita Univ. Faculty of Medicine...S1493
- 2-5-SY7-4 Challenges in a regional university-based sarcoma care system: Treatment outcomes by residential area in Aomori, Japan
 *Shusa Ohshika, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1493
- 2-5-SY7-5 After nine years of silence: Lives connected by social media and the truths found in bone and soft tissue sarcoma care *Manami Okouchi*, Bone and soft tissue sarcoma survivor...S1494
- 2-5-SY7-6 Patient-desired care for bone and soft tissue sarcomas
 *Terumi Oshida*, Japan Sarcoma Patients Network “TANPOPO”...S1494

10 : 50 ~ 11 : 50 Invited lecture 5 **Moderator T. Kunisada**

- 2-5-IL5 One size does not fit all: Rethinking perioperative radiotherapy in extremity soft tissue sarcoma
 *Ilkyu Han*, Dept. of Orthop. Surg., Seoul National Univ. Hosp., Seoul, Korea...S1495

12 : 10 ~ 13 : 10 Luncheon seminar 9 **Moderator D. Sakai**

- 2-5-LS9-1 The importance of interdisciplinary collaboration in multiple myeloma with vertebral fractures
 *Junya Katayanagi*, Dept. of Orthop. Surg., Dokkyo Medical Univ. Saitama Medical Center...S1495

13 : 20 ~ 15 : 10 Symposium 8 **Moderators T. Akisue, R. Nakayama**
Malignant peripheral nerve sheath tumors in neurofibromatosis type 1

- 2-5-SY8-1 Pathological diagnosis of neurofibromatosis type 1-associated tumors in the era of molecular targeted therapy *Toru Motoi*, Dept. Pathol., Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp...S1496
- 2-5-SY8-2 Orthopaedic risk factors for MPNST in NF1: A retrospective study
 *Tomoaki Mori, et al.*, Dept. of Orthop. Surg., Keio Univ...S1496
- 2-5-SY8-3 Diagnostic approach and multidisciplinary treatment strategies for NF1 related MPNST
 *Junji Wasa, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1497
- 2-5-SY8-4 Treatment for malignant peripheral nerve sheath tumor; MPNST
 *Keiko Hayakawa, et al.*, Cancer Institute Hosp. of JFCR...S1497
- 2-5-SY8-5 Patient education and multidisciplinary, multiprofessional collaboration in the early detection of NF1-related MPNST
 *Mashu Futagawa*, Dept. of Clinical Genomic Medicine, Faculty of Medicine,
 Dentistry and Pharmaceutical Sciences, Okayama Univ...S1498
- 2-5-SY8-6 Issues and measures concerning anxiety over MPNST and the consultation seeking behavior
 *Izumi Okawara*, Japanese NF1 patient group named To Smile...S1498

15 : 20 ~ 16 : 35 Panel discussion 3

Moderators T. Torigoe, N. Yamamoto

What can we learn from genomic panel testing?

- 2-5-PD3-1 Predictive value of cancer genome profiling for the efficacy of pazopanib in soft tissue sarcoma *Hidetatsu Otani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka...S1499
- 2-5-PD3-2 Comprehensive genome profiling (CGP) for pediatric and young bone and soft tissue sarcoma patients *Kenji Nakano*, Cancer Institute Hosp. of JFCR...S1499
- 2-5-PD3-3 Clinical significance of comprehensive genomic profiling in sarcoma diagnosis and treatment: A single-institution study *Shunji Nishimura, et al.*, Dept. of Orthop. Surg., Kindai Univ...S1500
- 2-5-PD3-4 Investigation of genetic mutations in vascular anomalies using cancer gene panel testing *Masato Saito, et al.*, Dept. of Orthop. Surg., Keio Univ...S1500

2nd Day July 10 Room 6

8 : 30 ~ 9 : 30

Best Presentation Award (Candidate)

Moderators S. Shimose, A. Matsumine

- 2-6-BO-1 Establishment of mouse model recapitulating dedifferentiated chondrosarcoma and analysis of IDH1/2 mutation effects *Eijiro Shimada, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ...S1501
- 2-6-BO-2 Identification of sufficient conditions for osteosarcoma development in juvenile mice *Masato Saito, et al.*, Dept. of Orthop. Surg., Keio Univ...S1501
- 2-6-BO-3 Exploring predictive biomarker for trabectedin response to achieve personalized therapy for sarcoma patients *Kenta Kono, et al.*, Div. of Rare Cancer Research, National Cancer Center Japan Research Institute...S1502
- 2-6-BO-4 Comparative analysis of tumor microenvironment in bone and spinal metastases of lung cancer and renal cell carcinoma *Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ...S1502
- 2-6-BO-5 Clinical characteristics and therapeutic interventions for bone metastases in pediatric solid tumors *Masayuki Morishita, et al.*, Dept. of Orthop. Surg., Kobe Children's Hosp...S1503
- 2-6-BO-6 Oncological outcome following treatment of periosteal osteosarcoma *Koichi Okajima, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1503
- 2-6-BO-7 Wide resection may be necessary to reduce the recurrence rate and mortality in patients with periosteal chondrosarcoma *Shinji Tsukamoto, et al.*, Dept. of Orthop. Surg., Nara Medical Univ...S1504
- 2-6-BO-8 Curettage for distal radius giant cell tumors: Fracture risk and long-term local control *Kan Ito, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1504
- 2-6-BO-9 Clinical outcomes of particle beam radiotherapy for non-sacral spinal and paraspinal sarcomas *Ryosuke Bessho, et al.*, Dept. of Radiation Oncology, Kobe Proton Center...S1505
- 2-6-BO-10 Integrated study of gait characteristics and related factors in postoperative tumor patients using multi-sensing *Itsuki Nagaoka, et al.*, Graduate School of Science and Technology, Keio Univ...S1505

9 : 40 ~ 10 : 50 Free paper 10

Moderators S. Kakunaga, M. Kito

Interpreting treatment outcomes 3

- 2-6-FP10-1 Epidemiological survey of infantile fibrosarcoma: Data from the Soft Tissue Tumor Registry of Japan *Akihito Nagano, et al.*, Dept. of Orthop. Surg., Div. of Disease Control, Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ...S1506

- 2-6-FP10-2 Outcome for soft tissue sarcoma of sciatic nerve resection
 *Tetsuya Hamada, et al.*, Dept. of Orthop. Surg., Kurume Univ.··S1506
- 2-6-FP10-3 Clinical outcomes of low-grade fibromyxoid sarcoma in Japan: A multicenter JMOG study
 *Munehisa Kito, et al.*, Dept. of Orthop. Surg., Shinshu Univ.··S1507
- 2-6-FP10-4 Long-term local recurrence outcomes in cases of atypical lipoma-like tumour resection
 *Daiki Taruta, et al.*, Dept. of Orthop. Surg., Shinshu Univ.··S1507
- 2-6-FP10-5 Fibroma of tendon sheath in the foot
 *Eiji Kozawa, et al.*, Dept. of Orthop. Surg., Nagoya Memorial Hosp.··S1508
- 2-6-FP10-6 Multimodal pain management for phantom limb pain after sarcoma amputation:
 Experience with continuous ketamine treatment
 *Taisuke Matsuyama, et al.*, Dept. of Orthop. Surg., Teikyo Univ.··S1508
- 2-6-FP10-7 A retrospective analysis of postoperative infections following wide resection for malignant
 bone and soft tissue tumors *Atsushi Mihara, et al.*, Dept. of Orthop. Surg.,
 Yamaguchi Univ. Graduate School of Medicine··S1509
- 2-6-FP10-8 Outcomes and the role of adjuvant chemotherapy in elderly patients with soft
 tissue sarcoma
 *Hirokazu Ideta, et al.*, Div. of Musculoskeletal Oncology and Orthop. Surg.,
 Tochigi Cancer Center··S1509
- 2-6-FP10-9 The predictive value of the CARG score in doxorubicin therapy for older patients with bone
 and soft tissue tumors ··· *Yusuke Sasaki, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ.··S1510
- 2-6-FP10-10 Future treatment strategies aimed at improving chemotherapy completion rates:
 An analysis of incomplete cases
 *Hanako Tsuji, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ.··S1510
- 2-6-FP10-11 Clinical experience of adjuvant eribulin chemotherapy for soft tissue sarcoma
 *Yudai Murayama, et al.*, Div. of Musculoskeletal Oncology and Orthop. Surg.,
 Tochigi Cancer Center··S1511

11 : 00 ~ 12 : 00 Free paper 11

Moderators N. Setsu, M. Tomita

The impact of appropriate surgical margins on patients' lives

- 2-6-FP11-1 Surgical decision-making for spinal tumors: Integrating spinal level, invasiveness,
 and resectability of adjacent organs
 *Akira Iwata, et al.*, Dept. of Musculoskeletal Oncology, NHO Hokkaido Cancer Center··S1512
- 2-6-FP11-2 Is quantitative margin assessment useful in myxofibrosarcoma?
 *Jun Iwatsu, et al.*, National Cancer Center Hosp.··S1512
- 2-6-FP11-3 Application of intraoperative MRI to bone and soft tissue tumor surgery at our hospital
 *Akihiro Oda, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ.··S1513
- 2-6-FP11-4 Are limb-salvage surgeries acceptable after unplanned surgery for extremity bone sarcomas
 *Liuzhe Zhang, et al.*, Dept. of Orthop. Surg.,
 aThe Univ. of Tokyo Hosp., The Univ. of Tokyo··S1513
- 2-6-FP11-5 Adequate surgical margins and local control in myxoid liposarcoma
 *Norio Kurosawa, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR··S1514
- 2-6-FP11-6 Appropriateness of R0 surgery for soft tissue sarcoma by histologic type based on gross
 margin assessment
 *Tomohiko Sakuda, et al.*, Orthop. Oncology, Dept., The Cancer Institute Hosp. of JFCR··S1514
- 2-6-FP11-7 Risk factors for postoperative hydrocele after wide resection for deep soft tissue sarcoma of
 the thigh
 *Kumiko Yotsuya, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine··S1515

- 2-6-FP11-8 Two cases of extra-articular resection for suspected intra-articular invasion of bone and soft tissue tumors of the hip *Ryoji Suzumura, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1516
- 2-6-FP11-9 Does unplanned excision worsen soft tissue sarcoma prognosis? Validation with prediction models *Seiji Shimomura, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1516

13 : 20 ~ 14 : 20 Free paper 12

Moderators S. Sato, T. Tanaka

Fostering daily life and function in patients with cancer locomotive syndrome and bone metastases 2

- 2-6-FP12-1 Can imaging redefine disseminated carcinomatosis of the bone marrow? Prognostic analysis of diffuse spinal infiltration *Kenji Sato, et al.*, Dept. of Orthop. Surg., Teikyo Univ....S1517
- 2-6-FP12-2 Characteristics and surgical selection in metastatic cervical spine tumors stratified by SINS *Takashi Hozumi, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ....S1517
- 2-6-FP12-3 Blood test parameters useful for predicting overall survival in patients with metastatic bone tumors *Ryo Satake, et al.*, Shizuoka Cancer Center...S1518
- 2-6-FP12-4 Investigation of the developmental course and management of bone metastases in renal cell carcinoma *Yasuo Yoshimura, et al.*, Dept. of Orthop. Surg., Shinshu Ueda Medical Center...S1518
- 2-6-FP12-5 Safety of percutaneous pedicle screw insertion into metastatic vertebral bodies during posterior fusion surgery *Daisuke Nakagawa, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1519
- 2-6-FP12-6 Prognostic prediction using nutritional tools for patients with bone-metastatic non-small cell lung cancer *Hiromichi Oshiro, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus...S1519
- 2-6-FP12-7 Internal fixation in femoral metastases: functional outcomes and the impact of early postoperative complications *Sei Morinaga, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ....S1520
- 2-6-FP12-8 Clinical evaluation of bone metastases in patients with multiple primary cancers *Tetsuro Yamagishi, et al.*, Niigata Cancer Center Hosp....S1520
- 2-6-FP12-9 Comparison of surgical invasiveness of intra-medullary nailing: bone metastasis vs. traumatic fracture *Masato Tomita, et al.*, Nagasaki Harbor Medical Center...S1521

14 : 30 ~ 15 : 20 Free paper 13

Moderators Y. Shido, T. Sakai

Tumor-induced osteomalacia and giant cell tumor of bone

- 2-6-FP13-1 Clinical characteristics and challenges in improving diagnostic accuracy of tumor-induced osteomalacia *Hirokazu Tanaka, et al.*, Dept. of Orthop., Juntendo Univ....S1522
- 2-6-FP13-2 A case of phosphaturic mesenchymal tumor that did not meet the diagnostic criteria for tumor induced osteomalacia *Naoyuki Hirai, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1522
- 2-6-FP13-3 Spinal decompression and radionuclide therapy for unresectable cervical FGF23-producing tumor with myelopathy *Shin Yokoyama, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ....S1523
- 2-6-FP13-4 Clinical features of FGF23-associated tumors presenting with tumor-induced osteomalacia *Yuta Kubota, et al.*, Dept. of Orthop. Surg., Oita Univ....S1523
- 2-6-FP13-5 Development of web-based nomogram predicting recurrence risk after curettage for extremity giant cell tumor of bone *Tomoya Masunaga, et al.*, Dept. of Orthop. Surg., Nara Medical Univ....S1524

- 2-6-FP13-6 Proximal tibial giant cell tumor in a young patient reconstructed using sandwich technique with raft screw fixation
*Kouhei Mitsui, et al.*, Dept. of Orthop. Surg., Yamanashi Prefectural Central Hosp.··S1524
- 2-6-FP13-7 Clinical course of giant cell tumours of bone occurring in the elderly
*Hiroto Kamoda, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center··S1525
- 2-6-FP13-8 A clinical study of patients with giant cell tumor of bone treated with long-term denosumab at our institution*Takuya Gomi, et al.*, Chiba Cancer Center ···S1525

15 : 30 ~ 16 : 10 Free paper 14 Moderators T. Yasuda, M. Ieguchi
Joint replacement strategies to improve patients' function and quality of life

- 2-6-FP14-1 Techniques for compress-type artificial joint surgery
*Yoko Hagiwara, et al.*, Chiba Cancer Center··S1526
- 2-6-FP14-2 Quantitative evaluation of bone hypertrophy at the bone prosthesis interface following compress reconstruction*Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.··S1526
- 2-6-FP14-3 Clinical outcomes of distal tibial endoprosthetic replacement for malignant bone tumors: A case series of six patients*Rie Suzuki, et al.*, Osaka International Cancer Institute··S1527
- 2-6-FP14-4 Exploratory analysis of risk factors for postoperative infection after proximal femoral replacement
*Akira Shiga, et al.*, Dept. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center··S1527
- 2-6-FP14-5 Implant salvage using continuous local antibiotic perfusion (CLAP) for infection after tumor prosthesis reconstruction*Toshiyuki Takemori, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine··S1528
- 2-6-FP14-6 Investigation of bone cement implantation syndrome for hip hemiarthroplasty in cases of malignant bone tumor of femur
*Takuya Watanabe, et al.*, Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ.··S1528

16 : 20 ~ 17 : 10 Free paper 15 Moderators E. Kozawa, R. Terauchi
Fostering patient activity through prognostic assessment 2

- 2-6-FP15-1 Prognostic value of the pectoralis muscle index in older patients with soft tissue sarcoma using preoperative chest CT*Yohei Asano, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.··S1529
- 2-6-FP15-2 Integrating FDG-PET metabolic activity and systemic inflammation for prognostic stratification in soft tissue sarcoma*Yutaka Nezu, et al.*, Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine··S1529
- 2-6-FP15-3 Preoperative albumin and outcomes in elderly soft tissue sarcoma: Real-world data analysis
*Hideki Nishimura, et al.*, Dept. of Orthop. Surg., Kagawa Univ.··S1530
- 2-6-FP15-4 Impact of COVID-19 pandemic on the prognosis of patients with bone and soft tissue sarcoma
*Suguru Fukushima, et al.*, Dept. of Orthop. Surg., Kyushu Cancer Center··S1530
- 2-6-FP15-5 Clinical characteristics and prognostic factors of metastatic undifferentiated pleomorphic sarcoma and myxofibrosarcoma*Yoshinori Imura, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka··S1531
- 2-6-FP15-6 Prognosis prediction using blood examination prior to pazopanib administration for advanced soft tissue sarcoma*Ryuta Iwanaga, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine··S1531

- 2-6-FP15-7 Incidence, clinical characteristics, and prognostic factors of renal sarcoma: A Japanese National Cancer Registry study *Hiroya Kondo, et al.*, Dept. of Orthop. Surg., Section of Medicine, Div. of Medicine, Dentistry and Pharmaceutical Sciences, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ.··S1532

2nd Day July 10 Poster Room Booth 1

8 : 30 ~ 9 : 30	Best Poster Award (Candidate)	Moderators T. Morii, T. Fujiwara
2-BP-1	Development and validation of a prognostic model for hip fractures in patients with cancer <i>Yusei Katsuyama, et al.</i> , Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine··S1533	
2-BP-2	Radiation for bone metastases enhances systemic efficacy of immune checkpoint inhibitors in non-small cell lung cancer <i>Yohei Asano, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.··S1533	
2-BP-3	Clinical significance of the spinal instability neoplastic score in predicting paralysis <i>Tomohito Hagi, et al.</i> , Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine··S1534	
2-BP-4	Impact of steroid-induced osteoporosis on fragility fractures in patients with malignant lymphoma <i>Nasa Fujihara, et al.</i> , Aichi Cancer Center··S1534	
2-BP-5	Cancer locomotive syndrome in regional core hospitals <i>Yumiko Watanabe, et al.</i> , Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui··S1535	
2-BP-6	Comparative MRI features of fibrosarcomatous and conventional dermatofibrosarcoma protuberans <i>Sakura Shiraishi, et al.</i> , Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ.··S1535	
2-BP-7	Changing landscape of comprehensive genomic profiling in bone and soft tissue tumors: C-CAT data from 2019 to 2024 <i>Satoshi Kamio, et al.</i> , Div. of Cellular Signaling, National Cancer Center Japan Research Institute··S1536	
2-BP-8	Incidence of Ewing sarcoma in Okinawa and exploratory analysis of genomic background <i>Yoshiro Yoshikawa, et al.</i> , Dept. of Orthop. Surg., Univ. of Ryukyus Hosp.··S1536	
2-BP-9	Conditional survival nomogram to predict real-time changing prognosis of chondrosarcoma: A population-based cohort study <i>Toshihide Hirai, et al.</i> , Dept. of Musculoskeletal Oncology, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.··S1537	
2-BP-10	Is 'closing the ring' better in pelvic reconstruction following excision of pelvic tumours: Systematic review <i>Tsuyoshi Mizuma, et al.</i> , Dept. of Orthop. Surg., Keio Univ.··S1537	
2-BP-11	Potential of glutaminase2 (GLS2) as a therapeutic target in synovial sarcoma and malignant peripheral nerve sheath tumor <i>Naoki Kobayashi, et al.</i> , Dept. of Orthop., Juntendo Univ.··S1538	

9 : 40 ~ 10 : 40	Poster 1 Malignant soft tissue tumors 1	Moderator K. Hayakawa
2-P1-1	Complete response of recurrent epithelioid sarcoma with pulmonary metastases treated by metastasectomy and pazopanib <i>Kyohei Ishizuka, et al.</i> , Dept. of Orthop. Surg., Div. of Disease Control, Research Field of Medical Sciences, Graduate School of Medicine, Gifu Univ.··S1539	
2-P1-2	3 cases of knee extension reconstruction surgery of bone and soft tissue sarcoma around knee using Leeds Keio ligament <i>Naotsugu Nakajima, et al.</i> , Kanagawa Cancer Center··S1539	
2-P1-3	A case report: Hybrid low-grade fibromyxoid sarcoma/sclerosing epithelioid fibrosarcoma occurring in the axilla <i>Yoshinori Takemura, et al.</i> , Dept. of Orthop. Surg., Shiga Univ. of Medical Science··S1540	

- 2-P4-4 A case of osteoid osteoma of the talus with atypical symptoms and prominent lesion leading to diagnostic difficulty*Keijiro Suetsugu, et al.*, Dept. of Orthop. Surg., Nihon Univ. Hosp.···S1549
- 2-P4-5 Nodular fasciitis initially suspected to be a schwannoma: A case report
.....*Risa Takenaka, et al.*, Muroan City General Hosp.···S1550

2nd Day July 10 Poster Room Booth 5

9 : 40 ~ 10 : 40 **Poster 5**

Moderator T. Tajima

Benign and intermediate bone and soft tissue tumors 2

- 2-P5-1 Spontaneous resolution of a solitary osteochondroma: A case report
.....*Takeo Katsumori, et al.*, Miyagi Cancer Center···S1551
- 2-P5-2 A case of giant ancient schwannoma mimicking chronic expanding hematoma
.....*Daisuke Chiba, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center···S1551
- 2-P5-3 A case of rib bone tumor resected with thoracoscopic-assisted high-speed burr
.....*Yudai Sumida, et al.*, Dept. of Orthop. Surg., Kyorin Univ.···S1552
- 2-P5-4 Lesser trochanter osteochondroma causing iliopsoas impingement: A case report
.....*Rikiya Itagaki, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1552

2nd Day July 10 Poster Room Booth 6

9 : 40 ~ 10 : 40 **Poster 6 Other malignant tumors**

Moderator K. Yamaga

- 2-P6-1 A case of squamous cell carcinoma of the left buttock arising from an epidermal cyst after a long clinical course*Wakana Kobayashi, et al.*, Mie Univ. Hosp.···S1553
- 2-P6-2 A case of diffuse large B-cell lymphoma diagnosed following multiple osteolytic lesions in the peripheral extremities*Takahiro Sugiura, et al.*, Dept. of Orthop. Surg.,
Osaka Metropolitan Univ. Graduate School of Medicine···S1553
- 2-P6-3 Clinical analysis of malignant lymphoma cases initially presenting to orthopaedic surgery
.....*Kentaro Nomura, et al.*, Dept. of Orthop. Surg., Nagasaki Univ.···S1554
- 2-P6-4 A case of intravascular lymphoma presenting with pelvic bone lesions and difficult diagnosis
.....*Ikuo Kudawara, et al.*, Dept. of Orthop. Surg.,
National Hosp. Organization Osaka National Hosp.···S1554

2nd Day July 10 Poster Room Booth 7

9 : 40 ~ 10 : 40 **Poster 7 Innovations in surgical treatment 1**

Moderator Y. Tanzawa

- 2-P7-1 A case of juvenile chondrosarcoma of the distal femur treated with liquid nitrogen-treated autogenous hemicortical graft
.....*Yasuhito Sato, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center···S1555
- 2-P7-2 A case of pubic malignant bone tumor treated with hip transposition using autologous bone achieving gait reconstruction*Chiomi Shirai, et al.*, Dept. of Orthop. Surg., Yamagata Univ.···S1555
- 2-P7-3 Achilles tendon-sparing wide resection of calcaneal chondrosarcoma followed by iliac bone block reconstruction*Kohei Aizawa, et al.*, Dept. of Orthop. Surg., Keio Univ.···S1556
- 2-P7-4 Surgical management of chronic expanding hematoma
.....*Ryo Miyagi, et al.*, Dept. of Orthop., Tokushima Prefectural Central Hosp.···S1556
- 2-P7-5 A case of second rib chondrosarcoma resected using thoracoscopic-assisted axillary approach
.....*Haruto Kunihiro, et al.*, Dept. of Orthop. Surg., Keio Univ.···S1557

- 2-P11-3 Anti-tumor effect of non-thermal atmospheric pressure plasma-activated medium on synovial sarcoma *Hana Yao, et al.*, Dept. of Orthop. Surg.,
Osaka Metropolitan Univ. Graduate School of Medicine...S1565
- 2-P11-4 A rare case of suspected paraneoplastic neuropathy during chemotherapy for extraskeletal myxoid chondrosarcoma *Nozomi Kariya, et al.*, Dept. of Musculoskeletal Surg.,
Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1565
- 2-P11-5 A procedure of CV port in the upper arm via direct visualization venipuncture *Shuichiro Suzuki, et al.*, Matsumoto Medical Center...S1566

2nd Day July 10 Room 1

18 : 00 ~ 18 : 20 **Closing ceremony**