The 38th Annual Research Meeting of the Japanese Orthopaedic Association

Congress President, Masashi Yamazaki Department of Orthopaedic Surgery, Institute of Medicine, University of Tsukuba Held in Tsukuba, October 19 and 20, 2023

1st Day October 19 Room 1

8:00 ~ Cuttin	9:20 Symposium 1 Moderators M. Koda, S. Okada g edge of treatment and reseach on spinal cord injury
1-1-S1-1	Basic research of spinal cord injury focusing on regulating the glial cells
1-1-S1-2	Human hepatocyte growth factor for acute spinal cord injury: Journey from bench to clinical trial and future perspective
1-1-S1-3	Early surgical treatment for acute spinal cord injury with a view to future spinal cord regeneration ····································
1-1-S1-4	Considerations for conducting clinical research and clinical trials in patients with spinal cord injury: Including the perspective of regulatory science <i>Takeo Furuya, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ S1534
1-1-S1-5	Early surgical treatment for traumatic cervical spinal cord injury without bone injury: Lessons we learned from the OSCIS randomized trial
1-1-S1-6	Database for spinal cord injury ····································
9:30 ~ Latest	10:50 Symposium 2 Moderators M. Nakamura, M. Watanabe regenerative medicine and cell therapy in spine and spinal cord
	regenerative medicine and cell therapy in spine and spinal cord Regenerative medicine for severe spinal cord injury using iPS cells
Latest	regenerative medicine and cell therapy in spine and spinal cord
Latest 1-1-S2-1	Regenerative medicine and cell therapy in spine and spinal cord Regenerative medicine for severe spinal cord injury using iPS cells
Latest 1-1-S2-1 1-1-S2-2	Regenerative medicine and cell therapy in spine and spinal cord Regenerative medicine for severe spinal cord injury using iPS cells
1-1-S2-1 1-1-S2-2 1-1-S2-3	Regenerative medicine and cell therapy in spine and spinal cord Regenerative medicine for severe spinal cord injury using iPS cells

11:00~	- 12:00	Special lecture 1	Moderator	M. Yamazaki
1-1-SL1		use cell therapy free from HLA-matching test and immuno		noku Univ.
12:10~	- 13 : 20	Luncheon seminar 1	Moderator	M. Matsumoto
1-1-LS1	stenosis	diagnosis and treatment of low back pain treatment include: Including the MiroTAS trial		
13:30 ~	- 13:50	Opening ceremony		
13:50~	- 14:20	Congress President lecture	Moderator	Y. Nakashima
1-1-PL		e future of our Orthopaedics	thop. Surg., Univ. o	f Tsukuba…S1540
14:30 ~	- 15:30	Special lecture 2	Modera	tor A. Okawa
1-1-SL2	Fusion o	s medical and health care innovation -Cybernics in orthops of bio-medical systems and AI-robotics/information system 	ns- ng, Information and	
15:40 ~ Latest		Symposium 3 Mode ive medicine and cell therapy in knee joint	erators K. Nakat	a, Y. Ishibashi
1-1-S3-1	osteoar double-	ctiveness of leukocyte-poor platelet rich plasma injections of the knee in the Japanese population: A prospective blinded, placebo-controlled clinical trial Tomokazu Yoshioka, et al., Div. of Regen Med. for Musc	ve, randomized, culoskeletal, Univ. o	f Tsukuba⋯S1541
1-1-S3-2 1-1-S3-3	•••••	ative therapy for osteoarthritis of the knee using chondroc	Surgical Science, T	
	cells in	cartilage repair: Clinical trialNorimasa Nakamura, et al., Institute f	or Medical Science	
1-1-S3-4		ous chondrocyte implantation with correction osteotomy		
1-1-S3-5		s repair with cell transplantationIchiro Sekiya, et al., Center for Stem Cel Tol	l and Regenerative kyo Medical and De	
17: 10 ~ Cuttin		Symposium 4 I robot technology on joint surgery	Moderators N. S	ugano, Y. Niki
1-1-S4-1		normal brought about by robotic-arm assisted total knee a		nori Hosp …S1544
1-1-S4-2	Accuracy robotic	of bone resection and validation of joint gap evaluation to system	ol for TKA with RO	SA

1-1-S4-3	Dawn of switchover in surgical procedure of total knee arthroplasty by VELYS Robotic-Assisted Solution ···· <i>Tadashi Fujii, et al.</i> , Orthop. surgery, Kashiba Asahigaoka Hosp.···S1545
1-1-S4-4	Accuracy of robotic-assisted total knee arthroplasty and early clinical outcomes: Comparison
	between Navio and Rosa · · · · · · · · Masahiro Hasegawa, et al., Dept. of Musculoskeletal Surg.,
1_1_0/_5	Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine\$1545
1-1-S4-5 1-1-S4-6	Mako robotic THA ··········Atsuko Sato, et al., Dept. of Orthop Surg., Nissan Tamagawa Hosp.···S1546 Short-term results of THA in supine position with Rosa Hip Robotic System
11010	······································
	Restorative Medicine of Neuro-Musculoskeletal System, Fujita Health Univ.···S1546
	1st Day October 19 Room 2
8:00~9	9:00 Instructional lecture 1 Moderators H. Tsuchiya, M. Takagi
1-2-EL1-1	Silver-hydroxyapatite coated implants for prevention of periprosthetic joint infection: From bench to practice
1-2-EL1-2	Next generation orthopaedic implants
	Innovative Implant Development (Fracture Healing), Saarland Univ., Saarland, Germany \cdots S1547
9:10~1	10:30 GJSOT Symposium 1 Moderators D. Pennig, M. Neo
New te	echnology-1 (Spine & Joint)
1-2-GS1-1	
1-2-GS1-2	Clinical cases of lateral lumbar disc herniation and postoperative recurrent lumbar disc
	herniation successfully treated with novel intradiscal condoliase injection
1-2-GS1-3	
1 2 001 0	prospective study ····· Francis Ch. Kilian, SPINE Center, Catholic Hosp. Koblenz, Germany···S1549
1-2-GS1-4	Effect of medial stabilizing technique on kinematics in total knee arthroplasty using the navigation system
	······ Eiji Sasaki, et al., Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine···S1549
1-2-GS1-5	Influence of the patella position on patellofemoral joint biomechanics after total knee arthroplasty: Computer-based study
1-2-GS1-6	Orthop. Univ. Hosp., Rostock Univ. Medical Center, Rostock, Germany…S1550 Indications for arthroscopic superior capsule reconstruction using fascia lata autograft and
1 2 001 0	risk factors for a postoperative graft tear
	···· Akihiko Hasegawa, et al., Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ.···S1550
1-2-GS1-7	(Withdrawn)
10:40~	12:00 GJSOT Symposium 2 Moderators T. Pohlemann, Y. Ishibashi
New te	chnology-2 (Trauma & Space Medicine)
1-2-GS2-1	Japan-style posterior pelvic ring fixations for unstable pelvic ring fracture patients
1-2-GS2-2	Treatment strategy for the high energy tibial plateau fracture
	····· Masanori Yorimitsu, et al., Dept. of Musculoskeletal Traumatology, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S1552
1-2-GS2-3	Outcomes of arthroscopic bone grafting and screw fixation for scaphoid nonunion

1-2-GS2-4	Musculoskeletal research: Transfer from spaceflight to traumatology
	Bergita Ganse, Innovative Implant Development (Fracture Healing),
	Saarland Univ., Saarland, Germany…S1553
1-2-GS2-5	Effect of the hybrid training method on the disuse atrophy of the musculoskeletal system of
	the astronauts staying in the international space station for a long term: How to obtain
	mechanical stress on the human musculoskeletal system in the space
1 0 000 0	
1-2-GS2-6	Modern fracture treatment and visions for future developments
	Saarland Univ. Hosp. and Medical Faculty of Saarland Univ., Saarland, Germany…S1554
1-2-GS2-7	(Withdrawn)
12:10~	- 13: 20 Luncheon seminar 2 Moderator S. Harada
1-2-LS2	Optimization of osteoporosis treatment: The role that bone-forming agents should play
1 - 202	
	Graduate School of Medicine, Osaka Univ.···S1556
14:30 ~	15:30 Symposium 5 Moderators A. Matsumine, S. Iwata
Ortho	paedic surgeon-initiated clinical trials on bone and soft tissue tumors
1-2-S5-1	Design and conducting a physician-initiated clinical trial (REALIZE study) of zaltoprofen for
1 2 50 1	tenosynovial giant cell tumor ····································
1 0 05 0	Graduate School of Medical Sciences, Kanazawa Univ.···S1557
1-2-S5-2	From basic to translational research of originally-developed oncolytic adenovirus aimed for
	investigator-initiated clinical trial · · · · · · · · · Satoshi Nagano, et al., Dept. of Physical Therapy,
	School of Health Sciences, Faculty of Medicine, Kagoshima Univ.···S1557
1-2-S5-3	Challenges in investigator-initiated clinical trials for rare advanced-stage malignant
	musculoskeletal tumors ········Robert Nakayama, et al., Dept. of Orthop. Surg., Keio Univ. ··· S1558
1-2-S5-4	Points to keep in mind in investigator-initiated clinical trials for bone and soft tissue tumors:
	From my experience of working in PMDA
15:40 ~	17:00 Symposium 6 Moderators Y. Kawaguchi, S. Imagama
	g edge of treatment and reseach on ossification of spinal ligament
1-2-S6-1	Whole spine CT data, including differences between AS and DISH
1-2-S6-2	Spinal fracture in the patients with diffuse idiopathic skeletal hyperostosis:
	Multicenter prospective study ······· Yohei Takahashi, et al., Dept. of Orthop. Surg., Keio Univ. ··· S1559
1-2-S6-3	Surgical treatment of cervical ossification of the posterior longitudinal ligament: Evidence from
	prospective observational study ······ Toshitaka Yoshii, Dept. of Orthop. Surg.,
	Tokyo Medical and Dental Univ. Graduate School of MedicineS1560
1-2-S6-4	Neuropathic pain in patients with postoperative cervical ossification of posterior
	longitudinal ligament ······ Masayuki Miyagi, et al., Dept. of Orthop. Surg., Kitasato Univ. ··· S1560
1-2-S6-5	Frontiers of thoracic OPLL/OLF research ········· Hiroaki Nakashima, et al., Dept. of Orthop./
	Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
	Graduate School of Medicine, Nagoya Univ.···S1561
1-2-S6-6	Patient and public involvement (PPI) research advances spinal ligament ossification research
1 2 30 0	
	Faculty of Medicine and Graduate School of Medicine, Hokkaido UnivS1561

17:10~	18:30	SOFJO Symposium	Moderato	ors P. Hernigou, S. Imai
1-2-SS-1	bilater	t bearing surfaces on each side have	····· Philippe Hernigou, Univ.	of Paris, Paris, France…S1562
1-2-SS-2		g the primary stability of the aceta es: A cadaveric study······	G Multiscale Modeling and S	uillaume Haiat, et al., imulation Laboratory,
1-2-SS-3		emission to avoid complications in		Relay baton from
1-2-SS-4	RANK e	s Lisfranc ····································	s of osteosarcoma in a mouse x	enograft model
1-2-SS-5	Dynamic	c analysis of the ulnar nerve and cuveric study ··········Hideo Hasegar	bital tunnel morphology using	ultrasonography;
		1st Day Octo	ober 19 Room 3	
8:00~	9:00	nstructional lecture 2	N	Moderator N. Miyakoshi
1-3-EL2		nce of tissue maturation and aging	of Orthop. Surg., The Jikei Uni	iv. School of Medicine…S1565
9:10 ~ Scient		Symposium 7 ch on lumbar spondylolysis	Moderators	K. Sairyo, M. Tatsumura
1-3-S7-1	spondy	affecting the bone union after consololysis: Multivariable analyses on 2Hisanori Gan	17 cases/298 lesions in a retros	spective cohort study
1-3-S7-2	•••••	of lumbar spondylolysis by sagittal ······ <i>Noriyuki Iesato</i> ,	et al., Dept. of Orthop. Surg., S	
1-3-S7-3		tive assessment of bone marrow editic resonance imaging	····· Toshio Nakamae, et al., D	Oept. of Orthop. Surg.,
1-3-S7-4		Graduate School nce of lumbar spondylolysis from 6 Kinshi Kato, et c		
1-3-S7-5	The scie	nce of lumbar spondylolysis from e	exercise therapy	
1-3-S7-6	Scientific	e research of surgical results in lun	nbar spondylolysis: Selection of	surgical methods
			medical Sciences, Tokushima U	
10:40 ~ Novel		Symposium 8 or avascular necrosis of the fem		T. Yamamoto, T. Sakai
1-3-S8-1	•	one repair against osteonecrosis d ······ Ryosuke Yamaguchi, et al., I		
1-3-S8-2	A new th	erapeutic strategy using anti-IL-6 aNobuhiro Kamiya, et al., Gradu	ntibody for Perthes disease in	adolescence
1-3-S8-3	The effe	ct of cell-based immunomodulatory I head: A translational study in rabl	therapy for the early stage of o	
		····· Masahiro Ma	ruvama et al Dept of Orthon	Surg Stanford Univ\$1570

1-3-S8-4	idiopathic os	teonecrosis of fe	rated autologous bone marro moral head and its applicatio ····· Yohei Tomaru, et al., Dep	n to Perthes disease	2
1-3-S8-5	Regenerative	therapy using rh	FGF-2 gelatin hydrogel for av	ascular osteonecros	sis
1-3-S8-6	A study to pre	vent the develop	Dept. of Orthop. Surg., Gradu ment of osteonecrosis of the Goro Motomura, et al., Dept Graduate Schoo	femoral head by adv . of Artificial Joints a	vanced
12:10	~ 13 : 20 Lur	ncheon seminar	r 3	M	oderator N. Adachi
1-3-LS3			the pathophysiology, diagno	<i>hiro Nishida,</i> Dept. ctional Recovery and	of Orthop. Surg., I Reconstruction,
14:30	~ 15 ∶ 30 Fre	e papers Oste	eoarthritis: Pathology	Moderators	T. Otani, K. Urabe
1-3-1	3 in osteoarthrit	ic knee joints un	te cartilage degeneration thro dergoing synovial flare ···Nobuho Tanaka, et al., Clin	nical Research Cente	
1-3-2		ne remodeling a	e pyroptosis signaling in oste ctivation in OA ·······Yuki (ty of Medicine and Graduate	eocytes: A study high Ogawa, et al., Dept.	hlighting of Orthop. Surg.,
1-3-3		expressed in sync	ovial tissue of female osteoart ······Naoya Shibata, et al., I	thritis patients	
1-3-4	Examination of ef	fectiveness of ur	inary O-glycosylated hydroxy n <i>Tomura, et al.</i> , Dept. of Me	ylysine as a new biod dicine for Orthop. a	marker for
1-3-5			sion in synovium of hip osteo: ······ <i>Maho Tsuchiya, et al.</i> , I		
1-3-6	FNIII14 in degene	erated cartilage i	s involved in the pathogenesi ······ Fumihiro Nishimura, e	is of osteoarthritis	
1-3-7	Elucidation of the	ept. of Multimod mechanism(s) c	lality Therapy for Cancer, Mi contributing to angiogenesis i 	e Univ. Graduate Sci in synovium in osteo Tsuno, et al., Dept. c	hool of Medicine…S1575 parthritic
15:45	~ 16:55 Afte	ernoon seminar	r 1		Moderator Y. Shiga
1-3-AS1	=		for patients with osteoporosis ·····Kousei Miura, et al., Dep	_	
17:10	~ 18:10 Ins	tructional lectu	re 3	Moderators	M. Doita, T. Aizawa
1-3-EL3- 1-3-EL3-	-2 Robotic spin	Tsutomu Akazaw e surgery: Wher	of robotic-assisted spine surga, Dept. of Orthop. Surg., Steware today and where we neeraz A. Qureshi, Orthop. Steware	. Marianna Univ. Sc hope to go urg., Minimally Inva	

1st Day October 19 Room 4

Graduate School of Medicine, Osaka Univ -4-S9-2 Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis	-4-S9-4 Cyt4-S9-5 Noo 0 -4-S9-6 Glu 10: 40 ~ 12: Cutting edg -4-S10-1 Fr4-S10-2 In	Niigata Univ. Graduate School of Medical and Dental Sciences···S158 vel OA targets (GRK5 and IKK£) that regulate the NF-£B pathway and development of new OA drugs using Amlexanox ········ Yukio Akasaki, et al., Dept. of Orthop. Surg., Kyushu Univ.···S158 acose metabolism in cartilage and tendon degeneration ····Shuji Asai, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S158 100 Symposium 10 Moderators S. Imai, N. Taniguchi 100 ge of treatment and reseach on shoulder joint disease 101 resembly resembly acost of Medicine, Chiba Univ.···S158 102 integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S158 103 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 104 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 105 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 106 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 107 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 108 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 109 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 integrated Medicine, Graduate School of Medicine, Chiba Univ.···S158 100 int
Graduate School of Medicine, Osaka Univ -4-S9-2 Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis	-4-S9-4 Cyt4-S9-5 Nor O -4-S9-6 Glu 10:40 ~ 12: Cutting edg -4-S10-1 Fr	tokine networks in the pathogenesis of rheumatoid arthritis
Graduate School of Medicine, Osaka Univ Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis	-4-S9-4 Cyt4-S9-5 Noo O-4-S9-6 Glu10:40 ~ 12:	tokine networks in the pathogenesis of rheumatoid arthritis
Graduate School of Medicine, Osaka Univ Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis	-4-S9-4 Cyt -4-S9-5 No O -4-S9-6 Glu	tokine networks in the pathogenesis of rheumatoid arthritis
Graduate School of Medicine, Osaka Univ.··· -4-S9-2 Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis	-4-S9-4 Cyt -4-S9-5 Noo	tokine networks in the pathogenesis of rheumatoid arthritis
Graduate School of Medicine, Osaka Univ Graduate School of Medicine, Osaka Univ Graduate School of Medicine, Osaka Univ Koichi Murata, et al., Dept. of Advanced Medicine for Rheumatic Diseases, Graduate School of Medicine, Kyoto Univ The role of semaphorin 3G in arthritis	-4-S9-4 Cyt -4-S9-5 No	tokine networks in the pathogenesis of rheumatoid arthritisNaoki Kondo, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental SciencesS158 vel OA targets (GRK5 and IKK) that regulate the NF-kB pathway and development of new
Graduate School of Medicine, Osaka Univ Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis	 -4-S9-4 Cyt	tokine networks in the pathogenesis of rheumatoid arthritis
Graduate School of Medicine, Osaka Univ -4-S9-2 Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis		Vana Kanagai et al. Dont of Orthon Sura Craduate School of Medicine Chiha Univ. S159
Graduate School of Medicine, Osaka Univ.··- 4-S9-2 Osteoclast differentiation and inflammatory bone resorption by LSD1-HIF1A axis		e role of semaphorin 3G in arthritis
Graduate School of Medicine, Osaka Univ.···		
		nitigation strategies ··· Kosuke Ebina, et al., Dept. of Musculoskeletal Regenerative Medicine, Graduate School of Medicine, Osaka Univ.···S158 teoclast differentiation and inflammatory hope resorption by LSD1-HIF1A axis
Cutting edge of treatment and reseach on arthritis -4-S9-1 Mechanisms of joint destruction associated with rheumatoid arthritis and its		

14 . 30	$0 \sim 15 : 30$	Free papers	Surgery: Extremity 1	Moderators T. Okawa, I	N. Ochiai
1-4-1	acromiocla	vicular joint dis	ligament and coracoclavicular lig location: A cadaveric study et al., Dept. of Orthop, Surg., G	gament resection on stability in raduate School of Medicine, Chiba U	Jniv.···S1587
1-4-2	Wide awake active con	surgery study a traction distance	as a basis for tendon transfer: Pa e, and characteristics of contrac	ssive distraction distance,	
1-4-3		_	ith haptic feedback get closer to hi Ichihara, et al., Dept. of Ortho	the microsurgeon's hand? op. Surg., Juntendo Univ. Urayasu H	ospS1588
1-4-4	Analysis of o	changes in wrist	joint contact area before and aft		urg.,
1-4-5			en perforators and motor nerve l ···Hiroshi Okada, et al., Susumu	oranches in anterolateral thigh Tamai Memorial Limb Trauma Cer Nara Medical Univ. H	
1-4-6			Tomoyul	P joint and hallux valgus angle in <i>ii Nakasa, et al.</i> , Dept. of Orthop. Su al and Health Sciences, Hiroshima U	
1-4-7			penia with spinopelvic mobility a et al., Dept. of Orthop. Surg., O	ufter total hip arthroplasty saka Medical and Pharmaceutical U	Jniv.···S1590
15:45	5 ~ 16:55	Afternoon se	minar 2	Moderator	Г. Ainoya
1-4-AS2			agility fractures in the elderly: E	vidence-based practice ····· <i>Hiroshi Hagino,</i> Sanin Rosai H	ospS1591
17:10	$0 \sim 18:10$	Instructional	l lecture 5	Moderator T. M	Miyamoto
17:10 1-4-EL5	Molecula	r mechanism of	bone metabolism and clinical ap Orthop. Surg., Sensory and Mo		aces,
	Molecula	r mechanism of	bone metabolism and clinical ap Orthop. Surg., Sensory and Mo	oplications for System Medicine, Surgical Scien School of Medicine, The Univ. of To	aces,
1-4-EL5	Molecula	r mechanism of Sakae Tanaka, [Symposium 11	bone metabolism and clinical ap Orthop. Surg., Sensory and Mot Graduate	oplications or System Medicine, Surgical Scien School of Medicine, The Univ. of To	ices, okyo…S1591
1-4-EL5	Molecula	r mechanism of Sakae Tanaka, Symposium 11 treatment and	orthop. Surg., Sensory and Mor Graduate 1st Day October 19 R reseach on osteoarthritis of osteoarthritis among Japanese company of the control of the cont	pplications or System Medicine, Surgical Scient School of Medicine, The Univ. of To Coom 5 Moderators Y. Tanaka the foot ommunity dwellers , Dept. of Orthop. and Sports Medicine	aces, okyo…S1591 a, H. Niki
1-4-EL5 8:00 Cut	~ 9 : 20	r mechanism of Sakae Tanaka, Symposium 11 treatment and tiology of ankle ctors for the program of the program	orthop. Surg., Sensory and Mor Graduate 1st Day October 19 R reseach on osteoarthritis of osteoarthritis among Japanese of control of the c	pplications or System Medicine, Surgical Scient School of Medicine, The Univ. of To Coom 5 Moderators Y. Tanaka the foot ommunity dwellers , Dept. of Orthop. and Sports Medic Mie Univ. Graduate School of Medicine	aces, okyo···S1591 a, H. Niki cine, cine···S1592
8:00 Cut 1-5-S11-	~ 9 : 20	r mechanism of Sakae Tanaka, Symposium 11 treatment and aiology of ankle externs for the programmative evaluation	orthop. Surg., Sensory and Mor Graduate 1st Day October 19 R reseach on osteoarthritis of osteoarthritis among Japanese o Akinobu Nishimura, et al. gression of advanced varus ankle Hiroaki Kurokawa, et al., De of ankle instability that causes of	pplications for System Medicine, Surgical Scient School of Medicine, The Univ. of To Room 5 Moderators Y. Tanaka the foot ommunity dwellers Dept. of Orthop. and Sports Medic Mie Univ. Graduate School of Medic e osteoarthritis of. of Orthop. Surg., Nara Medical Universe	aces, okyo···S1591 a, H. Niki cine, cine···S1592 Jniv····S1592
8:00 Cut 1-5-S11-	~ 9 : 20	r mechanism of Sakae Tanaka, Symposium 11 treatment and tiology of ankle ctors for the promative evaluation and the same arthroplasts.	reseach on osteoarthritis of osteoarthritis among Japanese common of advanced varus ankle of ankle instability that causes of a dyanate of ankle instability that causes of a dyanate of a	pplications or System Medicine, Surgical Scient School of Medicine, The Univ. of To Moderators Y. Tanaka the foot munity dwellers Dept. of Orthop. and Sports Medic Wie Univ. Graduate School of Medic e osteoarthritis of Orthop. Surg., Nara Medical University of Orthop. Surg., Sapporo Medical University	ices, okyo···S1591 i., H. Niki cine, cine···S1592 Jniv····S1593 tion,

1-5-S11-6		round and future perspective of late , Dept. of Orthop. Surg., Dokkyo M		
9:30~	10:50 Symposium	2 New imaging technology	Moderators	Y. Inaba, H. Mishima
1-5-S12-1	longitudinal ligamen	omosynthesis in diagnosing cervica t: A comparative study with other in t al., Dept. of Orthop. Surg., Hirosa	maging modalities	
1-5-S12-2	Evaluation of bone rea	ction around the implant using digi Sho Totsuka, et al., Dep	ital tomosynthesis	
1-5-S12-3	High resolution periph	neral quantitative CT… <i>Kazuteru Sl</i> Nagasaki Univ. Gra		ot. of Orthop. Surg., Siomedical Sciences···S1596
1-5-S12-4		ging in orthopaedic infections		uloskeletal Science, School of Medicine…S1596
1-5-S12-5	for osteochondritis d	nation and surgical planning using 3 issecans of the elbow	3 dimensional MR	I-CT fusion images
1-5-S12-6	Artificial intelligence f	··· Sho Kohyama, et al., Dept. of Ort or ultrasound imaging in hand surg i, et al., Dept. of Orthop. Surg., Kol	gery	
11:00~	12:00 Best oral se	ssion	Moderat	ors E. Chosa, H. Niki
1-5-BO-1	depth sensor imaging	deep learning convolutional neural g in scoliosis detection: In order to a mild AIS patients ······· Terufumi Faculty of Medicine and Graduate	avoid the detection <i>Kokabu, et al</i> ., De _l	of false positive ot. of Orthop. Surg.,
1-5-BO-2	expression and enha	I therapeutic drug candidate for ost uncing chondrogenic and anti-inflan a, et al., Tokyo Metropolitan Geriatr	eoarthritis by upr nmatory/catabolic	egulating KLF4 effects
1-5-BO-3		and phosphorus metabolism in cho , <i>et al.</i> , Dept. of Orthop. Surg., Facu		es, Kumamoto Univ.···S1599
1-5-BO-4	mesenchymal cells \cdots	eage of human induced pluripotent s 	, et al., Dept. of Re	generative Science,
1-5-BO-5	Effectiveness of zinc c	helators for skeletal muscle fibrosis ome · · · · · · <i>Yohei Haruta, et al.,</i> Dep	s of the affected lin t. of Orthop. Surg	nb in the chronic
1-5-BO-6	of achondroplasia · · ·	the spinal canal stenosis and atteno 	uates the paralysis t al., Dept. of Orth urg., Program in Ir	in a mouse model op./Rheumatology,
12:10~	13:20 Luncheon s	eminar 5	N	Moderator S. Matsuda
1-5-LS5		knee arthroplasty for personalized Takafumi Hiranaka, Dept. of	Orthop. Surg. and	

1-5-1	····· Yuichi Miyairi, et al., I	Dept. of Orthop./Rheumatology	euromuscular junction (NMJ) function y, Musculoskeletal and Cutaneous Surg., duate School of Medicine, Nagoya Univ.···S1602
1-5-2	Novel myokines which expre	ession are commonly regulatedYusuk	in primary and secondary sarcopenia the Masuda, et al., Dept. of Orthop. Surg., al and Dental Sciences, Kagoshima Univ.··S1602
1-5-3		n-6/STAT-3/autophagy axis in s	· –
1-5-4	Association between aging-re	elated sarcopenia and eicosanoi	ids/docosanoids of skeletal muscle
	in mice ·····		Kadoguchi, et al., Dept. of Life Sciences,
			of Arts and Sciences, The Univ. of Tokyo…S1603
1-5-5		al changes in relation to NAD+	
1 5 6			g., Faculty of Medicine, Univ. of Toyama···S1604
1-5-6	adenine-induced chronic ki	al muscle atrophy and mitochon	idriai activity iii a rat modei oi
			Akita Univ. Graduate School of Medicine…S1604
1-5-7			improves muscle endurance and
		rat model of chronic kidney di	
		liroyori Fusagawa, et al., Dept. o	of Orthop. Surg., Sapporo Medical Univ.···S1605
15:4	5 ~ 16 ∶ 55 Afternoon ser	minar 3	Moderator Y. Tanaka
1 E ACC	Treatment of homorphilia	outhus nother in alinical numerics	
1-5-AS3	reaument of nemophine	arthropathy in clinical practice	
	••••••	·····Nobunori Takahashi, Dep	pt. of Orthop. Surg., Aichi Medical Univ.···S1606
17:1	0 ~ 18 : 10 Instructional		pt. of Orthop. Surg., Aichi Medical Univ.···S1606 Moderators Y. Uchio, K. Takahashi
17:1 1-5-EL6	$0 \sim 18:10$ Instructional	lecture 6	Moderators Y. Uchio, K. Takahashi
	$0 \sim 18:10$ Instructional G-1 Cell therapy as a point of	lecture 6 of care for osteoarthritis of the l	Moderators Y. Uchio, K. Takahashi
	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7	lecture 6 of care for osteoarthritis of the l ······Masato Sato, Dept. of Orth Γhe future of PRP in orthopaedi	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective nop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery
1-5-EL6	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7	lecture 6 of care for osteoarthritis of the l ······Masato Sato, Dept. of Orth Γhe future of PRP in orthopaedi	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai Univ.···S1607
1-5-EL6	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7	lecture 6 of care for osteoarthritis of the l ·····Masato Sato, Dept. of Orth Γhe future of PRP in orthopaedi ······Mikel S	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective nop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery
1-5-EL6	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7	lecture 6 of care for osteoarthritis of the l ·····Masato Sato, Dept. of Orth Γhe future of PRP in orthopaedi ······Mikel S	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit,
1-5-EL6	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7	lecture 6 of care for osteoarthritis of the l ·····Masato Sato, Dept. of Orth Γhe future of PRP in orthopaedi ······Mikel S	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai UnivS1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, SpainS1607
1-5-EL6	0 ~ 18: 10 Instructional G-1 Cell therapy as a point of and appropriate? G-2 PRP therapies update: 7	Decture 6 of care for osteoarthritis of the lower form of the lower form of the future of PRP in orthopaedis form of the lower form of the future of PRP in orthopaedis form of the future of PRP in orthopaedis form of the lower	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai UnivS1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, SpainS1607
1-5-EL6 1-5-EL6 8:00	0 ~ 18:10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 1 6-3 PRP therapies update: 1 6-4 PRP therapies update: 1 6-5 PRP therapies update: 1 6-6 PRP therapies update: 1 6-7 PRP therapies update: 1 6-7 PRP therapies update: 1 6-8 PRP therapies update: 1 6-9 PRP	lecture 6 of care for osteoarthritis of the lMasato Sato, Dept. of Orth The future of PRP in orthopaediMikel S Unidad de Cirugía A 1st Day October 19 R tisk management, others	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai UnivS1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, SpainS1607 Room 6 Moderators K. Hiraoka, M. Takahashi
1-5-EL6	0 ~ 18: 10 Instructional G-1 Cell therapy as a point of and appropriate? · · · · · · · · · · · · · · · · · · ·	lecture 6 of care for osteoarthritis of the low-Masato Sato, Dept. of Orth The future of PRP in orthopaedi	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, Spain···S1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; orthop., Institute of Biomedical Sciences,
1-5-EL6 1-5-EL6 8:00	0 ~ 18: 10 Instructional 3-1 Cell therapy as a point of and appropriate? 5-2 PRP therapies update: 1 - 9:00 Free papers R Reduction technique for occur A cadaveric study Kaza	lecture 6 of care for osteoarthritis of the low-Masato Sato, Dept. of Orth The future of PRP in orthopaedi	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective nop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, Spain···S1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1608
1-5-EL6 1-5-EL6 8:00 1-6-1	0 ~ 18: 10 Instructional 3-1 Cell therapy as a point of and appropriate? 5-2 PRP therapies update: 2 - 9:00 Free papers R Reduction technique for occurrence A cadaveric study Kaza Long-term effects of diffuse A longitudinal analysis	lecture 6 of care for osteoarthritis of the l	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, Spain···S1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1608 s on physical function:
1-5-EL6 1-5-EL6 8:00 1-6-1	0 ~ 18:10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 1 6 ~ 9:00 Free papers R Reduction technique for occur A cadaveric study Kaza Long-term effects of diffuse A longitudinal analysis Tomohiro Ban	lecture 6 of care for osteoarthritis of the l	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai UnivS1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, SpainS1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate SchoolS1608 is on physical function:
1-5-EL6 1-5-EL6 1-6-1 1-6-2	0 ~ 18:10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 1 6-2 PRP	lecture 6 of care for osteoarthritis of the lower Masato Sato, Dept. of Orth The future of PRP in orthopaedi Mikel S Unidad de Cirugía A 1st Day October 19 R Lisk management, others upational radiation exposure du ata Yamashita, et al., Dept. of O idiopathic skeletal hyperostosis no, et al., Dept. of Orthop. Surg (AI) analysis of answers to the	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai UnivS1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, SpainS1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate SchoolS1608 is on physical function:
1-5-EL6 1-5-EL6 1-6-1 1-6-2	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7 7 ~ 9:00 Free papers R Reduction technique for occur A cadaveric study Kaza Long-term effects of diffuse A longitudinal analysis Tomohiro Ban Large-scale language model ChatGPT vs. GPT-4	lecture 6 of care for osteoarthritis of the low-Masato Sato, Dept. of Orth The future of PRP in orthopaedi	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai UnivS1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, SpainS1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate SchoolS1608 s on physical function: g., Hamamatsu Univ. School of MedicineS1608 National Medical Examination
1-5-EL6 1-5-EL6 1-6-1 1-6-2	0 ~ 18: 10 Instructional 6-1 Cell therapy as a point of and appropriate? 6-2 PRP therapies update: 7 7 ~ 9:00 Free papers R Reduction technique for occur A cadaveric study Kaza Long-term effects of diffuse A longitudinal analysis Tomohiro Ban Large-scale language model ChatGPT vs. GPT-4	lecture 6 of care for osteoarthritis of the l	Moderators Y. Uchio, K. Takahashi knee: Is the treatment effective hop. Surg., Surgical Science, Tokai Univ.···S1607 ic surgery Sánchez, et al., Arthroscopic Surg., Unit, Artroscópica, S.L., Vitoria-Gasteiz, Spain···S1607 Room 6 Moderators K. Hiraoka, M. Takahashi uring fluoroscopic spine surgery; brthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1608 son physical function: g., Hamamatsu Univ. School of Medicine···S1608 National Medical Examination Nakahara, et al., Dept. of Orthop. Surg.,

 $14:30 \sim 15:30$

Free papers Sarcopenia

Moderators T. Arai, E. Tsuda

1-6-4	Effect of metformin administration on knee joint capsule				
1-6-5	Telemedicine using ultrasonography and telerehabilitatio aging and depopulated mountainous area ··································	Telemedicine using ultrasonography and telerehabilitation with 5G communication system in aging and depopulated mountainous area ··································			
1-6-6	Nutritional status can be a substitute index for swallowing Kentaro Sato, et al., Dept. of Orthop. Sur	g status			
1-6-7	Trial of social implementation of healthcare services thro				
9:15	5 ~ 10:15 Free papers Biomaterials 1	Moderators Y. Musha, H. Mutsuzaki			
1-6-8	Efficacy of Nanoclay gel as a novel carrier for BMP2 Takuya Furuichi, et al., Dept. of Orthop. Surg.,	Graduate School of Medicine, Osaka Univ.···S1612			
1-6-9	The best reference gene of RT-qPCR analyses for the th of human induced pluripotent stem cells				
1-6-10	Osseointegration onto implant with polymeric surface m				
1-6-11	Evaluation of bioabsorbable headless compression screv In vivo study of their degradation and interaction with	bone			
1-6-12		ility and antibacterial properties of			
1-6-13	polyhydroxyalkanoates: Through the development of aAtsuhiko Murayama, et al., Dept. of Hand Su	absorbable monofilament sutures			
1-6-14	Development of a new silk biomaterial to prevent post-op				
10:3	$30 \sim 11:30$ Free papers Biomaterials 2	Moderators T. Jinno, H. Kawashima			
1-6-15	Improvement of osseointegration by amin modification of				
1-6-16	Reducing effects of terminally g-sterilized implants coate calcium phosphate on impaired bone formation				
1-6-17	Radiological and histological evaluation of bone repair englatin porous composite on refractory bone defects in Ryuichi Kanabuchi, et al., Dept. of Orthop. Surg., 7	n rat femur			
1-6-18		y bioabsorbable coils			
1-6-19	An innovative drug delivery system for bone regeneration molecular weight heparin ····· Naoya Iwata, et al., Dept	on using acidic-peptide conjugated low			

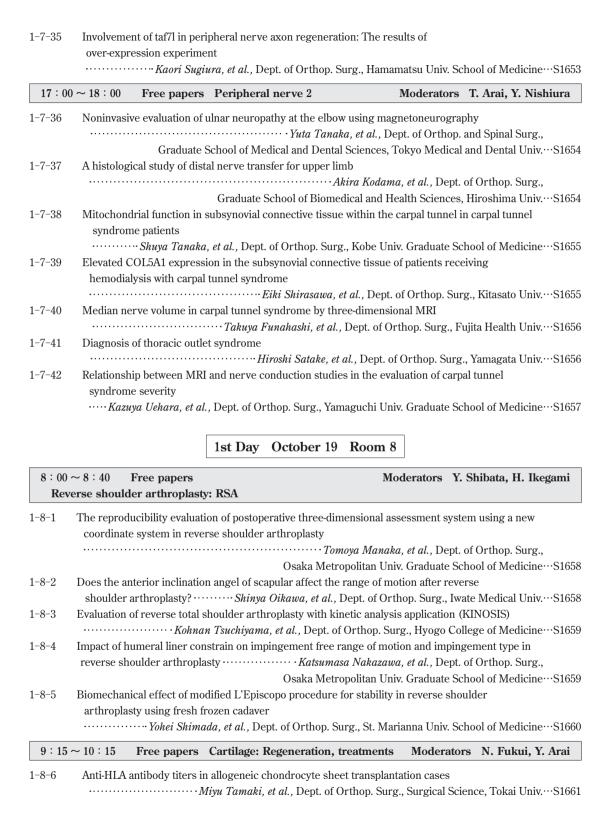
1-6-20		of biodegradability metal implants <i>in vivo</i>	
	•••••	Ryo Maekawa, et al., Dept. of Orthop., Graduate Sci	
1-6-21	Strontium	Kyoto Freie loaded 3D-printed intramedullary nail titanium implant for critic	ctural Univ. of Medicine…S1618
1 0 21		al defects in rabbits	ar-sized terrioral
		hintaro Honda, et al., Dept. of Orthop. Surg., Graduate School of	of Medicine, Kyoto Univ.···S1619
12:10	~ 13:20	Luncheon seminar 6	Moderator T. Saito
1-6-LS6	Constipat	ion among orthopaedic patients · · · · · Takat	oshi Okuda, Koto Hosp.···S1620
14:30	~ 15:30	Free papers Biomechanics: Lower extremity Modera	tors Y. Suda, Y. Takazawa
1-6-22	_	ind reliability of ultrasound-assisted Lachman test in diagnosing injuries ····································	
1-6-23	The anterio	or cruciate ligament injury increased axial internal rotational lax <i>Cenjiro Okimura, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Grad	xity of the knee joint
1-6-24		ation between the ramp lesion of medial meniscus and preopera cruciate ligament injury	itive knee laxity in
1-6-25	Increased	····Kanto Nagai, et al., Dept. of Orthop. Surg., Kobe Univ. Grad tibiofemoral contact force can reflect knee flexion restriction du arthroplasty	
1-6-26	Biomechar	nichi Kuriyama, et al., Dept. of Orthop. Surg., Graduate School onical analysis of tibiotalar joint kinematics in deltoid ligament injuffreedom robotic system	
1-6-27	Biomechar		es-of-freedom
1-6-28	Evaluation	ystem ······ Katsunori Takahashi, et al., Dept. of Orthop. Surg. of morphological changes influenced by medializing calcaneal csimulation using finite element analysis ····· Yumiko Kobayashi	osteotomy on flatfoot:
	8	Graduate School of Medical Science, Kyoto Prefe	
15:45	~ 16:45	Free papers Biomechanics: Upper extremity Moderat	ors Y. Shibata, K. Inagaki
1-6-29		of the subchondral bone density patterns and kinematics in ost rpometacarpal joint	eoarthritis of the
1-6-30	Biomechar	<i>uki Yamamoto, et al.,</i> Dept. of Orthop. Surg., Graduate School onical study of insertion sites in the Camitz procedure: A cadaver	study
1-6-31	The optima		on and abduction
1-6-32	The effect	····· Yosuke Ito, et al., Dept. of Orthop. Surg., Graduate School of wrist joint angle on the radiocarpal joint surface: A finite elementakashi Nomoto, et al., Dept. of Orthop. Surg., Graduate School of Orthop.	nent analysis
1-6-33	Closing rad	dial wedge osteotomy reduces stress on the lunate bone: Finite steotomy angle	element analysis for the
1-6-34	Biomechar arthropla	··· Atsushi Hojo, et al., Dept. of Orthop. Surg., Graduate School of nical study on reproducibility of scapular fatigue fracture after resty using finite element model ·· Kenta Inagaki, et al., Dept. of Orthop. Surg., Graduate School of	everse shoulder
1-6-35	Cadaveric intramus	research on the shoulder joint position to avoid radial nerve injucular injection into the deltoid muscle	ıry caused by
			ing., mana miculcan Ulliv31028

17:0	$0 \sim 18:00$ Free papers	Infection	Moderators T. Ishii, H. Horiuchi
1-6-36	by bacterial culture tests	3	issue infections that were difficult to identify
1-6-37			Surg., Faculty of Medicine, Univ. of Toyama···S16 ction for real-time PCR diagnosis of
	Gram-positive bacteria ··	··· Yuta Hieda, et al., Dept. o	of Orthop. Surg., Yokohama City Univ. HospS16
-6-38			aureus isolated from periprosthetic
	joint infections ······	······K	eigo Yonemoto, et al., Dept. of Orthop. Surg.,
			The Jikei Univ. School of Medicine…S16
-6-39		by Raman spectroscopy using	
	•••••	Shun Fujii, et al., Dept. of O	rthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine…S16
1-6-40	Antimicrobial effect and sa	ustained elution of silver-load	ded bone cement
	·····Naoya	a Esaki, et al., Dept. of Ortho	pp. Surg., The Jikei Univ. School of Medicine…S16
1-6-41		•	tures based on tissue culture results
	·····Yuta Hayashi,	·	etal Traumatology and Reconstructive Surg.,
			edical and Health Sciences, Hiroshima Univ.···S16
1-6-42			peroxidase for periprosthetic joint infection
		Sninsuke ikeuu,	et al., Dept. of Orthop. Surg., Kitasato Univ.···S16
			Room 7
	~ 9:00 Free papers	4.1.	
	~ 9:00 Free papers eoarthritis: Epidemiology,	pathology	
Ost	eoarthritis: Epidemiology,		
Ost	eoarthritis: Epidemiology, The epidemiology about the radiographic knee alignm	e relationship between self-rent and knee complains in Iv	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et	e relationship between self-rent and knee complains in Iv t al., Dept. of Orthop. Surg.,	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of Medicine…S16
Ost	reoarthritis: Epidemiology, The epidemiology about the radiographic knee alignm ···· Yuzuru Nakamura, et Agricultural work is a risk f	e relationship between self-rent and knee complains in Iv t al., Dept. of Orthop. Surg., for the development of knee	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort
	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f	e relationship between self-rent and knee complains in Iverall, Dept. of Orthop. Surg., for the development of knee in longitudinal study	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of Medicine…S16 osteoarthritis in non-obese women;
Ost 1-7-1 1-7-2	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et	e relationship between self-rent and knee complains in Iv t al., Dept. of Orthop. Surg., for the development of knee in longitudinal study t al., Dept. of Orthop. Surg.,	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or	e relationship between self-rent and knee complains in Iv t al., Dept. of Orthop. Surg., for the development of knee in longitudinal study t al., Dept. of Orthop. Surg., steoarthritis and femoroacet	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of Medicine…S16 osteoarthritis in non-obese women;
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or population: A 5-year longit	e relationship between self-rent and knee complains in Ive tal., Dept. of Orthop. Surg., for the development of knee in longitudinal study tal., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 abular impingement in the general
Ost -7-1 -7-2 -7-3	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip of population: A 5-year longit Hikaru Kamada, et	e relationship between self-rent and knee complains in Ive tal., Dept. of Orthop. Surg., for the development of knee in longitudinal study tal., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study tal., Dept. of Orthop. Surg.,	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 abular impingement in the general Hirosaki Univ. Graduate School of MedicineS16
Ost -7-1 -7-2 -7-3	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or population: A 5-year longit Hikaru Kamada, et Impact of preoperative temp	e relationship between self-rent and knee complains in Iverall, Dept. of Orthop. Surg., for the development of knee in longitudinal study to al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study to al., Dept. of Orthop. Surg., poral summation of pain on a	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 cacute-postoperative walking pain in TKA and
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or population: A 5-year longir Hikaru Kamada, et Impact of preoperative tem THA patients	e relationship between self-rent and knee complains in Ival., Dept. of Orthop. Surg., for the development of knee in longitudinal study at al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study at al., Dept. of Orthop. Surg., poral summation of pain on a complete study. Shota Oda, et al., Rehabit	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 acute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS16
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or population: A 5-year longir Hikaru Kamada, et Impact of preoperative tem THA patients	e relationship between self-rent and knee complains in Ival., Dept. of Orthop. Surg., for the development of knee in longitudinal study tal., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study tal., Dept. of Orthop. Surg., poral summation of pain on a Shota Oda, et al., Rehabi of metacarpophalangeal join	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 cacute-postoperative walking pain in TKA and
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or population: A 5-year longir Hikaru Kamada, et Impact of preoperative temp THA patients Stress distribution analysis carpometacarpal osteoartl	e relationship between self-rent and knee complains in Iver al., Dept. of Orthop. Surg., for the development of knee in longitudinal study at al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study at al., Dept. of Orthop. Surg., poral summation of pain on a summation of pain on a fine of metacarpophalangeal join thritis	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 cacute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS16 at before and after arthrodesis for thumb
Ost -7-1 -7-2 -7-3 -7-4 -7-5	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip of population: A 5-year longit Hikaru Kamada, et Impact of preoperative temp THA patients Stress distribution analysis carpometacarpal osteoarth	e relationship between self-rent and knee complains in Iver al., Dept. of Orthop. Surg., for the development of knee in longitudinal study at al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study at al., Dept. of Orthop. Surg., poral summation of pain on a summation of pain on a fine of metacarpophalangeal join thritis	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 acute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS16 at before and after arthrodesis for thumb Faculty of Dental Medicine, Hokkaido UnivS16
Ost -7-1 -7-2 -7-3 -7-4 -7-5	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip or population: A 5-year longit Hikaru Kamada, et Impact of preoperative temp THA patients Stress distribution analysis carpometacarpal osteoarth	e relationship between self-rent and knee complains in Iversity al., Dept. of Orthop. Surg., for the development of knee in longitudinal study at al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study at al., Dept. of Orthop. Surg., poral summation of pain on a complete studinal study at al., Rehabit of metacarpophalangeal join thritis and femoroacet al., Rehabit of metacarpophalangeal join thritis and femoroacet al., red thumb pronation function at al., red thumb pronation function and a surgery are the statement of the surgery and the surgery and the surgery and the surgery are the surgery and the surgery and the surgery and the surgery are the surgery are the surgery and the surgery are the surgery are the surgery are the surgery and the surgery are the surgery and the surgery are th	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 cacute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS16 at before and after arthrodesis for thumb Faculty of Dental Medicine, Hokkaido UnivS16 at in thumb carpometacarpal oto, et al., Dept. of Orthop. and Spinal Surg.,
Ost 1-7-1 1-7-2 1-7-3 1-7-4	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip oppulation: A 5-year longin Hikaru Kamada, et Impact of preoperative tem THA patients Stress distribution analysis carpometacarpal osteoarth	e relationship between self-rent and knee complains in Iversia. Dept. of Orthop. Surg., for the development of knee in longitudinal study to al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study to al., Dept. of Orthop. Surg., poral summation of pain on a summation of pain on a summation of metacarpophalangeal join thritis	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 abular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 acute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS16 at before and after arthrodesis for thumb Faculty of Dental Medicine, Hokkaido UnivS16 a in thumb carpometacarpal oto, et al., Dept. of Orthop. and Spinal Surg., al Sciences, Tokyo Medical and Dental UnivS16
Ost	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip oppulation: A 5-year longin Hikaru Kamada, et Impact of preoperative tem THA patients Stress distribution analysis carpometacarpal osteoarth	e relationship between self-rent and knee complains in Iversia. Dept. of Orthop. Surg., for the development of knee in longitudinal study to al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study to al., Dept. of Orthop. Surg., poral summation of pain on a complete studinal study to al., Rehabit of metacarpophalangeal join thritis to the studing of metacarpophalangeal join thritis thritis through the studing of metacarpophalangeal join thritis through the studing of metacarpophalangeal join thritis thritis through the studing of metacarpophalangeal join thritis thritis through the studing of metacarpophalangeal join thritis thritis through the studing of the studin	Moderators A. Hara, E. Kondo eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS16 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS16 abular impingement in the general Hirosaki Univ. Graduate School of MedicineS16 acute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS16 at before and after arthrodesis for thumb Faculty of Dental Medicine, Hokkaido UnivS16 a in thumb carpometacarpal oto, et al., Dept. of Orthop. and Spinal Surg., al Sciences, Tokyo Medical and Dental UnivS16 ct surface for distal radial ulnar
Ost -7-1 -7-2 -7-3 -7-4 -7-5	The epidemiology about the radiographic knee alignm Yuzuru Nakamura, et Agricultural work is a risk f 10-year general population Eitaro Sato, et Relationship between hip oppulation: A 5-year longin Hikaru Kamada, et Impact of preoperative tem THA patients Stress distribution analysis carpometacarpal osteoarth	e relationship between self-rent and knee complains in Iversia. Dept. of Orthop. Surg., for the development of knee in longitudinal study to al., Dept. of Orthop. Surg., steoarthritis and femoroacet tudinal study to al., Dept. of Orthop. Surg., poral summation of pain on a complete studinal study to al., Rehabit of metacarpophalangeal join thritis to the studing of metacarpophalangeal join thritis thritis through the studing of metacarpophalangeal join thritis through the studing of metacarpophalangeal join thritis thritis through the studing of metacarpophalangeal join thritis thritis through the studing of metacarpophalangeal join thritis thritis through the studing of the studin	Moderators A. Hara, E. Kond eported lower extremity alignment, waki Cohort Hirosaki Univ. Graduate School of MedicineS1 osteoarthritis in non-obese women; Hirosaki Univ. Graduate School of MedicineS1 cabular impingement in the general Hirosaki Univ. Graduate School of MedicineS1 cacute-postoperative walking pain in TKA and dilitation Center, Kochi Medical School HospS1 at before and after arthrodesis for thumb Faculty of Dental Medicine, Hokkaido UnivS1 a in thumb carpometacarpal oto, et al., Dept. of Orthop. and Spinal Surg., al Sciences, Tokyo Medical and Dental UnivS1 ct surface for distal radial ulnar omoaki Suzuki, et al., Dept. of Orthop. Surg.,

Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1636

9:15	~ 10:15	Free papers	Osteoarthritis: Treatmen	ts Moderators	Y. Nishida, I. Sekiya
1-7-8	immuno	deficient rats	oose-derived stromal vascular		
1-7-9			<i>i, et al.</i> , Dept. of Orthop. Sur f curcumin monoglucuronide		
			al bone alteration in an osteo		
	********	• • • • • • • • • • • • • • • • • • • •	Akihiro Nakaho		Function Analysis, licine, Kyoto UnivS1637
1-7-10	Behaviora	al studies of PRF	application in a rat model of		neme, Ryoto Oniv. 31037
	•••••		Hidenobu Tamai, et al., Dept	. of Orthop. Surg., Wakaya	ama Medical Univ.···S1638
1-7-11			f novel thermal stimulation to		
	***********		Ryota Cha, et al., Dept. of O		I Medical Science, Univ. of Medicine…S1638
1-7-12	Changes	in circadian cloc	k induced by thermal stimula		
	•••••	······ To	akashi Seya, et al., Dept. of O		
1 7 19	Detential	for musicio o sid :	modinino vio aumonogaion of I		Univ. of Medicine···S1639
1-7-13		tration of miRNA	medicine via suppression of V Amimic	EGF production by intra-	arucular
	• • • • • • • • • • • • • • • • • • • •	·····Tats	cumi Tanaka, et al., Dept. of	Orthop. Surg., Surgical Sc	ience, Tokai Univ.···S1639
1-7-14			stin) can repair and regenera		
	*******	• • • • • • • • • • • • • • • • • • • •	Graduate School of Biome		. of Orthop. Surg., s, Hiroshima UnivS1640
10 . 00	11.00				
10:30) ~ 11 : 30	Free papers	Knee osteoarthritis 1	Moderators	T. Majima, M. Deie
1-7-15	and ant	erior horn thick	n is associated with medial n ness positively in knee osteo	arthritis	
1_7_16			Takuya Yaman		
1-7-16		nsity across kne	s extrusion and leg alignmen e joint	t on the distribution patter	in of subchondraf
	•••••	·····- <i>P</i>	<i>Koji Iwasaki, et al.</i> , Dept. of F		
1 7 17	Noval ma	thad fammaniaa	Faculty of Medicine and G		
1-7-17		across knee join	al extrusion associated with t t	ne distribution pattern of	subchondrai bone
			Koji Iwasaki, et al., Dept. of F	unctional Reconstruction	for the Knee Joint,
			Faculty of Medicine and G		
1-7-18			edial meniscal extrusion and I UTE-T2* mapping	cartilage degeneration in	early knee
			oura, et al., Div. of Radiol. and	d Nucle. Med., Sapporo M	edical Univ. HospS1642
1-7-19	Morpholo	ogical study arou	nd the popliteal hiatus of late	eral meniscus by 3D imagi	ng using 7T-MRI
4 5 00			········Hiroki Kaneko, et al.,		
1-7-20			on meniscal healing of early		
	posterio	1 Toot Tepan		of Functional Recovery an	
			lty of Medicine, Dentistry, ar	nd Pharmaceutical Science	es, Okayama Univ.···S1643
1-7-21			the plain radiography does n		the medial
	-	=	rus knees in patients underg et al., Dept. of Orthop. Surg		licine, Kyoto UnivS1644
					•

12:10	~ 13:20	Luncheon se	minar 7	Mod	erator K. Takeshita	
1-7-LS7	the bala	ance between ber	rmacotherapy for low back paefits and harms ····· Takuya Nikaido, Dept.			
14:30	~ 15:30		Knee osteoarthritis 2		H. Ikeda, M. Ozaki	
1-7-22 1-7-23	wedge d	istal femoral varu sorptiometry ·····	ess distribution pattern of the sosteotomy: An evaluation	using computed tomograp ari Hamasaki, et al., Dept. aduate School of Medicine	hy of Orthop. Surg., e, Hokkaido Univ.···S1646	
1 7 20		Ko	iji Iwasaki, et al., Dept. of Fu Faculty of Medicine and Gr	unctional Reconstruction fo	or the Knee Joint,	
1-7-24	diaphyse	eal tibial axes afte	ior slope angle by between t r total knee arthroplasty ······Yoshinori Ishii, e			
1-7-25	Kinematic	es of varus thrust	in patients with medial knee iji Iwasaki, et al., Dept. of Fu Faculty of Medicine and Gr	osteoarthritis inctional Reconstruction fo	or the Knee Joint,	
1-7-26	Concentration of platelet-derived growth factor (PDGF) in platelet-rich plasma (PRP) and its effect on symptomatic relief ················Nanako Yamamoto, et al., Dept. of Orthop., Juntendo Univ.···S1648					
1-7-27	platelet-r	rich plasma (PRP)	measures (PROMs) and char therapy for patients with kn Ryosuke Nakaja	nee osteoarthritis		
1-7-28	Compariso patients	on of predisposing with knee osteon	g factors affecting anterior k	nee pain between on walki	ing and at rest in	
15:45	~ 16:45	Free papers	Peripheral nerve 1	Moderators N. Te	erada, M. Yamamoto	
1-7-29			con regeneration of LFA1 ex	moaki Suzuki, et al., Dept.	of Orthop. Surg.,	
1-7-30		l contribute to ma	acrophage polarization in miEiki Shirasawa,	ce chronic constriction inju	ury model	
1-7-31	Gene expr	ression of neurotr	rophic factors in transient RI kamaru Suzuki, et al., Dept.	EST-regulated cells using t	he Schwann cell and Motor Organ,	
1-7-32	transplar	ntation in massive	uced pluripotent stem cell-d e nerve defect ······ <i>Takayuki Nishijin</i>			
1-7-33	PDGFRa e	expressing fibrob al nerve injury by	lasts in epineurium promote venhancing angiogenesis Faculty of Medicine and Gr	the repair of the lesion sit Masato Hara, et al., Dept.	te after of Orthop. Surg.,	
1-7-34		l nerve regenerat ithelium ·····	ion by targeting neutrophil o ····································	extracellular traps that acc coki Takeuchi, et al., Dept.	umulate in the of Orthop. Surg.,	



12:10	~ 13:20	Luncheon seminar 8	Moderator M. Watanabe
1-8-20		_	rpometacarpal joint by axial traction MRI: Comparison Ikumi, et al., Dept. of Orthop. Surg., Univ. of Tsukuba···S1668
1_9_90	·····K	yota Ishibashi, et al., Dept. of Ortho	op. Surg., Hirosaki Univ. Graduate School of Medicine…S1668
1-8-19			ration accelerate meniscal healing by inducing an
	chondro		··········· Keita Kitahara, et al., Dept. of Orthop. Surg., ine and Graduate School of Medicine, Hokkaido Univ.···S1667
1-8-18			Iwase, et al., Dept. of Orthop., Tokushima Univ. Hosp.···S1667 neutrophils phenotype suppress catabolic process in
1-8-17			t. of Orthop., Univ. of Maryland, Baltimore, MD, USA…S1666 rapy to accelerate the healing for osteochondral
1-8-16	Nutrient-r	egulated dynamics of chondroprog	renitors in the postnatal murine growth plate
1-8-15		ficiency exacerbates osteoarthritis	ol of Biomedical and Health Sciences, Hiroshima UnivS1665 by downregulating PPAR gamma of thop. Surg., Kobe Univ. Graduate School of MedicineS1666
1-8-14			ion therapy by mesenchymal stem cell
1 0 13	cells afte	r injection into rat osteoarthritis k	
1-8-13			er PRG4 expression than adipose mesenchymal stem
) ~ 11 : 35 tilage: Path	Free papers ology, treatments	Moderators M. Ishikawa, S. Miyaki
		n rabbits ····· Takahiro I	garashi, et al., Dept. of Orthop. Surg., Yamagata Univ.···S1664
1-8-12	Effects of	······ <i>Makoto Ogawa, et al.</i> peripheral blood-derived and bone	, Dept. of Orthop. Surg., Surgical Science, Tokai Univ.···S1663 marrow-derived platelet-rich fibrin for osteochondral
1-8-11		articular cartilage repair by transp nd mini-sheets	lantation of polydactyly-derived chondrocyte cell
	sheet tra	nsplantation · · · · · · · · · · · · · · · · · · ·	······Eriko Toyoda, et al., Dept. of Orthop. Surg., Surgical Science, Tokai Univ.···S1663
1-8-10		Okayama Univ. Graduate School	 Yuki Fujisawa, et al., Dept. of Regenerative Science, I of Medicine, Dentistry and Pharmaceutical Sciences S1662 generation by allogeneic chondrocyte
1-8-9	Regenerat	Collegive approach on injured articular o	ge of Pharmacy, Univ. of Utah, Salt Lake City, UT, USA…S1662 artilage with human iPSC-derived plate-shaped
1-8-8			g human surgical discard-derived chondrocyte sheets akoto Kondo, et al., Dept. of Molecular Pharmaceutics,
		Faculty of Medic	···· Tomohiro Onodera, et al., Dept. of Orthop. Surg., ine and Graduate School of Medicine, Hokkaido Univ.···S1661
			Townships Outstand of Dont of Outlook C

Three-year clinical outcomes after ultra-purified alginate gel (UPAL) implantation surgery

1-8-7

1-8-LS8

Mesenchymal stem cell transplantation for spinal cord injury: Current status and prospects

	$0 \sim 15:30$ Free papers tion analysis: Lower extremity	Moderators	H. Tohyama, A. Taniguchi
1-8-21	Full-body gait analysis using depth camera and machin	a learning: Attemn	ting to identify gait in
1 0 21	anterior cruciate ligament reconstruction patients	ic icai iiiig. Attemp	ung to identify gait in
	Ke	ntaro Homan, et al	., Dept. of Orthop. Surg.,
			Medicine, Hokkaido Univ.···S1670
1-8-22	Investigation of quantitative evaluation of pivot shift tes	st using inertial sen	sor
	····-Jiro Kato, et al.	, Dept. of Orthop.	Surg., Nagoya City Univ.,
		Graduate Sc	hool of Medical Sciences···S1670
1-8-23	Investigation of the change of knee joint kinematics by	the posterior tibial	component inclination
	in unicompartmental arthroplasty		
	················Natsuki Sugimura, et al., Dept. of Orthog		
1-8-24	Clinical motion analysis in double knee action acquisiti	on using artificial i	ntelligence for
	postoperative patients of severe spinal cord disorder	1 D 4 CO 4	C II : (7) 1 1 C10771
1 0 05	Well, and weight action to with domain action ground through		
1-8-25	Walk analysis of patients with degenerative gonarthros Takashi Yamaga, et al., Dept. of Hand Si		
	Program in Integrated Medicine,		
1-8-26	<i>In vivo</i> kinematic analysis of transfibular total ankle art		
1 0 20	2D/3D registration	an opiasty using si	plane naoroscopy and
		., Graduate School	of Medicine, Chiba Univ.···S1672
1-8-27	Gait analysis before and 1 year after total knee arthrop		
	implant design ······ Kosuke Okuno, et a		
15 : 45	5 ~ 16:45 Free papers	Mode	erators M. Senda, T. Ogata
	tion analysis: Rehabilitation, others	Wiode	in benda, i. ogua
1-8-28	Effectiveness of intervention using the robot assistive of	device focusing on	gait analysis and muscle
1 0 20	activity: Case report ····································		
			of Health Sciences Hosp.···S1674
1-8-29	The feasibility of intensive voluntary-assisted gait train		
	patient with arthrogryposis multiplex congenita		
	··· Mayumi Kuroda, et al., Dept. of Physical Therapy,	Ibaraki Prefectural	Univ. of Health Sciences···S1674
1-8-30	Influence of exercise using functional electrical stimula	ation combined gait	rehabilitation robot on
	blood pressure variability in patients with acute spinal	cord injury: Prelin	ninary study
	····· Takahiro Sato, et al., Dept. of Orthop. Sur	g., Akita Univ. Grad	luate School of Medicine…S1675
1-8-31	Preoperative physical function and Imaging findings In		ative outcome in
	cervical ossification of posterior longitudinal ligament		
	·····Takuma Fudo,		
1-8-32	Stand up test is the most influential of the locomotive s		
1 0 00	The Bunkyo Health Study ······· Suguru Wak	· · · · · · ·	= :
1-8-33	The risk of subsequent fracture in patients with distal r		• = •
	wearable inertial sensors in insoles ···· Akiko Yamamo		
1-8-34	Graduate School of Medical and Denta Effect of index finger abduction exercise on kinematics		
1 0 34	Dai Ooishi, et al., Rehabil	=	
	Dur Ousie, et al., Reliabil		

Mot	ion and in	naging analysis	s: Upper extremity	
1-8-35	osteoto	omy for thumb ca	sis of thumb kinematics using CT a arpometacarpal osteoarthritis	fter arthrodesis, arthroplasty and Tanaka, et al., Dept. of Orthop. Surg.,
				and Health Sciences, Hiroshima Univ.···S1678
1-8-36	Changes	s in thumb ioint i		unnel release in patients with severe
		tunnel syndrome		
				Control of Upper Extremity Function,
				al and Health Science, Hiroshima Univ.···S1678
1-8-37		erent roles of the e electromyogra		eles during the dynamic elbow flexion:
	•••••	·····Sho	ta Date, et al., Dept. of Analysis and	Control of Upper Extremity Function,
			Graduate School of Biomedica	ıl and Health Science, Hiroshima UnivS1679
1-8-38	Pilot stud	dy for augmente	d reality-enhanced elbow arthrosco	py
				o./Rheumatology, Musculoskeletal and uate School of Medicine, Nagoya UnivS1679
1-8-39			shoulder radiography diagnose rot <i>al.</i> , Dept. of Orthop. Surg., Osaka C	ator cuff tear? City Univ. Graduate School of Medicine…S1680
1-8-40		ce between pitcl g motion	ners and fielders of stiffness change	es around shoulder muscles after
	• • • • • • • • • • • • • • • • • • • •	···········Hironor	ri Tsurukami, et al., Dept. of Orthop	o. Surg., Juntendo Univ. Urayasu Hosp.···S1680
1-8-41	The relia	ability of acromic	oclavicular joint kinematics using sh	nape matching method
	•••••	• • • • • • • • • • • • • • • • • • • •	····· Toshiki Zeniya, et al., Dept. of	Orthop. Surg., Sapporo Medical Univ.···S1681
			1st Day October 19 Ro	pom 9
8:00	~ 9:00	Free papers	Pain: Pathology, treatments	Moderators S. Konno, T. Ushida
1-9-1			eoporosis · · · · · · Miyako Narita, e	and pain behavior in a mouse model of et al., Dept. of Bioenvironmental Med., duate School of Medicine, Chiba UnivS1682
1-9-2	Altered as	scending pain fa	cilitatory mechanism in chronic pair	
	•••••		· Masashi Izumi, et al., Rehabilitatio	n Center, Kochi Medical School Hosp.···S1682
1-9-3	The distri	bution of micros	glia in central nervous system and p	athomechanism of neuropathic pain in
			velopathy model (ttw/ttw)	
	•••••		······Arisa Kubota, et d	ıl., Dept. of Orthop. Surg., Fukui UnivS1683
1-9-4			ain via spinal dorsal horn neuron	
				rthop. Surg., Wakayama Medical UnivS1683
1-9-5	_		rterial microembolization: A possibl	
				rthop. Surg., Wakayama Medical Univ.···S1684
1-9-6				electrodes in micromini pigs while
			bjective evaluation method for pain	
	•••••			Upper and Lower Limb Traumatology,
1.0.7	Dec : c			oya Univ. Graduate School of Medicine…S1684
1-9-7	Effects of	a new conserva	tive treatment for degenerative med	lial meniscus tear: A histological study

Moderators K. Sugamoto, K. Inagaki

 $17:00 \sim 18:00$

Free papers

in rabbits ····· Tomoyuki Kanayama, et al., Dept. of Orthop. Surg.,

Graduate School of Medical Sciences, Kanazawa Univ.···S1685

9:15 ~	~ 10:15	Free papers	Surgery: Spine, others 1	Moderator	s S. Yabuki, Y. Kudo		
1-9-8	spinal fu	ision	tients with adolescent idiopath				
1-9-9	Tsutomu Akazawa, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of MedicineS1686 Is the application of compression maneuvers during posterior lumbar fusion truly resulting in the compression of intervertebral cages?: A cadaveric study						
1-9-10	Combined fusion m	l effect of DBM, nodel	PRP, and bone marrow fluid o	on bone union in a rat po	osterolateral		
1-9-11	Study of the	he effect of skip r pyogenic spon	et al., Dept. of Orthop. Surg., ping pedicle screw insertion or dylitis · · · · · · Yos i Medical Univ. Joint Ibaraki W	n affected vertebrae in j uke Shibao, et al., Univ.	oosterior spinal of Tsukuba Hosp./		
1-9-12	•••••		er limb fixation device in cerv Kanji Mori, et al., Dept. of Ort	hop. Surg., Shiga Univ.	of Medical Science…S1688		
1-9-13			ex index as a screening tool fo				
1-9-14	Risk facto	rs for intravascu	lar bone cement leakage in ce	ment-augmented fenest	rated		
10:30	~ 11:35	Free papers	Regenerative medicine	Moderators T	Yoshioka, H. Kaneko		
1-9-15	polydac	tyly chondrocyt	epair by miRNAs in small extra e-derived structures <i>liki Maehara, et al.</i> , Dept. of O				
1-9-16	Establish from adi	ment of a novel r pose-derived me	nethod for the isolation of high esenchymal stromal cells with et al., Dept. of Orthop. Surg.,	hly purified extracellula therapeutic potential of	r vesicles derived osteoarthritis		
1-9-17	Intravitrea regenera	al administration tion after optic n	of photoactivated adenylate c	yclase induces time-dep	endent axonal		
1-9-18	Basic fibrostem cel	oblast growth fa lls through the C	ctor promotes regeneration of CXCL6-CXCR2 pathway et al., Dept. of Orthop. Surg.,	the meniscus via synov	ial mesenchymal		
1-9-19	In vitro ev	valuation of bone	e formation by stem cells emberonessaya Uen	edded in antibacterial hy	drogel		
1-9-20	Non-invas	sive total countin	g of cultured cells using a hon Mitsuru Mizuno, et al., Center	ne-use scanner for Stem Cell and Rege			
1-9-21			ells and reprogramming factor · Yusuke Aimono, et al., Center	for Stem Cell and Rege			
1-9-22	and leuk	cocyte rich plate	elease kinetics and amount of a let rich fibrin <i>i, et al.</i> , Dept. of Orthop. Surg	growth factors released	from fibrin clot		
		ının 14akanısı	i, ei ai., Dept. of Of Hop. Surg	., 13000 Omv. Graduale	school of Medicine31093		

Spin	ai cord: Regenerative medicine
1-9-23	Involvement of extracellular matrix in spinal white matter formation process for regeneration following spinal cord injury
1-9-24	Identification of the mode of action of bismuth on spinal cord injury and optimization of its administration protocol for clinical application ······ Akihito Sotome, et al., Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1694
1-9-25	Multiple injection of mesenchymal stem cells for chronic spinal cord injury in rats
1-9-26	Therapeutic effects of combined hepatocyte growth factor and hiPSC-NS/PCs transplantation in subacute spinal cord injury ····································
1-9-27	Comparison of the anti-inflammatory effects of mouse adipose- and bone-marrow-derived multilineage-differentiating stress-enduring cells in acute-phase spinal cord injury Toshihide Nagaoki, et al., Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine \$1696
1-9-28	Ex vivo gene therapy using human-induced pluripotent stem cell-derived neural stem/progenitor cells to deliver synaptic organizer CPTX for spinal cord injury
1-9-29	Epidural electrical stimulation enforces neuron-glia interaction and promotes synapse regeneration after cervical spinal cord injury in mice
1-9-30	Evaluation of stress tolerance in a mouse model of spinal cord injury: Investigation of usefulness of ultrasonic vocalization
15:45	$\sim 16:45$ Free papers Surgery: Spine, others 2 Moderators S. Soshi, N. Hosogane
1-9-31	Evaluation of surgical indications for full-endoscopic discectomy at lumbosacral disc level using 3D MRI-CT fusion imaging created with artificial intelligence
	Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1698
1-9-32	Efficacy of patient-specific template guide for long and safe insertion of cortical bone trajectory screw into vertebral body ····································
1-9-33	Biomechanical comparison of transforaminal, posterior, and lateral lumbar interbody fusion with posterior instrumentation: A finite element analysis
1-9-34	The incidence and alert timing of spontaneous electromyogram in cervical ossification of the posterior longitudinal ligament surgery
1 0 05	Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ. · · · S1699
1-9-35	The optimal angle for setting the patient on the surgical table for lateral lumbar interbody fusion
	in adult spinal deformity: A three-dimensional computed tomography analysis
1-9-36	
1 2 30	125 cases ······· Tsutomu Akazawa, et al., Dept. of Orthop. Surg.,
	St. Marianna Univ. School of Medicine…S1700

 $14:30 \sim 15:35$ Free papers

Moderators H. Nagashima, T. Ogata

1-9-37			e for pelvic screw insertion Junichiro Morita, et al., Dept.	of Orthop. Surg., M	ito Medical Center…S1701
17:00	~ 18:00 Fr	ee papers	Spinal cord: Pathology	Moderators	O. Shirado, N. Fujita
1-9-38		_	nergy metabolism in mice agawa, et al., Dept. of Orthop. Su	rg National Defen	se Medical College…S1702
1-9-39	Cyclooxygenase	e-2 expressi	ion in the spinal cord injury induc Masakazu Toi, et al., Dept. of Ortl	ced neuropathic pair	n
1-9-40	Pathophysiolog therapies via t	ical role of he type III o	type III collagen in spinal cord inj collagen-Gpr56 pathway	ury and developme	nt of novel
1-9-41				ool of Medical Scie	, Clinical Medicine, nces, Kyushu UnivS1703
1 / 41			······································	et al., Dept. of Orth Surg., Program in In	
1-9-42	canal stenosis		gamentum flavum and epidural fa		
1-9-43					
1-9-44	Evaluation of lumbar neural activity by the femoral nerve and lateral femoral cutaneous nerve stimulation method using magnetospinography				
		1st	Day October 19 Hands	-on Room	
15:40	~ 17:40 Ha	nds-on se	minar		
1-HS			(Efficacy of MEP and effective u • Masaki Tatsumura, Tsukuba U Training Center Dept.	niv. Hosp. Mito Clir	
			1st Day October 19 Po	oster 1	
10:40	~ 11 : 15 Po	ster Pain	: Pathology, treatments	N	Ioderator T. Akiyama
1-Po-1 1-Po-2	knee osteoarth Preoperative ris	nritis ······ sk factors a	d synovial fibroblast subsets and	Dept. of Orthop. S ported outcomes aft ichi Ueki, et al., Dep	urg., Kitasato UnivS1706 ter total ot. of Orthop. Surg.,
1-Po-3			Graduate School of Biomedical shoulder pain in patients with rown. Mitsuyoshi Matsumoto, et al.,	otator cuff diseases	

	nociceptive, neuropathic, nociplastic, or mixed pain screening, and the prevalence of lumbar spinal stenosis: A cross-sectional study Shuichi Miyamoto, et al., Dept. of Orthop. Surg., Tokyo Medical Univ. Ibaraki Medical Center S1707
1-Po-5	Gene expression profile in the dorsal horn of spinal cord in spared nerve injury after intravenous infusion of mesenchymal stem cells
1-Po-6	
1-Po-7	Development of TPU soft orthosis using 3D printer: Thumb CM arthropathy orthosis, de Quervain's disease orthosis, and hand joint orthosis
11:20	~ 11:50 Poster Intervertebral disc Moderator Y. Aoki
1-Po-8	Increased Netrin-1 expression in intervertebral disc of aged rat
1-Po-9	
1-Po-10	Graduate School of Biomedical and Health Sciences, Hiroshima UnivS1710 Lumbar endplate degeneration through miR-26a in mouse
1-Po-11	Graduate School of Biomedical and Health Sciences, Hiroshima UnivS1711 A novel animal model of lumbar vertebral endplate lesion by intervertebral disc injection of monosodium iodoacetate in rat
1-Po-12	PRP administration for intervertebral disc in low back pain patients with Modic type 1 change
1-Po-13	Regenerative effect of platelet-rich plasma releasate in the rabbit degenerated disc induced by Condoliase · · · · · · · · · · · · · · · · · · ·
14:30	~ 15:05 Best poster Moderator Y. Ishibashi
1-BP-1	Persistent antibacterial activity of silver-containing hydroxyapatite coating
1-BP-2	Mechanisms of tendon tissue repair using alginate-cell cross-linked gel
1 DD 0	
1-BP-3	Follistatin-like 1 (FSTL1), a matricellular protein, is upregulated with human and rat meniscus tissue degeneration ·······Shunya Otani, et al., Medicine for Sports and Performing Arts,
	Dept. of Health and Sport Science, Graduate School of Medicine, Osaka Univ.···S1714
1-BP-4	Assessing the efficacy of eelomerase-specific oncolytic adenovirus for bone and soft-tissue
	sarcomas using fluorescence-guided methods ········Koji Uotani, et al., Dept. of Orthop. Surg.,
	Science of Functional Recovery and Reconstruction, Faculty of Medicine,
	Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S1714
1-BP-5	Relationship between locomotive syndrome and advanced glycation end products in community-dwelling patients: The Yakumo Study
	Yuto Ozawa, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
	Program in Integrated Medicine. Graduate School of Medicine. Nagova Univ. · · · S1715

Mechanism of chronic pain of symptomatic hip osteoarthritis by association of its distribution,

1-Po-4

1-BP-6	hip osteoarth	nritis: Pi	ropensity matched	sion and proportion of score analysis nihisa Ohashi, et al., De	_		
1-BP-7	The mechanis derived from independent	sm unden human ly of the	erlying the promot n-induced pluripote e cytokines presen	on of bone formation bent stem cells: Is there at in the formulation? Torthop, Surg., Gradua	y platelets and meg a signaling pathway	akaryocytes that operate	s
15:10 ~	15:40 P	oster	Biomaterials 1		Мо	derator Y.	Inagaki
1-Po-14				a alloy screws and plate to Hiromoto, et al., Nati			nce…S1717
1-Po-15	porous stru	icture t	o regulate antibact	ted iodine-loaded titani erial and osteoconducti Orthop. Surg., Gradua	ve properties	_	nivS1717
1-Po-16	Investigation	of bioa	ctivity of three-dim	ensional printed β -trica of Orthop. Surg., Kobe	alcium phosphate sc	caffolds	
1-Po-17	benign bon	e lesior	ns: A prospective m				
	•••••	•••••		····Kunihiro Ikuta, et a tal and Cutaneous Surg Graduate		rated Medici	ne,
1-Po-18				v aspirate on bone form	nation in unidirectio	onal porous	
1-Po-19	Acceleration	of bone	union using artific	cial bone with bFGF int Hiroki Saito, et al., De	roduced by in situ-f	ormed gelati	n
15:50 ~	· 16:20 P	oster	Biomaterials 2		N	Ioderator :	N. Saito
1-Po-20	Osteogenic e	ffects b	y magnetron sputt	ering of strontium on F	PEEK		
1-Po-21	Effect of drug	g-loade	d PLLA coating on	Orthop. Surg., Gradua magnesium alloy bioak <i>ii Noguchi, et al.</i> , Dept.	sorbable coils for b	one substitut	tes
1-Po-22	Evaluation of	type I	collagen gene exp	pression in human oste et al., Graduate Schoo	oblasts on F-DLC-co	oated	
1-Po-23	Tortional stre	ength o	f new type u-HA/P	LLA screw: Compared Masaya Sato, et a	with conventional s	crew	
1-Po-24	Reverse buttr	ress thr	ead prevents screv	v loosening: Axial cycli ······Masaya Sato, et a	c load test with conv	ventional	
1-Po-25				unidirectional porous osuke Sato, et al., Dept.			
16:30 ~	17:00 P	oster	Infection			Moderator	S. Abe
1-Po-26	marrow-deri	ived cel	ls	ent antibiotic concentra		1 (1) (1)	. 04500
1-Po-27	Antifungal ev	aluatio	n for a yeast and a	of Orthop. Surg., Kobe filamentous fungus by Masaya Ueno, et al.	silver containing		
1-Po-28	Mechanisms a pyogenic	of infects	ction control of pos ylitis-posterior fixat	terior fixation in pyoge ion rat model	nic spondylitis: Initi	al evaluation	of
	•••••		·····Hisanor	i Gamada, et al., Dept.	of Orthop. Surg., U	niv. of Tsukt	ıba…S1724

1-Po-29	Gentamicin minimum biofilm eradication concentration (MBEC) and resistance genes in MRSA clinical isolates ····································						
1-Po-30	Efficacy of pretreatment with sodium hypochlorite aqueous and povidone-iodine for early stage of biofilm: an <i>in vitro</i> study····································						
1-Po-31	Questioning microbiome of orthopedic infections illustrates pitfa studies; New pathogen detection method by next-generation se real-time PCR	equencing with quantitative					
17:10 ~	~ 17:35 Poster Motion analysis: Lower extremity	Moderator T. Matsushita					
1-Po-32	Development and validation of a knee joint varus thrust detection and machine learning · · · · · · · · · · · Takuya Ibara, et al., De Graduate School of Medical and Dental Sciences,	ept. of Functional Joint Anatomy,					
1-Po-33	Plantar pressure pattern during walking in patient with medial ki						
1-Po-34	Comparison of gait analysis before and after unilateral TKA surge Jun Fukui, et al., Dept. of Orthop./Rheumatology, Muscu Program in Integrated Medicine, Graduate Science.	ery for knee osteoarthritis uloskeletal and Cutaneous Surg.,					
1-Po-35	Pre- and post-operative gait measurement of knee osteoarthritis analysis sensors ···································	patients using gait					
1-Po-36	Correlation of knee instability with alignment and repetitive phys knee osteoarthritis: A cross-sectional study	sical activity in patients with					
17:50 -	~ 18:30 Poster Cartilage: Regeneration, treatments	Moderator Y. Akasaki					
1-Po-37	The chondroprotective effect of AICAR involves chondrocyte end						
1-10-37		Dept. of Orthop./Rheumatology,					
1-Po-38	Donor-to-donor characteristics variation of human juvenile cartilal revealed by combined histological evaluation in a nude rat choransplantation model	age-derived chondrocyte sheets					
1-Po-39		tabolism					
1-Po-40	Program in Integrated Medicine, Graduate Se Minced cartilage implantation with silk-elastin and spider-silk intrabbit model ····································	to the osteochondral defect in					
1-Po-41	Depletion of CCR7 inhibited growth imbalance after physeal inju						
		ka, et al., Dept. of Orthop. Surg., ool of Medicine, Hokkaido UnivS1731					
1-Po-42	Chondroprotective and anti-inflammatory effects of direct intra-a CD271-positive mesenchymal stem cells in an animal model of	rticular administration of					
	Takumi Sakamoto, et al., Dept. of Orthop. and Rehab						

- 1-Po-43 Functional analysis of KLF15-conditional knock out mice in a fracture model
 - ····· Shotaro Tachibana, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S1732
- 1-Po-44 Self-assembled articular cartilage-hydroxyapatite conjugate with growth factors for combined articular cartilage and subchondral bone repair
 - ······ Takanori Kumai, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine···S1732

1st Day October 19 Poster 2

Daiki Nakajima, et al., Dept. of Orthop, Institute of Biomedical Sciences, Tokushima Univ. Graduate School- Tokashima Univ. Medical Surrey	10:00	~ 10:30 Poster Risk management, others	Moderator D. Nozawa
Tokushima Univ. Graduate School	1-Po-45	Comparison of protection goggle for occupational	radiation exposure; A cadaveric study
1-Po-46 Current status and issues of occupational exposure for orthopaedic surgeons, in-hospital survey		····· Daiki Nakajima, et al., Dep	ot. of Orthop., Institute of Biomedical Sciences,
1-Po-47 Detection of risk of musculoskeletal disorders using skin autofluorescence values of terminal glycation products AGEs			Tokushima Univ. Graduate School···S17
1-Po-47 Detection of risk of musculoskeletal disorders using skin autofluorescence values of terminal glycation products AGEs	1-Po-46	Current status and issues of occupational exposure	e for orthopaedic surgeons, in-hospital survey
glycation products AGEs ———————————————————————————————————		······ Keigo Nagasawa, et al., Dept. o	of Orthop. Surg., Moriya Daiichi General Hosp.···S17
Taisuke Seki, et al., Dept. of Orthop. Surg., Aichi Medical Univ. Medical Center— The risk factor of malnutrition in orthopaedic surgery "Masahiro Iinuma, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine, Yokohama City Seibu Hosp Tokohori, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ Takuro Sugiyama, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ Takuro Sugiyama, et al., Dept. of Orthop. Surg., Kurume Univ To: 40 ~ 11: 10 Poster Others Moderator T. Akis Theo-51 Investigation of foot X-ray factors on the progression of hallux valgus "Mie Univ. Graduate School of Medicine Theo-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students	1-Po-47	Detection of risk of musculoskeletal disorders using	ng skin autofluorescence values of terminal
The risk factor of malnutrition in orthopaedic surgery		glycation products AGEs	
		····· Taisuke Seki, et al., Dept. of Orth	nop. Surg., Aichi Medical Univ. Medical Center…S17
Yokohama City Seibu Hosp 1-Po-49 A novel rat model for knee extension contracture after knee joint surgery	1-Po-48	The risk factor of malnutrition in orthopaedic surg	gery
A novel rat model for knee extension contracture after knee joint surgery "Yu Kobori, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ." Early effects of extracorporeal shock wave therapy on wound healing in rats "Takuro Sugiyama, et al., Dept. of Orthop. Surg., Kurume Univ." 10:40 ~ 11:10 Poster Others Moderator T. Akis 1-Po-51 Investigation of foot X-ray factors on the progression of hallux valgus "Akinobu Nishimura, et al., Dept. of Orthop. and Sports Medicine, Mie Univ. Graduate School of Medicine." 1-Po-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students Mio Kimura, et al., Dept. of Orthop. Surg., Univ. of Tsukuba 1-Po-53 Relationship between static balance function and superficial plantar sensation in lifesaving-stimulation of superficial plantar sensation by barefoot exercise on sandy ground may prevent falls "Shota Ichikawa, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine 1-Po-54 Validity of Risser grade on whole standing spine XP "Takahiro Mui, et al., Dept. of Orthop. Surg., Nara Medical Univ 1-Po-55 The degree of locomotive syndrome and the phase angle determined by the bioelectrical impedance method are also related in the new classification: Bunkyo Health Study "Yuichiro Machiyama, et al., Dept. of Orthop., Juntendo Univ 1-Po-56 Increase in people with locomotive syndrome during COVID-19: The results of locomotive syndrome check-up		Masahiro Iinuma, et al., Dept. of Orthop.	. Surg., St. Marianna Univ. School of Medicine,
1-Po-50 Early effects of extracorporeal shock wave therapy on wound healing in rats Takuro Sugiyama, et al., Dept. of Orthop. Surg., Kurume Univ 10:40 ~ 11:10 Poster Others Moderator T. Akis 1-Po-51 Investigation of foot X-ray factors on the progression of hallux valgus Mie Univ. Graduate School of Medicine 1-Po-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students Mio Kimura, et al., Dept. of Orthop. Surg., Univ. of Tsukuba 1-Po-53 Relationship between static balance function and superficial plantar sensation in lifesaving-stimulation of superficial plantar sensation by barefoot exercise on sandy ground may prevent falls Shota Ichikawa, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine 1-Po-54 Validity of Risser grade on whole standing spine XP Takahiro Mui, et al., Dept. of Orthop. Surg., Nara Medical Univ 1-Po-55 The degree of locomotive syndrome and the phase angle determined by the bioelectrical impedance method are also related in the new classification: Bunkyo Health Study "Yuichiro Machiyama, et al., Dept. of Orthop., Juntendo Univ 1-Po-56 Increase in people with locomotive syndrome during COVID-19: The results of locomotive syndrome check-up Taro Funamoto, et al., Div. of Orthop. Surg., Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki 1-Po-57 Comparative study of romosozumab and zoledronate in bone microstructure and mechanical strength: Rat osteoporosis model			Yokohama City Seibu Hosp.···S17
Early effects of extracorporeal shock wave therapy on wound healing in rats "Takuro Sugiyama, et al., Dept. of Orthop. Surg., Kurume Univ	1-Po-49	A novel rat model for knee extension contracture a	after knee joint surgery
1-Po-51 Investigation of foot X-ray factors on the progression of hallux valgus		Yu Kobori, et al., Dept. of Orthop. Su	ırg., Graduate School of Medicine, Kyoto Univ.···S17
1-Po-51 Investigation of foot X-ray factors on the progression of hallux valgus	1-Po-50	Early effects of extracorporeal shock wave therapy	on wound healing in rats
Investigation of foot X-ray factors on the progression of hallux valgus		····· Takuro Sugiyam	a, et al., Dept. of Orthop. Surg., Kurume Univ.···S17
Akinobu Nishimura, et al., Dept. of Orthop. and Sports Medicine, Mie Univ. Graduate School of Medicine I-Po-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students	10:40	~ 11:10 Poster Others	Moderator T. Akisue
Akinobu Nishimura, et al., Dept. of Orthop. and Sports Medicine, Mie Univ. Graduate School of Medicine Po-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students	-Po-51	Investigation of foot X-ray factors on the progressive	on of halluv valous
Mie Univ. Graduate School of Medicine 1-Po-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students	10 01	• •	
I-Po-52 Longitudinal evaluation of musculoskeletal examination in growth classification of elementary and middle school students ········ Mio Kimura, et al., Dept. of Orthop. Surg., Univ. of Tsukuba···· Relationship between static balance function and superficial plantar sensation in lifesaving-stimulation of superficial plantar sensation by barefoot exercise on sandy ground may prevent falls ············ Shota Ichikawa, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine···· Surg., St. Marianna Univ. School of Medicine···· Surg., Nara Medical Univ.··· Surg., Nara Medical Univ.··· Surg., Nara Medical Univ.··· Surg., Nara Medical Univ.·· Surg., Nara		11000000 110000000000000000000000000000	
and middle school students ······· <i>Mio Kimura, et al.</i> , Dept. of Orthop. Surg., Univ. of Tsukuba····S Relationship between static balance function and superficial plantar sensation in lifesaving-stimulation of superficial plantar sensation by barefoot exercise on sandy ground may prevent falls .··········· <i>Shota Ichikawa, et al.</i> , Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine···· 1-Po-54 Validity of Risser grade on whole standing spine XP .····································	1-Po-52	Longitudinal evaluation of musculoskeletal examin	
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1-Po-54 Validity of Risser grade on whole standing spine XP			o. Surg., St. Marianna Univ. School of Medicine…S17
Takahiro Mui, et al., Dept. of Orthop. Surg., Nara Medical Univ. 1-Po-55 The degree of locomotive syndrome and the phase angle determined by the bioelectrical impedance method are also related in the new classification: Bunkyo Health Study	1-Po-54		
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Increase in people with locomotive syndrome during COVID-19: The results of locomotive syndrome check-up ····································			
Increase in people with locomotive syndrome during COVID-19: The results of locomotive syndrome check-up ····································		······Yuichiro Mack	hiyama, et al., Dept. of Orthop., Juntendo Univ.···S17
syndrome check-up ····· <i>Taro Funamoto, et al.</i> , Div. of Orthop. Surg., Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki···· 11: 20 ~ 11: 50	1-Po-56		
Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki 11: 20 ~ 11: 50			
1-Po-57 Comparative study of romosozumab and zoledronate in bone microstructure and mechanical strength: Rat osteoporosis model			
strength: Rat osteoporosis model	11:20	~ 11:50 Poster Osteoporosis	Moderator H. Inose
strength: Rat osteoporosis model			
•	1-Po-57	Comparative study of romosozumah and zoledrons	ate in hone microstructure and mechanical
Ryota Takase, et al., Dept. of Rehabilitation Medicine, Oita Univ. Hosp	1-Po-57		ate in bone microstructure and mechanical

1-Po-58			otion after discontinuation	of anti-RANKL antibody hizu, et al., Dept. of Orthop. Surg.,	
				chool of Medicine, Hokkaido Univ.···S1	730
1-Po-59	Investigation of		rheumatic drug iguratimo		100
1 10 00		ated osteoporosis	Theumade drug iguradino	u on	
	-		of Orthon Surg Graduate	e School of Medicine, Osaka Univ.···S1	740
1-Po-60				s osteomalacia-like bone loss with	140
110 00				nida, et al., Dept. of Orthop. Surg.,	
	increased wic				740
1 Do 61	Effects of bianh			Dental Sciences, Kagoshima Univ.···S1	740
1-Po-61				on bone and kidney in a rat model	741
1 D- C0				t al., Akita Kousei Medical Center···S1	741
1-Po-62			s and back pain in osteopo		741
			Nosure Murata, et al., Dep	ot. of Orthop. Surg., Kitasato Univ.···S1	
15:10~	15:40 Pos	ster Fracture		Moderator Y. Ason	u
1-Po-63	The effect of po	olyamine on healing o	f fractures		
	•••••	·····Takahi	ro Suzuki, et al., Saitama M	Iedical Center, Jichi Medical UnivS1	742
1-Po-64	The effects of r	rotation and angular d	eformities of the radius: Ar	n anatomical study of fresh	
	frozen cadave	ers ·····	··· Yukie Metoki, et al., Dep	ot. of Orthop. Surg., Kitasato Univ.···S1	742
1-Po-65	Optimal plate s	selection and fixation t	echniques for diaphyseal f	ractures of the forearm:	
	Insights from	n finite element analys	is of stress concentration a	and strain	
	····· Yusuke N	Matsuura, et al., Dept.	of Orthop. Surg., Graduat	e School of Medicine, Chiba Univ.···S1	743
1-Po-66	Decreased radi	ial inclination diminisl	nes effects of ulnar abutme	ent syndrome: A mechanical study	
	using finite el	lement analysis			
	····· Yusuke N	Matsuura, et al., Dept.	of Orthop. Surg., Graduat	e School of Medicine, Chiba Univ.···S1	743
1-Po-67	Nonunion after	osteoporotic vertebra	al compression fracture do	es not affect clinical outcomes:	
	A multicenter	r prospective study · · ·	·····Masaru	Hatano, et al., Daiwa Chuo Hosp.···S1	744
1-Po-68			p fracture in Okinawa usin		
	•••••		······ Yoshiro Yoshikawa	a, et al., Okinawa Red Cross Hosp.···S1	744
15:50~	16:20 Pos	ster Regeneration a	and treatments 1	Moderator Y. Yanagisawa	a
1-Po-69	New mechanism	m of vasculogenesis a	and osteogenesis promoted	l by bone marrow mononuclear	
			ion-mediated cell-cell inter		
				Jniv. Graduate School of MedicineS1	745
1-Po-70				caryocytes and platelets derived	
			em cells in a rat lumbar po		
	·····Taka	uhito Arai, et al., Dept.	of Orthop. Surg., Graduat	e School of Medicine, Chiba Univ.···S1	745
1-Po-71	Development o	of a method to promot	e healing of intractable frac	ctures by using lively children's	
		alize the bone environ			
	• • • • • • • • • • • • • • • • • • • •		······ Toshifumi Murak	ami, et al., Dept. of Orthop. Surg.,	
				chool of Medicine, Hokkaido Univ.···S1	746
1-Po-72	Effects of abalo	oparatide and zoledro	nate on bone healing in a ra	at femoral osteotomy model	
				litation Medicine, Oita Univ. Hosp.···S1	746
1-Po-73			on induced membrane-deri		
	bone different			_	
	·····Kyol	hei Takase, et al., Dep	t. of Orthop. Surg., Kobe U	Jniv. Graduate School of Medicine…S1	747
1-Po-74				3-SES) for enhance fracture	
	healing in rats	s femur fracture mode	el ·····Yuta Tsubouchi,	et al., School of Physical Therapy,	
				ation Reiwa Health Sciences Univ ··· S1	747

16:30	~ 17:00 Poster Regeneration and treatments 2	Moderator Y. Asou	
1-Po-75	Regulation of osteoblast to osteocyte differentiation by Cyclin-depe		
	····· Tomoyuki Tanaka, et al., Dep	pt. of Orthop. and Spinal Surg.,	
	Graduate School of Medical and Dental Sciences, To	okyo Medical and Dental UnivS1748	
1-Po-76	Effect of carbonyl derivatives on the mineralization of osteoblast		
	······ Tetsuya Seto, et al., Dept. of Orthop. Surg., Yamaguchi Univ	v. Graduate School of Medicine…S1748	
1-Po-77	Mesenchymal stem cell spheroid combined with basic fibroblast g	rowth factor accelerates callus	
	formation in a mouse fracture model		
	······ Kugo Takeda, et al., Kitasato Univ. Gradua	ate School of Medical Sciences…S1749	
1-Po-78	The preventive effect of transcutaneous CO ₂ application on disuse	bone and muscle atrophy	
	······Ryota Nishida, et al., Dept. of Orthop. Surg., Kobe Univ	v. Graduate School of Medicine…S1749	
1-Po-79	Development of a novel bone-targeted BMP-2 carrier using polyph	osphodiester (PEP Na)	
	······ Hiromasa Hirai, et al., Dept. of Orthop. Surg., Graduate Sci	chool of Medicine, Osaka Univ.···S1750	
1-Po-80	Kielin/chordin-like protein enhances effect of bone morphogenic p	protein-2 to induce	
	osteoblast differentiation · · · · · · · · · · Kei Nagasaki, Dept.	of Orthop. Surg., Showa Univ.···S1750	
17:10	~ 17:40 Poster Bone: Others	Moderator M. Hakozaki	
1-Po-81	Effects of anti-tumor agents on bone microstructure and metabolis		
1 D- 00		_	
1-Po-82	Effects of soft tissue sarcoma and doxorubicin on bone metabolism		
1 D 00	Fumihito Kasama, et al., Dept. of Orthop. Surg., Akita Univ	7. Graduate School of Medicine\$1751	
1-Po-83	The effectiveness and safety of DF-HA in a rat hip MIA model		
4 70 04	· Hiroakira Terakawa, et al., Dept. of Orthop. Surg., Graduate So		
1-Po-84	Morphological changes of osteoblasts and osteoclasts in the fractu	ired mice exposed to	
	long-term hyperglycemia		
1 D 05	············Hitomi Fujikawa, et al., Dept. of Orthop. Surg., Shiga l		
1-Po-85	An effect of systemic administration of dexamethasone for the indu		
1 D 00	bone defect model of rat ···········Sho Totsuka, et al., Dept. of Orthop. Surg., Univ. of Tsukuba···S1753		
1-Po-86	Cellular senescence is associated with ischemic osteonecrosis whi	le mesenchymal stem cell	
	conditioned medium inhibits bone collapse		
	·····Masanori Okamoto, et al., De		
	Musculoskeletal and Cutaneous Surg., Pr		
	Graduate Sch	nool of Medicine, Nagoya Univ.···S1753	
17:50	~ 18:25 Poster Cartilage: Others	Moderator T. Matsushita	
1-Po-87	KLF15 affects the progression of arthropathy in inflammatory arth	nritis	
	Kensuke Anjiki, et al., Dept. of Orthop. Surg., Kobe Univ		
1-Po-88	Chondrogenic differentiation of human mesenchymal stem cells of	n FGF2-induced silk fibroin	
1-Po-89	Articular cartilage degeneration in the patients with idiopathic oste		
	head: Evaluation using T2 mapping MRI ·············Hiroki Kaneta		
	Graduate School of Biomedical and He		
1-Po-90	COX-2 selective inhibitors suppress drug-induced cell apoptosis in		
	articular chondrocytes		
		Shiga Univ. of Medical Science…\$1755	
1-Po-91	Regulation of chondrocyte differentiation by CCN2 through bindin		
110 01	Naohiro Higashihara, et al., Advanced Research Center for C		
	Truonito Thgushinutu, et un, mavaneca Research Center 101 C	Okayama Univ. Dental School…S1756	
		Okayama Univ. Dentai School S1750	

1-Po-92	The expression of β -catenin-independent Wnt signaling in degenerated meniscus
	••••••••••••••••••••••••••••••••••••••
1-Po-93	Evaluation of histological characteristics of meniscus using colorimeter
	1st Day October 19 Poster 3
10:00 ~	~ 10:30 Poster Peripheral nerve Moderator T. Ogawa
1-Po-94	Development of a novel animal model mimicking chronic entrapment neuropathy using sciatic nerve ···································
1-Po-95	The effects of the transcriptional factor REST on axonal marker GAP43
1-Po-96	Juntendo Univ. Graduate School of Medicine…S1758 Cellular mechanisms of Schwann cell loaded artificial nerve
110 00	
1-Po-97	Changes due to peripheral nerve compression in rat models of menopausal women
1_Do_00	
1-Po-98	tunnel syndrome ····································
1-Po-99	Methylcobalamin shifts macrophage phenotype toward anti-inflammatory direction after
	peripheral nerve injury by promoting Ras-mediated Akt phosphorylation
10 : 10	Toru Iwahashi, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ \$1760
10:40 ~	~ 11:10 Poster Motion and imaging analysis: Upper extremity Moderator A. Nimura
1-Po-100	Analysis of hand and finger movements during blood collection procedures using a
	three-dimensional optical motion analysis system: Comparison of experts and novices
1-Po-101	Tip pinch strength is accurately measured?
1 Do 100	
1-Po-102	Motion analysis of orthopaedic surgeons in elbow arthroscopy
	Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1761
1-Po-103	Shoulder joint rotation angle that require intervention in medical checkups to prevent shoulder
	pain during pitching in baseball players
1-Po-104	Evaluation of elbow valgus instability in professional baseball team medical check: Examination
	of ultrasonography and computed tomography
1-Po-105	
1 10 100	
11:20 -	~ 12:00 Poster Surgery: Spine, others Moderator T. Toyone
1-Po-106	Longitudinal changes in outcomes of transcranial stimulation motor evoked potential monitoring during high-risk spine surgery

······· Hiroki Ushirozako, et al., Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine···S1763

1-Po-107	Association between proximal junctional kyphosis and vertebral bafter adult spinal deformity surgery	oody Hounsfield unit values
1-Po-108		gth in patients with adult
1-Po-109	spinal deformity ···· Shuhei Ohyama, et al., Dept. of Orthop. Sur Anatomical relationship between medial diaphragm leg and segm intraoperative segmental artery injury	
		cine, Research and Innovation, ate School of Medical Sciences…S1765
1-Po-110	Augmented reality navigated microscopic spine surgery Fumitake Tezuka, et al., Dept. of Orthop., In Tok	stitute of Biomedical Sciences, ushima Univ. Graduate School…S1765
1-Po-111	Pre- and Post-operative change in the length of the pars defect aft terminal-stage lumbar spondylolysis	er Smiley face rod method for
1-Po-112	Percutaneous pedicle screw placement for robot-assisted spine su	urgery
1-Po-113	Working the street of the	nt idiopathic scoliosis:
15 . 10		
15:10~	Poster Tendon and ligament: Pathology	Moderator T. Soejima
1-Po-114	Effects of different exercise conditions on tendon-to-bone attachn Validation in the supraspinatus tendon, patellar tendon, and Ach	illes tendon attachment sites
1-Po-115	Cxcl14-mediated stromal cell-macrophage interaction as therapeu dermal fibrosis · · · · · · · · · · Atsushi Goto, et al., Dept. of Orthop. Research field of Medical Sciences, Graduate	Surg., Div. of Disease Control,
1-Po-116	Mechanism of inflammation of human tenocyte through transient	
1-Po-117	Relationship between oxidative stress in the rotator cuff and transmeasurement using in diabetic rats	
1-Po-118	Biochemical markers of mitochondria degeneration are increased stumps with increased signal intensity changes on MRI Masaya Kusunose, et al., Dept. of Orthop. Surg., Kobe Univ	1 in type 3 rotator cuff tendon
1-Po-119	Characteristics of abnormal blood flow with dynamic magnetic rephase of frozen shoulder ······ Tomohiro Saito, et al., Dept.	
1-Po-120	Aging promotes heterotopic ossification in a mouse Achilles teno	
15:50~	16:20 Poster Tendon and ligament: Treatments	Moderator M. Hayashi
1-Po-121	The effects of fibroblast growth factor-2 (FGF-2) on Achilles tender	on injury on rats

1-Po-123	In vivo tendon injury healing using non-thermal atmospher A rat model ····································	
1-Po-124	Antioxidants reduce oxidative stress and accelerate the hea	ling after rotator cuff repair
1-Po-125	Hyper-dry amniotic membrane prevents peritendinous adhorepaired tendon microstructure and mechanical function Tatsuro Hirokawa, et al., Dept. of Orthop. Surg., I	esion and promotes recovery of
1-Po-126	Biomechanical study comparing suture techniques for med Eiji Sasaki, et al., Dept. of Orthop. Surg., Hirosak	ial meniscus posterior root repair
16:30 ~	17:00 Poster Tendon and ligament: Knee joint	Moderator K. Nakagawa
1-Po-127	Pathological investigation of mucoid degeneration in the an osteoarthritis patients ····· Shuji Toyono, et al., Dept. of Co	
1-Po-128	Scleraxis-expressing cells in remnant tissue contribute to eximprovement in anterior cruciate ligament reconstruction	
1-Po-129	Factors influencing the graft maturity on magnetic resonan ligament reconstruction	ce imaging after anterior cruciate
1-Po-130	Quantification of the pivot-shift test using a navigation systemeniscal injuries ····································	m and its relationship with lateral
1-Po-131	Effects of internal bracing with high-strength suture on the ligament reconstruction: A biomechanical and histologica	l study in a porcine model
1-Po-132	The presoaking grafts in vancomycin does not exacerbate by model using rats ····································	one graft healing in the ACLR . of Joint Surg. and Sports Medicine,
17:10~	17:40 Poster Tendon and ligament: Others	Moderator A. Teramoto
1-Po-133	A histological evaluation of the tibial attachment of the post sagittal and coronal planes ··············Akihiro Yamash	
1-Po-134	Differences in collagen types composition of semitendinose physical maturity	as and quadriceps tendons by
1-Po-135	β2-microglobulin amyloid deposition and RAGE related infl- the ligamentum flavum of haemodialysis patients … Keisuke Ishikawa, et al., Dept. of Orthop. Surg., Tohoki	ammation pathway in thickening of
1-Po-136	A new suture method for finger PIP joint collateral ligamen	t: Cadaver study
1-Po-137	Morphology of the radial attachment of the radioulnar ligan	nent and related osseous landmarks
1-Po-138	Enthesopathy of the medial metatarsosesamoid ligament in <i>Hiroki Yabiku, et al.</i> , Orthop. Surg., Graduate Scho	

17:50~	18:20	Poster	Motion analysis	: Rehabilitation	n, others		Moderator	N. Ogata
1-Po-139	training	after AC	ng muscle strength L reconstruction					
			uichiro Soma, et al					HospS1780
1-Po-140			brid assistive limb			econstructi	on:	
			ic examination for				(m 1 1 1	7 04500
1 D- 1/1			uichiro Soma, et al					
1-Po-141			of Hybrid Assistiv hroplasty ······					
	aner tot	ai iiip ai u	III Opiasty	Nagoya City U		-	=	
1-Po-142	The repor	t of using	g the lumbar-type l					nices offor
11011			Yuki Mataki, et al					HospS1781
1-Po-143			e effectiveness of v					•
	sports: A	study in	able-bodied subject	cts · · · · · · Ryo A	Takazawa, et d	al., Dept. o	f Physical The	erapy,
				Ibaraki	Prefectural U	niv. of Hea	ılth Sciences I	HospS1782
1-Po-144			in order to continu					
	•••••	• • • • • • • • • • • • • • • • • • • •		···Saki Inanaga,	et al., Dept.	of Orthop.	Surg., Kosei I	Hosp.···S1782
			2nd Day	October 20	Room 1			
	-							. 1
8:00~9	_	mposiu		41 19		derators	S. Matsuda,	M. Takao
Next g	eneration v	with com	nputer assisted o	ruiopaedic sur	rgery			
2-1-S13-1			opment and social					

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2-1-S13-2			trategies for rare d		1	T1	1 D1	
	••••••		, et al., Dept. of M Faculty of Medicin					
2-1-S13-3	Develop		omputer-assisted t					UIIIV. ~ 31763
2 1 515 5			ii, et al., Dept. of (enter…S1784
2-1-S13-4			n of augmented re		ony o mearcar	Cinv. Isur	anii Wicarcai C	cinci biroi
			ushi Tanji, et al., [•	Surg., Japane	se Red Cro	ss Ashikaga I	Hosp.···S1784
2-1-S13-5	Develop	ment of a	custom-made rod	for spinal deform	nity correctio	n with hig	h biocompatib	oility
	•••••				·····Hideki	Sudo, Dep	t. of Orthop. S	Surg.,
			Faculty of N	Iedicine and Gra	aduate School	of Medici	ne, Hokkaido	Univ.···S1785
2-1-S13-6			ccuracy and related					
	robotic	-assisted	TKA					
			Institute	of Biomedical S	ciences, Toku	ıshima Uni	v. Graduate S	chool···S1785
9:30~1	10:50	Symposi	um 14		Mod	erators l	R. Kuroda, N	I. Ikeuchi
Cutting	g edge of t	eatment	t and research or	n osteoarthritis	of the knee			
2-1-S14-1	Longitud	linal epid	emiological study	on the bone mar	row lesions in	n early kne	e osteoarthrit	is
			ki, et al., Dept. of					
2-1-S14-2	The core	nal inclin	nation of the media	l tibial plateau at	ffects coronal	gait kinen	natics	
	•••••			·····Tomoho	aru Mochizuk	<i>i, et al.</i> , Di	v. of Orthop. S	Surg.,
				Dept.	of Regenerat	tive and Tr	ansplant Med	icine,
			Niiş	gata Univ. Gradu	ate School of	Medical a	nd Dental Scie	ences···S1786

2-1-S14-3	MRI 3D analysis for knee osteoarthritisNobutake Ozeki, et al., Cent	er for Stem Cell and Regenerative Medicine,
		Tokyo Medical and Dental Univ.···S1787
2-1-S14-4	Mechanisms of pain in knee osteoarthritis	0 IZ 1'M 1' 10 1 1 IZ 1'II ' 01707
2-1-S14-5	Usefulness and limitation of biomarkers for treatm	
2-1-S14-6	Meniscal centralization to prevent progression of k	d., Dept. of Joint Surg. and Sports Medicine,
	Graduate School of Medical and Denta	al Sciences, Tokyo Medical and Dental Univ.···S1788
	~ 12:00 Special Symposium paedic surgery and SDGs	Moderators K. Takeshita, H. Kawano
2-1-SS-1	Tsukuba super science city initiative	
2-1-SS-2	Safety and feasibility of transportation service using patients with musculoskeletal disorders; Approach	to SDGs from Orthopaedic surgeon
2-1-SS-3	AI hospital project for better health care	al., Dept. of Orthop. Surg., Univ. of Tsukuba···S1789
2-1-SS-4	Application of telemedicine to the clinical field of or	utsumoto, Dept. of Orthop. Surg., Keio Univ.···S1790
- 1 00 1	······································	
	Faculty of Medicine and G	raduate School of Medicine, Hokkaido Univ.···S1790
12:10 ~	- 13:20 Luncheon seminar 9	Moderator M. Akagi
2-1-LS9	Robotic-assisted TKA: Optimization of the surgery anDaisuke Hamada, et al., Dept.	
		Tokushina Univ. Graduate School51791
	~ 15:00 Special program 1	Moderator H. Kamada
	~ 15:00 Special program 1 notive organs research for athletes	
2-1-SP1 2-1-SP1	notive organs research for athletes Kimiyasu Kudo, Graduate School of Comprehe Comprehensive Human Sciences Doctoral PrHitoshi Shiraki, Faculty of I	Moderator H. Kamada ensive Human Sciences Degree Programs in ogram in Sports Medicine, Univ. of Tsukuba Health and Sport Sciences, Univ. of Tsukuba
2-1-SP1 2-1-SP1 2-1-SP1	notive organs research for athletes	Moderator H. Kamada ensive Human Sciences Degree Programs in ogram in Sports Medicine, Univ. of Tsukuba Health and Sport Sciences, Univ. of Tsukuba
2-1-SP1 2-1-SP1	notive organs research for athletes	Moderator H. Kamada ensive Human Sciences Degree Programs in ogram in Sports Medicine, Univ. of Tsukuba Health and Sport Sciences, Univ. of Tsukuba
2-1-SP1 2-1-SP1 2-1-SP1	notive organs research for athletes	Moderator H. Kamada ensive Human Sciences Degree Programs in ogram in Sports Medicine, Univ. of Tsukuba Health and Sport Sciences, Univ. of Tsukuba ki, Dept. of Orthop. Surg., Univ. of Tsukuba Moderator T. Yamashita pment and strengthening: From the
2-1-SP1 2-1-SP1 2-1-SP1 15:10	notive organs research for athletes Kimiyasu Kudo, Graduate School of Comprehe Comprehensive Human Sciences Doctoral PrHitoshi Shiraki, Faculty of IMasashi Yamaza 16:10 Cultural lecture Current situation and challenges of top athlete develo management perspective	Moderator H. Kamada ensive Human Sciences Degree Programs in ogram in Sports Medicine, Univ. of Tsukuba Health and Sport Sciences, Univ. of Tsukuba ki, Dept. of Orthop. Surg., Univ. of Tsukuba Moderator T. Yamashita pment and strengthening: From the fealth and Sports Sciences, Univ. of Tsukuba···S1791
2-1-SP1 2-1-SP1 2-1-SP1 15:10	notive organs research for athletes Kimiyasu Kudo, Graduate School of Comprehe Comprehensive Human Sciences Doctoral PrHitoshi Shiraki, Faculty of Masashi Yamaza 16:10 Cultural lecture Current situation and challenges of top athlete develo management perspectiveKaori Yamaguchi, Faculty of H	Moderator H. Kamada ensive Human Sciences Degree Programs in ogram in Sports Medicine, Univ. of Tsukuba Health and Sport Sciences, Univ. of Tsukuba ki, Dept. of Orthop. Surg., Univ. of Tsukuba Moderator T. Yamashita pment and strengthening: From the ealth and Sports Sciences, Univ. of Tsukuba···S1791

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Yokohama City Seibu Hosp.···S1792

Posterior malleolar fracture: Anatomy and biomechanics

2-2-EL7-1

2-2-EL7-2	New frontiers in fracture care - Is there a place	and need for sensor/actor implants?Tim Pohlemann, Hand and Recovery,
		If and Recovery, all Faculty of Saarland Univ., Saarland, Germany…S1792
9:10 ~ 1 New tee	0 : 30 GJSOT Symposium 3 chnology-3 (Spine & Joint)	Moderators W. Mittelmeier, T. Ozaki
2-2-GS3-1		GJSOT Fellow from Germany-2···S1793
2-2-GS3-2		Surg., Osaka Medical and Pharmaceutical Univ.···S1793
2-2-GS3-3	Comparison of pedicle screw accuracy between CT navigation for posterior spinal fusion for n	
2-2-GS3-4	Disruptive innovation: The relevance of registri Dietmar Pennig, St. Vinzenz-Hosp. Colog	es in Orthopaedic and Trauma Research ne, Academic Teaching Hosp. Univ. of Cologne…S1794
2-2-GS3-5	OpenCap: Markerless 3D motion analysis	rthop. Surg., Okayama Saiseikai General HospS1795
2-2-GS3-6	New surgical option by autologous tissue to pre Tomoya Iseki, et al., Dep	event a progression of knee osteoarthritis t. of Orthop. Surg., Hyogo College of Medicine…S1799
2-2-GS3-7	(Withdrawn)	
2-2-GS3-8	(Withdrawn)	
10:40 ~	12:00 Special program 2 al artificial disc replacement: current status in	Moderators M. Neo, D. Sakai
2-2-SP2-1 2-2-SP2-2		······ <i>Toshitaka Yoshii</i> , Dept. of Orthop. Surg., and Dental Univ. Graduate School of Medicine…S1797
2-2-SP2-3		·· Ken Ishii, Dept. of Orthop. Surg., Keio Univ.···S179
2-2-SP2-4	Francis Ch. Kilian, SPINE Cent Cervical artificial disc replacement	er, Catholic Hosp. Koblenz, Koblenz, Germany…S1790
	Minimally Invasive	e Spine Surg., Hosp. for Special Surg., NY, USA···S179
12:10~	13:20 Luncheon seminar 10	Moderator M. Nakamura
2-2-LS10	Background theory and clinical practice of HAL Takashi Nakajima, D	for medical lower limb type ept. of Neurology, NHO Niigata National HospS1799
13:30 ~	14:30 Instructional lecture 8	Moderators E. Tsuda, Y. Hada
2-2-EL8-1	Practice of robotics rehabilitation training for pa	atients with musculoskeletal disorders et al., Dept. of Orthop. Surg., Univ. of Tsukuba…S180
2-2-EL8-2	Robotic rehabilitation for musculoskeletal disor	ders O Rehabilitation Centre, Malacca City, Malaysia…S1800
14:40 ~	15:40 Instructional lecture 9	Moderators T. Nakajima, E. Chosa
14:40 ~ 2-2-EL9-1	15:40 Instructional lecture 9 Novel rehabilitation approaches utilizing the T-cord injuries	• ,

2-2-EL9-2 Robotic rehabilitation for spinal cord injury applying exoskeleton G-Univ. Hosp. 'Bergmannsheil', Ruhr-Unive. Bochum, Germany...S1801 $15:50 \sim 16:50$ **Expert seminar** Moderator H. Nagashima 2-2-ES Application of lumbar-type wearable cyborg to improve locomotor functions of the elderly 2nd Day October 20 Room 3 $8:00 \sim 9:00$ Instructional lecture 10 Moderator K. Chiba 2-3-EL10 Visual presentations for researchers $9:15 \sim 10:15$ Instructional lecture 11 Moderators H. Nakamura, H. Murakami 2-3-EL11-1 Looking back on 10 years of adult spinal deformity surgical treatment: How to prevent complication Yukihiro Matsuyama, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine... \$1803 Diagnosis and treatment for scoliosis in young patients 2-3-EL11-2 $10:30 \sim 11:50$ Moderators M. Matsubara, K. Yamamoto Symposium 15 Present and future of hip prosthesis Materials of acetabular liner in total hip arthroplasty 2-3-S15-1 Takeyuki Tanaka, et al., Orthop. Surg., Sensory and Motor System Medicine, Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo…S1804 2-3-S15-2 Materials of femoral head in articulating surfaces: Possibility of ceramicized metal, a metal material with ceramic surface 2-3-S15-3 Custom-made acetabular implants in total hip arthroplasty: Present and future Graduate School of Medical Sciences, Kanazawa Univ....S1805 2-3-S15-4 Cementless custom-made femoral component: Present and future "Takashi Sakai, et al., Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine" S1805 2-3-S15-5 Antimicrobial total hip prosthesis ··· Shunsuke Kawano, et al., Research Center of Arthroplasty, Faculty of Medicine, Saga Univ. ··· S1806 $12:10 \sim 13:20$ Luncheon seminar 11 Moderator M. Koda 2-3-LS11 Using a innovative UNIOS PL spacer enhancing bone union considering oriented collagen/ apatite microstructure without autologous bone graft Yukihiro Matsuyama, et al., Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine... \$1807 2nd Day October 20 Room 4 $8:00 \sim 9:00$ **Instructional lecture 12** Moderators S. Konno, H. Haro 2-4-EL12-1 Discogenic low back pain

...... Seiji Ohtori, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ... S1808

2-4-EL12-2 Intervertebral disc degeneration phenotypes and spinal cord crosstalk in acute and chronic discogenic pain and potential anti-inflammatory treatment targets $9:15 \sim 10:35$ Symposium 16 Moderators J. Takahashi, T. Moro New AI technology in orthopaedic surgery 2-4-S16-1 New screening AI to diagnose osteoporosis with plain chest radiographs 2-4-S16-2 The innovation of osteoporosis treatment: Development and social impact of AI medical devices for bone analysis from chest radiographs Yoichi Sato, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. · · S1809 2-4-S16-3 AI-assisted diagnostic system for osteoporosis using the X-ray images Graduate School of Medicine, The Univ. of Tokyo...S1810 2-4-S16-4 Measurement of bone mineral density of the proximal femur from hip X-rays Graduate School of Medicine, Osaka Univ.···S1810 2-4-S16-5 Detection of sacral fractures by artificial intelligence learned with XP labeled based on CT findings ······ Naoya Inagaki, et al., Dept. of Orthop. Surg., The Kashiwa Hosp. of the Jikei Univ. School of Medicine...S1811 2-4-S16-6 Extracting registry entry items from spinal surgery records using large-scale language models and few-shot learning Satoshi Maki, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ... \$1811 $10:50 \sim 11:50$ Instructional lecture 13 Moderators H. Akiyama, M. Takao 2-4-EL13-1 Autologous concentrated bone marrow injection for idiopathic osteonecrosis of the femoral head: From its birth to the approval as advanced medical care B in Japan 2-4-EL13-2 Stem cell implantation for the osteonecrosis of femoral head $12:10 \sim 13:20$ Luncheon seminar 12 Moderator H. Taneichi 2-4-LS12 New findings in pharmacological effects of PTH ····· Tadahiro Iimura, Faculty of Dental Medicine, Hokkaido Univ. S1813 $13:30 \sim 14:50$ Symposium 17 Moderators H. Ozawa, G. Inoue Scientific reseach on sacroiliac joint pain 2-4-S17-1 The concept of Sacroiliac-spine syndrome based on clinical data Eiichi Murakami, et al., Japan Sacroiliac Joint and Low Back Pain Center, JCHO Sendai Hosp.···S1814 2-4-S17-2 Functions and disorders of the sacroiliac joints from the viewpoint of gross anatomy and histological structure 2-4-S17-3 MRI findings of athletes with sacroiliac joint pain Pathology of sacroiliac joint disorder by SPECT/CT and trial of new operative treatment 2-4-S17-4 ····· Hiroaki Koga, Dept. of Orthop. Surg., Nanpuh Hosp. ··· S1815

2-4-S17-5	Relationship between hip joint and sacroiliac joint: A literature review		
2-4-S17-6	Does hip-sacro iliac joint-spine syndrome exist?		
15:00 ~ 1 Motion	6:20 Symposium 18 Moderators H. Taneichi, K. Nakanishi analysis for adult spine deformity and drop head syndrome		
2-4-S18-1	Gait analysis of adult spinal deformity patients		
2-4-S18-2	Three-dimensional gait analysis in patients with adult spinal deformity: Correlations between gait parameters and spino-pelvic parameters/patient reported outcome measures		
2-4-S18-3	Pathophysiology and clinical evaluation of degenerative lumbar kyphoscoliosis using gait motion analysis		
2-4-S18-4	Three-dimensional gait analysis synchronized with electromyography during prolonged walking: Towards understanding pathology of adult spinal deformity and dropped head syndrome ······· Tomoyuki Asada, et al., Dept. of Orthop. Surg., Univ. of Tsukuba···S1818		
2-4-S18-5	head syndrome ·········· <i>Tomoyuki Asada, et al.</i> , Dept. of Orthop. Surg., Univ. of Tsukuba···S1818 Gait pattern of patients with dropped head syndrome and efficacy of SHAiR program ····································		
	2nd Day October 20 Room 5		

Art	Artificial joints: Images lower extremity		
2-5-1	Is the intraoperative soft tissue assessment using a robotic system associated with intraoperative knee rotational kinematics?: A study using data of bi-cruciate stabilized TKA		
	Tokushima Univ. Graduate School…S1820		
2-5-2	Intraoperative pelvic movement in total hip arthroplasty in a lateral decubitus position using		
	AR- and CT-based navigation system		
	····· Yohei Naito, et al., Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer,		
	Mie Univ. Graduate School of Medicine…S1820		
2-5-3	The relationship between spinopelvic shape and parameter in total hip arthroplasty		
	······Yuta Matsuki, et al., Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine···S1821		
2-5-4	Impact of kinematics of total knee arthroplasty using navigation to postoperative clinical results		
	····· Masahiro Hasegawa, et al., Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for		
	Cancer, Mie Univ. Graduate School of Medicine…S1821		
2-5-5	Relationship between lower limb varus alignment and gait parameters after total knee arthroplasty		
2-5-6	Computer simulation of total knee arthroplasty for varus knee with severe lateral femoral bowing		
	···· Shinichiro Nakamura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ.···S1822		
2-5-7	Changes in talus alignment replaced by combined total ankle arthroplasty with artificial		
	talus (cTAA) ··· Rintaro Niki, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine ··· S1823		

Moderators K. Goto, T. Matsumoto

 $8:00 \sim 9:00$ Free papers

	~ 10:30 Symposium 19 slational research: acceleration with industry-aca	Moderators Y. Uchio, S. Orita demia collaboration and startup
2-5-S19-1	•	
2-5-S19-2	Development and social implementation of Qolo v posture transfer and standing mobility based on	
2-5-S19-3		iters
2-5-S19-4	1 11	
2-5-S19-5		the abdominal trunk muscles
2-5-S19-6	Titanium screws coated with a fibroblast growth f	actor-2–calcium phosphate composite layer
	~ 12:00 Symposium 20 ng edge of biomaterials for orthopaedic surgery	Moderators A. Sudo, A. Myoui
2-5-S20-1	spine surgery ······ Hiroshi Kumagai,	$\it et~al.$, Dept. of Orthop. Surg., Ichihara Hosp. \cdots S1827
2-5-S20-2	A quantitative analysis using computed tomogra	
2-5-S20-3	plasma technology	
2-5-S20-4	Clinical application and future perspective of bioac	g., Graduate School of Medicine, Osaka Univ.···S1828 ctive titanium Shunsuke Fujibayashi, et al., Yoshikawa Hosp.···S1828
2-5-S20-5	Development of regenerative medicine for muscu alginate gel · · · · · · · Tom	loskeletal organs using high-puritied
12:10	~ 13:20 Luncheon seminar 13	Moderator T. Ozaki
2-5-LS13		ional porous structure in na, Dept. of Orthop. Surg., Univ. of Tsukuba…S1830
	~ 14:30 Free papers icial joints: Lower extremity	Moderators S. Kawano, T. Manmoto
2-5-8	Involvement of ferroptosis in inflammatory osteolysis Faculty of Medicine and 0	associated with implant loosening Takuya Ogawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.···S1831
2-5-9	Oxidation index and oxidative induction time for anti- polyethylene retrieved <i>in vivo</i> ···············Shin Dept. of Multimodality Therapy for Ca	

2-5-10	positions u	sing transcra	nial electrical	s during total hip motor evoked p	otential monit	oring	J
	•••••						Sports Medicine, and Dental Univ.···S183
2-5-11	Does stem a			as impingement			
	A cadaveri	c study ·····	Yasuaki Tama	ki, et al., Dept. o	of Orthop., Ins	titute of Bio	medical Sciences,
					Toku	shima Univ.	Graduate School…S183
2-5-12				ignment and me			
0.5.40		_			-		Red Cross Hosp.···S183
2-5-13				motive syndrom			tients:
			-	n total clinical de		_	of Miyazaki HospS183
2-5-14			-	nritis effective in			
2 0 11				ore and after sur			idionic.,
							chool of Medicine…S183
15:10	~ 16:30	Symposium	21		N	Inderators	N. Iwasaki, K. Sato
				n baseball elbo		ioderators	11. Iwasani, 11. Sato
2-5-S21-5 2-5-S21-5 2-5-S21-5 2-5-S21-5	elbow Biomech tunnels	anical compa a methods of a methods of a methods of a centa Inagaki as of focused a of the elbow condral autogro ochondral au topics in trea like cartilage	e leaguers" arison of stabilulnar collatera , et al., Dept. shock wave to joint in basel Yusuke Iu aft transplant tograft transpl Masahin tments for car e repair	Nation lity and strength al ligament record of Orthop. Surgatherapy and PRP chall players pahori, et al., Spontation for osteochlantation augment of Maruyama, et tilage lesions of	akeshi Ogawa, al Hosp. Orga between sutu instruction, Graduate Sclutherapy for ultimates Medicine at all, Dept. of Cithe elbow: Air	et al., Dept. nization Mit re anchor fix nool of Medi nar collatera and Joint Ce ans of the ell elet-rich fibri orthop. Surg ming for ach	of Orthop. Surg., o Medical CenterS183 xation and bone scine, Chiba UnivS183 al ligament nter, Asahi HospS183 bow: The effect n in rabbits ., Yamagata UnivS183
			2nd Day	October 20	Room 6		
8:00 ~	~ 9:00 F1	ree papers			M	oderators	Y. Mikami, S. Inami
Moti	on analysis:	Spinal align	ment				
2-6-1	motion in pa	atients with c	ompressive ce	ervical myelopat	hy		perative range of
2-6-2	CD1 C 11 1			Orthop. Surg., I			
		eneration and	l muscle activ	ity affect the dyn	namic cervical	kyphosis du	

2-6-4	The relation between spine alignment and scapula position by plain radiograph examination
2-6-5	The relationship between spinal alignment and activity of paravertebral muscle during gait in patients with adult spinal deformity
2-6-6	
2-6-7	How do the kinematic characteristics of the hip joint change in patients with spinal kyphosis after corrective spinal fusion surgery?: A study using gait analysis with a three-dimensional motion analyser
9:15	~ 10:15 Free papers Tendon and ligament: Pathology Moderators S. Ozeki, A. Nimura
2-6-8	PI3K/Akt signaling stimulates Scx positive cells migration and differentiation
2-6-9	Sex differences in wrist torque in patients with lateral epicondylitis of the humerus
2-6-10	Establishment of tendon sheath-specific reporter mice
2-6-11	Comprehensive genetic analysis of mouse intrasynovial tendons for sex hormone deficiency and aging ···································
2-6-12	Characteristics of ultrasonography and MRI findings before the development of jumper's knee
2-6-13	Establishment of a chronic massive rotator cuff tear model using pigs
2-6-14	Relationship between Glutaminase 1 and Stump classification in rotator cuff tears Tatsuo Kato, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine \$1845
10:30	0 ~ 11 : 30 Free papers Tendon and ligament: Spine Moderators N. Kawahara, K. Kanzaki
2-6-15	Regulation of angiogenetic factor by DNA methylation array in patients with ossification of the spinal ligament ········ Yuya Chosei, et al., Dept. of Orthop. Surg., Shiga Univ. of Medical Science ··· S1846
2-6-16	Participation of DNA methylation in pathogenesis with ossification of the posterior longitudinal ligament in cervical spine
2-6-17	
2-6-18	Association of dyslipidemia with the development of symptomatic ossification of the posterior longitudinal ligament ····· Shotaro Fukada, et al., Spine Center, Hakodate Central General Hosp.···S1847
2-6-19	Potential involvement of oxidative stress in ligamentum flavum hypertrophy
2-6-20	The development of Achilles and plantar tendon ossification is associated with ossification of the posterior longitudinal ligament of the spine ······· <i>Tsutomu Endo, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine Hokkaido Univ ··· S1848

2-6-21 The growth pattern of ossification of the posterior longitudinal ligament after cervical posterior decompression and fusion ····· Jun Hashimoto, et al., Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ. ... \$1849 $12:10 \sim 13:20$ Luncheon seminar 14 Moderator K. Sairyo Aging and chronic low back pain · · · · · · Masayuki Miyagi, Dept. of Orthop. Surg., Kitasato Univ. · · S1850 2-6-LS14 $13:30 \sim 14:30$ Free papers Intervertebral disc: Analysis Moderators K. Chiba, M. Doita 2-6-22 Paracrine regulation by hedgehog in the nucleus pulposus and articular cartilage Graduate School of Medicine and Frontier Biosciences, Osaka Univ. ... S1851 2-6-23 Comparison of selective inhibition of the mTOR signaling pathway in intervertebral disc degeneration by RNA interference and CRISPR-Cas9 systems Masao Ryu, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine... \$1851 2 - 6 - 24Selective RNA interference of intracellular mTOR signaling is protective against intervertebral disc degeneration in a rat tail temporary static compression model in vivo ······ Naotoshi Kumagai, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ··· S1852 2 - 6 - 25Transient receptor potential vanilloid 4 activation promotes autophagy and extracellular matrix synthesis in rat intervertebral disc cells ······Kohei Kuroshima, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S1852 2-6-26 Transient receptor potential vanilloid 4 (TRPV4) knockdown suppresses autophagy and extracellular matrix synthesis in rat intervertebral disc cells 2-6-27 Association between lumbar disc bulge and clinical outcomes for lumbar spinal stenosis patients Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...\$1853 2-6-28 Investigation of the natural resorption factor of lumbar disc herniation ·····Shoji Kojima, et al., Dept. of Orthop. Surg., Aichi Medical Univ.··S1854 $14:40 \sim 15:45$ Free papers Moderators T. Aizawa, K. Nishida Intervertebral disc regeneration: Culture 2-6-29 Identification of potential compounds that can mitigate the adverse effects of mitochondrial reactive oxygen species on human nucleus pulposus cells 2-6-30 Correlation analysis between expression of transcription factors PITX1 and FOXQ1 and age-related degeneration in nucleus pulposus cell phenotype Shota Ogasawara, et al., Dept. of Orthop. Surg., Surgical Science, Tokai Univ.... \$1855 2 - 6 - 31Functional analysis of integrins in enhancing Type II collagen production in human medullary nucleus progenitor cells 2-6-32 Effect of hyaluronic acid in mitigating cytotoxicity by DMSO after thawing of human nucleus pulposus cells ······ Daiki Munesada, et al., Dept. of Orthop. Surg., Surgical Science, Tokai Univ. ·· S1856 Bag-1 protects nucleus pulposus cells from oxidative stress by interacting with HSP70 2-6-33

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2-6-35	Regenerative therapy to treat intervertebral disc disorders using the bone marrow aspirate concentrate combined with a bioabsorbable biomaterial				
	•••••		e Ukeba, et al., Dept. of Orthop. Surg.,		
2-6-26	Nuclaia acid targets for		te School of Medicine, Hokkaido Univ.···S1858		
2-6-36		regeneration of the intervertebral dis rived mesenchymal stem cell transp			
			Ohnishi, et al., Dept. of Orthop. Surg.,		
		Faculty of Medicine and Graduat	e School of Medicine, Hokkaido Univ.···S1858		
		2nd Day October 20 De	2007		
		2nd Day October 20 Ro	John 7		
8:00	~ 9:00 Free papers	Osteoarthritis: Basic research	Moderators T. Sasho, M. Ishijima		
2-7-1			nondral unit in surgical osteoarthritis ., Dept. of Orthop. Surg., Tottori Univ.···S1859		
2-7-2		e (IKK) in meniscus degeneration ar			
			a Hirose, et al., Dept. of Orthop. Surg.,		
		Clinical Medicine, Graduate Scho	ool of Medical Sciences, Kyushu Univ.···S1859		
2-7-3		ession in joint degenerative diseases			
2-7-4		rf1 during osteophyte formation	Surg., Shiga Univ. of Medical Science…S1860		
2.1			me Univ. Graduate School of Medicine…S1860		
2-7-5		complex of the glenohumeral joint is			
	arthropathy progression		iro Ijuin, et al., Dept. of Orthop. Surg.,		
2-7-6	The activation of RMP sig		and Dental Sciences, Kagoshima Univ.···S1861		
210	The activation of BMP signaling in a novel animal model of shoulder cuff tear arthropathy				
			and Dental Sciences, Kagoshima Univ.···S1861		
2-7-7		nmatory compounds based on Omu			
9:15		Sno Inoue, et ai.,	Dept. of of thop. ourg., Madado Oliv. 01002		
	~ 10:15 Free papers		Moderators T. Ishii, T. Matsumura		
2-7-8	$\sim 10:15$ Free papers	s Fracture onal prognosis prediction model for p	Moderators T. Ishii, T. Matsumura		
	~ 10:15 Free papers Development of a function fractures using machine	s Fracture onal prognosis prediction model for particle learning	Moderators T. Ishii, T. Matsumura		
	~ 10:15 Free papers Development of a function fractures using machin	onal prognosis prediction model for part al., Dept. of Medical Eng., Graduate evaluation of vertebral fractures: Rep	Moderators T. Ishii, T. Matsumura patients with proximal femur		
2-7-8	~ 10:15 Free papers Development of a function fractures using machin Kyohei Nozawa, et AI-assisted quantitative et Shoutaro A Incidence and location of	onal prognosis prediction model for part learning at al., Dept. of Medical Eng., Graduat evaluation of vertebral fractures: Rep Arakawa, et al., Dept. of Orthop. Surf osteochondral lesion of the talus as	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae g., The Jikei Univ. School of Medicine···S1863		
2-7-8	~ 10:15 Free papers Development of a function fractures using machin Kyohei Nozawa, et al. assisted quantitative et Shoutaro at Incidence and location of evaluated by magnetic at the state of the	onal prognosis prediction model for part elearning at al., Dept. of Medical Eng., Graduat evaluation of vertebral fractures: Rep Arakawa, et al., Dept. of Orthop. Surf osteochondral lesion of the talus as resonance imaging	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae g., The Jikei Univ. School of Medicine···S1863 prociated with ankle fractures		
2-7-8 2-7-9 2-7-10	~ 10:15 Free papers Development of a function fractures using machin Kyohei Nozawa, et al. assisted quantitative et Shoutaro at Incidence and location of evaluated by magnetic in	onal prognosis prediction model for part al., Dept. of Medical Eng., Graduat evaluation of vertebral fractures: Rep Arakawa, et al., Dept. of Orthop. Surf osteochondral lesion of the talus as resonance imaging ••• Futoshi Morio, et al., Dept. of Orth	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae gg., The Jikei Univ. School of Medicine···S1863 psociated with ankle fractures top. Surg., Hyogo College of Medicine···S1864		
2-7-8	~ 10:15 Free papers Development of a function fractures using machin	onal prognosis prediction model for pare learning et al., Dept. of Medical Eng., Graduat evaluation of vertebral fractures: Rep Arakawa, et al., Dept. of Orthop. Surf osteochondral lesion of the talus as resonance imaging Futoshi Morio, et al., Dept. of Orth study by a magnetic resonance imag	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae gg., The Jikei Univ. School of Medicine···S1863 psociated with ankle fractures top. Surg., Hyogo College of Medicine···S1864		
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2-7-8 2-7-9 2-7-10	~ 10:15 Free papers Development of a function fractures using machin	onal prognosis prediction model for page learning at al., Dept. of Medical Eng., Graduat evaluation of vertebral fractures: Rep Arakawa, et al., Dept. of Orthop. Surf osteochondral lesion of the talus as resonance imaging Futoshi Morio, et al., Dept. of Orth study by a magnetic resonance image teoporotic vertebral fracture byuki Kusukawa, et al., Dept. of Orth sity with periarticular Hounsfield unit	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae gg., The Jikei Univ. School of Medicine···S1863 processociated with ankle fractures top. Surg., Hyogo College of Medicine···S1864 ging at 3-month in patients with top. Surg., Hyogo College of Medicine···S1864 git of wrist and fracture type in patients		
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2-7-8 2-7-9 2-7-10 2-7-11	Development of a function fractures using machin	onal prognosis prediction model for pare learning et al., Dept. of Medical Eng., Graduate evaluation of vertebral fractures: Rep Arakawa, et al., Dept. of Orthop. Sure of osteochondral lesion of the talus as resonance imaging Futoshi Morio, et al., Dept. of Orth study by a magnetic resonance image teoporotic vertebral fracture oyuki Kusukawa, et al., Dept. of Orth sity with periarticular Hounsfield unitares Tomonori Kinoshita, et al. sons of the position of plate placement.	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae gg., The Jikei Univ. School of Medicine···S1863 psociated with ankle fractures top. Surg., Hyogo College of Medicine···S1864 ging at 3-month in patients with top. Surg., Hyogo College of Medicine···S1864 at of wrist and fracture type in patients delt., Dept. of Orthop. Surg., Nihon Univ.···S1865 at for medial tibial plateau fractures		
2-7-8 2-7-9 2-7-10 2-7-11 2-7-12	Development of a function fractures using machin	onal prognosis prediction model for page learning at al., Dept. of Medical Eng., Graduate evaluation of vertebral fractures: Reparakawa, et al., Dept. of Orthop. Sure of osteochondral lesion of the talus as resonance imaging Futoshi Morio, et al., Dept. of Orthostudy by a magnetic resonance image teoporotic vertebral fracture oyuki Kusukawa, et al., Dept. of Orthosity with periarticular Hounsfield unitares Tomonori Kinoshita, et al.	Moderators T. Ishii, T. Matsumura patients with proximal femur te School of Sci. and Eng., Chiba Univ.···S1863 producibility study with 1753 vertebrae gg., The Jikei Univ. School of Medicine···S1863 psociated with ankle fractures top. Surg., Hyogo College of Medicine···S1864 ging at 3-month in patients with top. Surg., Hyogo College of Medicine···S1864 at of wrist and fracture type in patients delt., Dept. of Orthop. Surg., Nihon Univ.···S1865 at for medial tibial plateau fractures		

2-7-14 The impact of non-thermal atmospheric pressure gas discharge plasma on healing of bone fracture delayed union model · · · · · · · Kosuke Saito, et al., Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine...S1866 $10:30 \sim 11:30$ Free papers Regeneration and treatments Moderators J. Toguchida, N. Fujita Bone metabolism environment in rat femoral critical sized bone model using Masquelet technique 2-7-15 ······ Masao Suzuki, et al., Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp. ··· S1867 2 - 7 - 16Masquelet technique using a mouse's femur critical-sized bone defect model: Effects of different fixation methods and addition of basic fibroblast growth factor on induced membrane ······ Tatsuru Sonobe, et al., Dept. of Orthop. Surg., Fukushima Medical Univ. ··· S1867 2-7-17 Masquelet technique using a mouse's femur critical-sized bone defect model: Differences in macrophage expression in induced membranes by fixation method 2-7-18 Development of bone reconstruction using human iPS cell-derived expandable limb-bud-like mesenchymal (ExpLBM) cells ··· Kohei Sato, et al., Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ... \$1868 2-7-19 Effects of BMP-2 on femoral osteogenesis in rats ··· Ippei Yamauchi, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. · · S1869 2-7-20 Abaloparatide promotes bone repair of vertebral defects in ovariectomized rats by increasing bone formation ······ Akito Makino, et al., Pharmacology Research Dept., Teijin Pharma Limited ··· S1869 2-7-21 Effect of romosozumab administration on bone fusion in rat OVX model with posterolateral lumbar fusion $12:10 \sim 13:20$ Moderator H. Chikuda Luncheon seminar 15 2-7-LS15 Involvement of neuropathic pain in patients with degenerative cervical myelopathy Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo...S1871 $13:30 \sim 14:30$ Moderators A. Sakai, H. Takahashi Free papers Osteoporosis 2-7-22 Novel anti-nuclear factor-kappa B peptide derived from nuclear acidic protein attenuates ovariectomy-induced osteoporosis in mice 2 - 7 - 23Therapeutic potentials of a novel bone macrophage-derived molecular protein in in experimental post-menopausal osteoporosis ······ Junki Shiota, et al., Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. · · · S1872 2 - 7 - 24Exploring the regulatory role of osteal macrophage on bone remodeling: Focus on Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1873 2-7-25 Not extracellular AGEs but intracellular induce osteoblast apoptosis via endoplasmic stress Ryusuke Suzuki, et al., Dept. of Orthop. Surg., The Jikei Univ. School of Medicine... \$1873 2 - 7 - 26Effects of etelcalcetide and teriparatide on the bone microstructure and bone strength in the adenine-induced chronic kidney disease model rats 2-7-27 Involvement of cellular senescence in bone loss after discontinuation of PTH administration

2-7-28	Possible drug withdrawal in patients with	long-term use of oral bisphosphonates et al., Dept. of Rehabilitation Medicine, Akita Univ. HospS1875
14:40	~ 15:45 Free papers Pathology	Moderators H. Murakami, T. Miyamoto
2-7-29		ng factor ···· Yu Yamashita, et al., Dept. of Cell Signaling., ical and Dental Sciences, Tokyo Medical and Dental Univ.··S1876
2-7-30	Tmem161a is an important regulator for MAPK pathway ······	bone formation and bone strength through P38
2-7-31	Metallothionein 3 reduces the intracellul osteoclast survival and differentiation	ar Zinc ²⁺ level and regulates the NRF2 pathway, affecting
2-7-32		dothelial cells unveils a distinct capillary subtype in Takahito Iga, et al., Dept. of Orthop. Surg., Keio Univ S1877
2-7-33	differentiation in vitro and in vivo · · · · ·	opeptide like protein as the inhibitor of osteoclast
2-7-34	Influence of melatonin on clock gene reg	ulation and bone union in diabetic mice Orthop. Surg., Graduate School of Medicine, Kyoto Univ.···S1878
2-7-35	transporter 1 (Glut 1) inducing upregul	nduces osteoblastic activity by activating glucose ation of energy metabolism in osteoblasts and Orthop. Surg., St. Marianna Univ. School of Medicine…S1879
2-7-36	Novel osteoclast subset maintains the "co	
	~ 16:40 Free papers	Moderators T. Hashimoto, H. Tohyama
	~ 16:40 Free papers don and ligament: Regeneration and tre Retinoic acid receptor agonist inhibits ec	Moderators T. Hashimoto, H. Tohyama eatments topic ossification and promotes Achilles tendon repair Yimiti Dilimulati, et al., Dept. of Orthop. Surg.,
Tend	c 16:40 Free papers don and ligament: Regeneration and tro Retinoic acid receptor agonist inhibits ec Graduate Sc Effect of systemic administration of gran enthesis-related progenitor in a rat rota	Moderators T. Hashimoto, H. Tohyama eatments topic ossification and promotes Achilles tendon repair
Tend 2-7-37	Retinoic acid receptor agonist inhibits economic acid acid receptor agonist inhibits economic acid receptor acid rec	Moderators T. Hashimoto, H. Tohyama eatments topic ossification and promotes Achilles tendon repair
2-7-37 2-7-38	Graduate So Effect of systemic administration of gran enthesis-related progenitor in a rat rotaShuntaro Tanimura, et al., Dept. of Histological evaluation of tendon-to-bone transgenic ratYuko Fukuma, et al., Dept. of The effect of self-assembling peptide hyd in rabbit	Moderators T. Hashimoto, H. Tohyama eatments topic ossification and promotes Achilles tendon repair
2-7-37 2-7-38 2-7-39	Retinoic acid receptor agonist inhibits economic acid acid acid acid acid acid acid ac	Moderators T. Hashimoto, H. Tohyama eatments topic ossification and promotes Achilles tendon repair
2-7-37 2-7-38 2-7-39 2-7-40	Caracteristics of tendon-to-bone transgenic rat	Moderators T. Hashimoto, H. Tohyama eatments topic ossification and promotes Achilles tendon repair

2nd Day October 20 Room 8

	$\sim 9:00$ Free papers lignant soft tissue tumors: Treatments	Moderators J. Nishida, H. Kawano		
2-8-1	Antitumor effect and neurotoxicity of ethanol adjuvant ther tissue sarcoma			
2-8-2	Targeting INI1-AURKA pathway to induce antitumor activi	ty against EPS		
2-8-3	New treatment of rhabdomyosarcoma targeting the process **Takuto Itano, et al., Dept. of Orthop. Surg., Science of I	Functional Recovery and Reconstruction,		
2-8-4	Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S1884 Impact of catecholamine synthesizing pathway inhibitor in cancer stem-like cells in malignant peripheral nerve sheath tumors and potential as chemotherapy			
	Science of Functional Recovery	Katayama, et al., Dept. of Orthop. Surg., and Reconstruction, Faculty of Medicine, Pharmaceutical Sciences, Okayama Univ.···S1884		
2-8-5	Development of combination therapy targeting both sarcor for soft-tissue sarcoma ····································	ma cells and sarcoma microenvironment		
2-8-6	Elucidation of the mechanism of action of BET inhibitor in synovial sarcoma			
2-8-7				
9:15	$\sim 10:15$ Free papers Metastatic tumor	Moderators H. Sugiura, K. Honoki		
2-8-8	Comparison of amputation versus limb salvage surgery for study of SEER database ····································			
2-8-9	Preoperative nutritional status is the factor for the predict and postoperative chemotherapy ····································			
2-8-10	Comparison of abscopal effects of local therapies (radiatic for metastatic bone tumor in a mouse model Masafa Graduate Sch			
2-8-11	Survival impact of resection of the primary malignant bon metastasis at diagnosis	ne tumor of the extremities with distant		
2-8-12	A study of effectiveness of cryo-chemotherapy for bone m	netastasis of lung cancer		
2-8-13	Investigation of useful tumor markers that should be subsident when skeletal metastasis of unknown primary is suspected	mitted along with computed tomography ed at the initial visit		

2-8-14	The roles of PRRX1 as a malignant factor in malig	nant peripheral nerve sheath tumor ····Shota Takihira, et al., Dept. of Orthop. Surg.,
		ecovery and Reconstruction, Faculty of Medicine,
		ry, and Pharmaceutical Sciences, Okayama Univ.···S1890
	0 ~ 11:35 Free papers teosarcoma, soft tissue sarcoma	Moderators T. Torigoe, Y. Matsumoto
2-8-15	IL17 is required for tumorigenesis in AX cell-deriv	vad ostaosarcoma
2 0 10		Surg., Faculty of Life Sciences, Kumamoto Univ.···S1891
2-8-16	Role of tumor-associated macrophage-derived che	
		···· Rikito Tatsuno, et al., Dept. of Orthop. Surg.,
		te School of Medical Science, Univ. of Yamanashi…S1891
2-8-17	Role of SPRR1A in osteosarcoma cells	
		. Surg., Kobe Univ. Graduate School of Medicine…S1892
2-8-18	Modification of anti-CSF-1/CSF-1R inhibitor for ta	
		Tomohiro Fujiwara, et al., Dept. of Orthop. Surg.,
		covery and Reconstruction, Faculty of Medicine,
2-8-19		ry, and Pharmaceutical Sciences, Okayama Univ.··S1892
2-0-19	Effects of antihypertensive medication on the cell	Uchiyama, et al., Dept. of Musculoskeletal Surg.,
		r Cancer, Mie Univ. Graduate School of Medicine…S1893
2-8-20	Prognostic nutritional index predicts prognosis of	
		okohama City Univ. Graduate School of Medicine…S1893
2-8-21	The utility of clinical sequence by cancer genome	panel in the treatment of bone and soft
	tissue tumor ·····	······ Eiji Nakata, et al., Dept. of Orthop. Surg.,
	Science of Functional Re	covery and Reconstruction, Faculty of Medicine,
		ry, and Pharmaceutical Sciences, Okayama Univ.···S1894
2-8-22	Super methotrexate-resistance in osteosarcoma c	ells is linked to malignancy and expression of
	PI3K/AKT/mTOR and c-MYC	
	Yusure Aori, et al., Orthop. Surg., Gi	raduate School of Medicine, Univ. of the Ryukyus…S1894
13:30	$0 \sim 14:20$ Free papers Surgery: Extremity	2 Moderators D. Osada, T. Sunagawa
2-8-23	Relationship between placement position and intr	aoperative zero position acquisition in reverse
		noku, et al., Dept. of Orthop. Surg., Kitasato Univ.···S1895
2-8-24	Clinical effects of bioabsorbable scaffold on posto	
0.0.05		noku, et al., Dept. of Orthop. Surg., Kitasato Univ.···S1895
2-8-25	Fatty infiltration progression after rotator cuff rep	wair is accelerated by statin administration ***Kotaro Yamakado, et al., Fukui General Hosp.***S1896
2-8-26	Efficacy of simple mini-open rotator cuff repair in	
2 0 20	Efficacy of simple mini-open rotator currepair in	········Isao Takei, et al., Dept. of Orthop. Surg.,
		School of Medicine, Yokohama City Seibu Hosp.···S1896
2-8-27	Ideal position for bone tunnel in the augmentation	
- ·	Brace for acromioclavicular dislocation	
		et al., Dept. of Orthop. Surg., Komaki City Hosp.···S1897
2-8-28	Makeshift depth stop from an electric plug used f	
	·····Pradyumna Krishna Majumdo	ur, Dept. of Orthop. Surg., PGIMS, Rohtak, India…S1897

14:30	~ 15:05	Free papers	Surgery: Extremity 3		Moderators	M. Kataoka
2-8-29			nalunited distal radius fra 		Dept. of Orthop	o. Surg.,
2-8-30	Finite element analysis of phalangeal fracture fixation using Kirschner wires: Investigation of the relationship between insertion angle, wire diameter, and insertion point					
2-8-31	Medium- and long-term results of combination metatarsal proximal osteotomies for shortening					
2-8-32	osteoton	ny for osteonecro	esteotomy angle in corona esis of the femoral head			
	•••••		·····Shinich	iro Sakai, et al., Dept. o Ehime Univ. Gradua		
15:15	$5 \sim 15:50$	Free papers	Skeletal muscle	Moderators	N. Terada,	H. Horiuchi
2-8-33		uction ·····	to prepare decellularizedcience of Functional Reco	·· Shiro Fukuoka, et al., I	Dept. of Orthop n, Faculty of Me	o. Surg., edicine,
2-8-34	fibro-adi	pogenic progenit	oits fatty infiltration and moors browning in a rodent, Dept. of Orthop. Surg.,	model		
2-8-35	Stress-stra	ain relationship fo	or each hamstring muscle akao, et al., Graduate Sch	using the soft-embalme	ed Thiel cadave	r
2-8-36			e angle, skeletal muscle r ······Ikuko Takahash			n Clinic…S1901
			2nd Day October	20 Room 9		
8:00	~ 9:05	Free papers S	Spinal cord, others	Moderators	s H. Yamada	, S. Kaneko
2-9-1			nal cord: Focusing on lyn kai, et al., Dept. of Ortho		niv. School of M	edicine…S1902
2-9-2			3 cluster deletion inhibits Graduate School of Bio		Dept. of Orthop	o. Surg.,
2-9-3	A compar	ative study	IL-17 levels and ectopic b ung, et al., Dept. of Ortho			
2-9-4			ysis using resting state full opathy ··· Fumihiko Eto, o			
2-9-5	spinal co	rd injury followin	cation for predicting func ag inpatient rehabilitation et al., Dept. of Orthop. Su			
2-9-6	A study on	automatic genera	ation of neural tractographearning ···································	hy by MRI diffusion tens	sor imaging in l	lumbar

2-9-7 Establishment of nerve root region segmentation method in lumbar spine disease MRI diffusion tensor images using deep learning ······ Rira Masumoto, et al., Dept. of Medical Engineering, Faculty of Engineering, Chiba Univ. S1905 2-9-8 A study on speckle tracking development and dynamic analysis for the extraction of pulsation in the lumbar dural canalRyohei Kasai, et al., Dept. of Medical Eng., Graduate School of Sci. and Eng., Chiba Univ...S1905 $9:15 \sim 10:15$ Free papers Moderators A. Taniguchi, T. Takagi **Images:** Upper and lower extremity 2-9-9 Visualization of tendons of the hand on FRACTURE MRI Yukari Matsuzawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ... S1906 2-9-10 CT sagittal image evaluation for osteochondritis dissecans of the elbow correlates with clinical outcomes of arthroscopic debridement in adolescent baseball players Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1906 2-9-11 Virtual reality preoperative planning method for intramedullary nailing Developmental dysplasia of the hip with posterior wall deficiency concentrates great stress on the 2-9-12 acetabulum ···· Daisuke Suzuki, et al., Dept. of Health Sciences, Chitose Collage of Rehabilitation ··· S1907 2-9-13 Utility of percutaneous pelvic screw placement in fragility fractures of pelvis: Investigation using finite element analysis Satoshi Nakasone, et al., Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus... \$1908 2-9-14 Quantitative evaluation of anterior talofibular ligament footprint using 3DMRI Kenta Kono, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. S1908 2 - 9 - 15Quantitative evaluation and measurement reliability of the lateral ankle ligament footprint using 3DMRI Yuriko Yoshimoto, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ... S1909 $10:30 \sim 11:30$ Free papers Images: Spine Moderators D. Togawa, M. Takahata 2 - 9 - 16Novel evaluation for vertebral artery course using 3D MRI with CT-like bone contrast and MR angiography Takaki Inoue, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ... S1910 2 - 9 - 17Usefulness of FRACTURE MRI and MRA fusion imaging in preoperative planning for spinal fusion surgery ····· Kentaro Mataki, et al., Dept. of Orthop. Surg., Tokyo Medical Univ. Ibaraki Medical Center ··· S1910 2 - 9 - 18The relationship between neuropathic pain and functional connectivity after surgery in patients with cervical myelopathy · · · · · · · · Kento Inomata, et al., Dept. of Orthop. Surg., Univ. of Tsukuba · · · S1911 2-9-19 Measurement of postoperative vertebral rotation in early onset scoliosis utilizing quantitative evaluation using inverse trigonometric functions: A multicenter study 2-9-20 Fracture line congruency on CT-like MRI of 1.5 Tesla and CT images of acute lumbar spondylolysis · · · · · · Masaki Tatsumura, et al., Tsukuba Univ. Hosp. Mito Clinical Education and Training Center Dept. of Orthop. Surg., and Sports Medicine...S1912 2-9-21 Association between the bone marrow edema on MRI assessed quantitatively using contrast ratio and the rest period in lumbar spondylolysis patients ······Reo Asai, et al., Dept. of Orthop. Surg., Tokyo Medical Univ. Ibaraki Medical Center···S1912 2-9-22 Development of novel semi-quantitative evaluation method for cervical radiograph novel semi-quantitative evaluation method for cervical radiographJunichi Yamada, et al., Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1913 $13:30 \sim 14:30$ Free papers Imaging analysis: AI Moderators H. Oka, R. Nakahara 2-9-23 Development of screening method for carpal tunnel syndrome using video analysis Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ. ... S1914 2-9-24 Prediction of Cobb angle using deep learning algorithm with three-dimensional depth sensor considering the influence of garment in idiopathic scoliosis Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ... S1914 2-9-25 Prediction of cervical spondylosis classification using deep learning with convolutional neural network ······ Hiroyuki Tachi, et al., Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1915 2-9-26 Can ChatGPT pass the Japanese orthopaedic certification examination? Ryuto Tsuchiya, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ... S1915 2-9-27 Detection of medial epicondyle deformity of the humerus in adolescent baseball player using Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1916 2-9-28 Validation of segmentation of the common iliac vein in intraoperative endoscopic images to support oblique lateral interbody fusion for L5/S1 Kaori Yamamoto, et al., Dept. of Medical Engineering, Faculty of Engineering, Chiba Univ...S1916 2 - 9 - 29Investigation of the accuracy of 3D images of lumbosacral nerve roots created using artificial Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ... S1917 $14:40 \sim 15:30$ Free papers Joint diseases Moderators K. Hiraoka, N. Nishinaka 2 - 9 - 30Involvement of inflammasome activation in frozen shoulder ····· Masaki Takahashi, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine... S1918 2-9-31 Oxidative stress is involved in the development of idiopathic frozen shoulder 2 - 9 - 32MicroRNA-26a knockout mice suppress contractures in frozen shoulder models Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ... S1919 2-9-33 Evaluation of useful assessment for predicting of shoulder pain during throwing in baseball players ······ Shotaro Teruya, et al., Dept. of Orthop. Surg., Univ. of Tsukuba···S1919 2-9-34 Three-dimensional analysis of blood vessels and neural fibers in porcine meniscus using CUBIC protocols Chika Lee, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ...S1920 2-9-35 Analysis of femoral torsion in patients with recurrent patellar dislocation ······ Rika Shigemoto, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ··· S1920 $15:40 \sim 16:30$ Free papers RA: Others Moderators K. Takahashi, A. Nakajima 2-9-36 Anti-citrullinated osteopontin antibody enhances the binding of osteopontin to synovial cells and aggravates rheumatoid arthritisAkio Umemoto, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ...S1921

2-9-38	and osteoarthritis ···································		
2-9-36			
2-9-39	Bone strength of the metacarpal head in patients with rheumatoid arthritis and its related factors		
	····· Rika Kakutani, et al., Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine,		
	Niigata Univ. Graduate School of Medical and Dental Sciences…S1922		
2-9-40	Influence of exercise therapy to articular cartilage, in rheumatoid arthritis (RA) model rat		
	Kyoto Prefectural Univ. of Medicine…S1923		
2-9-41	Peptide-based vaccine targeting IL17A attenuates experimental spondyloarthritis in HLA-B27		
	transgenic rats ······ <i>Tetsuya Tomita, et al.</i> , Morinomiya Univ.···S1923		
	2nd Day October 20 Poster 1		
0 . 00	10.00 B / C ' W 1 / V C 1 '		
9:30	~ 10:00 Poster Sarcopenia Moderator Y. Sakai		
2-Po-1	Usefulness of sarcopenia index in assessing sarcopenia		
	Nippon Medical School, Graduate School of Medicine…S1924		
2-Po-2	Possible role of sclerostin in aging-associated skeletal muscle atrophy		
0.10.0			
2-Po-3	The effect of belt electrode-skeletal muscle electrical stimulation on the prevention of muscle		
	atrophy using arthritis model rats ····································		
2-Po-4	Graduate School of Medical Science, Kyoto Prefectural Univ. of MedicineS1925		
2 10 4	Decreased grip strength is associated with paraspinal muscular oxidative stress in human females with lumbar degenerative disease		
	Juntendo Univ. Graduate School of Medicine…S1925		
2-Po-5	Muscle activity related to the lumbar mobility for severe adult spinal deformity		
2-Po-6	A longitudinal study of the relationship between frailty and spinal alignment using the Japanese		
	version of the Cardiovascular Health Study criteria based on health screening study among		
	elderly residents ······ Shin Oe, et al., Dept. of Geriatric Musculoskeletal Health,		
	Hamamatsu Univ. School of Medicine…S1926		
10:10	$\sim 10:30$ Poster Motion analysis: Spinal alignment Moderator A. Minamide		
2-Po-7	Cervical sagittal parameters and cervical posterior spondylolisthesis		
2-Po-8	Cutoff values for spinal alignment by degree of locomotive syndrome		
2-Po-9	Status of sarcopenia in spinal alignment and abdominal circumference		
	······ Takashi Nagai, et al., Dept. of Rehabilitation Medicine, Showa Univ.···S1928		
2-Po-10	Relationship between lumbar spinal flexibility and cervical spinal balance during gait		

ProtectinD1 in synovial fluid enable to discriminate between rheumatoid arthritis

2-9-37

10:50	~ 11:20 Poster Images: Lower extremity	Moderator K. Watanabe
2-Po-11	Evaluation of acetabular coverage before and after curve hips: Finite element analysis and radar chart	ed periacetabular osteotomy in dysplastic
	······ Takahiro Igei, et al., Orthop. Surg., Graduate	School of Medicine, Univ. of the Ryukyus…S1929
2-Po-12	The feature of proximal femoral bone morphology with	developmental dysplasia of the hip
	Ни	deki Shozen, et al., Dept. of Orthop. Surg.,
		cal and Health Sciences, Hiroshima Univ.···S1929
2-Po-13	Acetabulum central line of the patients as pre-operative	
	······································	
2-Po-14	Evaluation of first ray instability in hallux valgus, hallux	
	analysis system and weight-bearing CT	
	Tadashi Kimura, et al., Dept. of Orthop.	Surg The likei Univ School of Medicine\$1930
2-Po-15	Quantitative assessment of the anterior talofibular ligam	_ ·
2 10 13	T2* values ························Yoshihiro Akatsuka, e	
0 D- 1C		
2-Po-16	CT evaluation of abnormal transverse talar alignment in	
	·······································	
	Dokk	yo Medical Univ. Saitama Medical Center…S1931
11:30	~ 11:50 Poster Surgery: Extremity	Moderator Y. Yoshii
2-Po-17	Identifying costal osteochondral junction by sonography	v: Cadaveric study
	······································	
		niv., Graduate School of Medical Sciences···S1932
2-Po-18	Visible area of the elbow joint by use of NanoScope	iiv., Graduate School of Wedical Sciences 51332
2 10 10		Cont. of Museule alveletal Spouts Medicine
	Sho Yamauchi, et al., D	
0 D 10		niv., Graduate School of Medical Sciences···S1932
2-Po-19	Imaging evaluation of arthroscopic cuff repair using bio	
	····· Genki Iwama, e	
2-Po-20	Safe zone for the approach to the retrograde nail fixation	n of tibiotalocalcaneal arthrodesis:
	An anatomical study of fresh frozen cadavers	
	·····Yukie Metoki, et	al., Dept. of Orthop. Surg., Kitasato UnivS1933
13:30	~ 14:00 Poster Spinal cord, others	Moderator S. Kawabata
2-Po-21	Immunological and reparative processes in Wallerian de	egeneration after spinal cord injury:
	Time course study focusing on specific neural tracts	
	·····Yohen	i Sodevama, et al., Dept. of Orthon, Surg.
		luate School of Medicine, Hokkaido Univ.···S1934
2-Po-22	GFR α 1 promotes sensory axon regeneration after spina	
2 10 22	······································	
0 D- 00		luate School of Medicine, Hokkaido Univ.···S1934
2-Po-23	Nerve root morphological and functional changes after	
	surgery: Preliminary study using ultrasound and elect	
0.10.01	·············Nobuaki Tadokoro, et al., Dept. of Orthop.	
2-Po-24	Morphology of the filum terminale in ultrasound images	
	····· Tomohiko Hasegawa, et al., Dept. of Orthop. Sur	
2-Po-25	Direct nerve stimulation motor evoked potential for pre	vention of postoperative motor deficits in
	resection of spinal intradural schwannoma	
	Go Yoshida, et al., Dept. of Orthon, Sur	rg., Hamamatsu Univ. School of Medicine…\$1936

2-Po-26	A study of metastatic spinal tumors in our hospital: Association between SINS and progression		
	of vertebral collapse ··················Yuki Konno, et al., Dept. of Orthop. Surg., Yamagata Univ.···S1936		

14:10 ~	~ 14:50 Poster	Spinal cord: Regenerative medicine	Moderator T. Tachibana
2-Po-27	cells for spinal co	venous administration of multilineage differentiatiord injury mice with multiple injury uda, et al., Dept. of Orthop. Surg., Hirosaki Univ. (
2-Po-28		on of mesenchymal stem cells into a staggered les	•
2-Po-29	•	ministration of GLP1 receptor agonists in spinal co <i>Nobuaki Hattori, et al.</i> , Dept. of Orthop. Surg., S	•
2-Po-30	compression my	ression surgery and erythropoietin combination o elopathy vatani, et al., Dept. of Orthop. Surg., Graduate Sch	
2-Po-31	analysis using in	e-derived mesenchymal stromal cell transplantation vivo imaging system i Takahashi, et al., Dept. of Orthop. and Rehabilita Div. of Medicine, Faculty of Medicine	,
2-Po-32	-	of immunoreceptor blockage for acute spinal coro	l injury in mice
2-Po-33	Neuronal regenera	ation by low adhesive scaffold collagen in rat spina	l cord injury
2-Po-34	•	nesenchymal stromal cell transplantation and treac 	and Rehabilitation Medicine,

2nd Day October 20 Poster 2

9:30~	10:00 Poster RA: Others	Moderator	T. Yasui
2-Po-35	Ginger-derived exosomes suppress arthritis · · · · · · · · Hiroki Kaneta, et al., Dep	pt. of Orthop. S	urg.,
	Graduate School of Biomedical and Health Science	es, Hiroshima U	JnivS1941
2-Po-36	Anti-PD-L1 antibody-induced inflammatory arthritis exacerbates joint pain by	promoting	
	neuronal apoptosis via synovial fibroblast-derived humoral factor A		
	······································	Surg., Showa U	JnivS1941
2-Po-37	Analysis of autophagy-related molecules in synovial macrophage subtypes of		
	rheumatoid arthritis ······················Hanqing Huang, et al., Dept. of Orthop. Su	rg., Yamagata U	JnivS1942
2-Po-38	Enhancement effect of IL-33 on cytokine production from cultured synovial m	nast cells by	
	aggregated IgG stimulation ··· Masahiko Yanagisawa, et al., Dept. of Orthop	. Surg., Nihon U	JnivS1942
2-Po-39	Localization of peroxisomal proliferator-activated receptors (PPARs) in synov	ial tissue in pati	ients
	with rheumatoid arthritis ········ Yuya Takakubo, et al., Dept. of Rehabilitat	ion, Yamagata U	JnivS1943
2-Po-40	(Withdrawn)		
10:10 ~	- 10: 40 Poster Osteoarthritis: Images M	oderator S. I	Mivakawa

2-Po-41 Three-dimensional tibial cortical bone thickness in patients with knee osteoarthritis and healthy elderly subjects, and the effect of lower limb alignment and the medial compartment inclination of the proximal tibia on cortical bone thickness

···· Keisuke Maeda, et al., Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine,
Niigata Univ. Graduate School of Medical and Dental Sciences···S1944

2-Po-42	Effects of the progression of varus deformity in knee osteoarthritis on the lower extremity muscles: A deep learning model-based study
	·····Kohei Kono, et al., Dept. of Bone and Joint Surg., Ehime Univ. Graduate School of Medicine···S1944
2-Po-43	Inclination angle of the proximal medial aspect of the tibia to the coronal plane
2-Po-44	Association between morphologic feature of the proximal tibia and bone marrow lesion with
	early knee osteoarthritis from Iwaki cohort study
0.70	Hikaru Ishibashi, et al., Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine S1945
2-Po-45	Relationship between intra-articular stress and Fear index in acetabular dysplastic hips
0 D 40	Graduate School of Biomedical and Health Sciences, Hiroshima Univ.···S1946
2-Po-46	Evaluate of the bone morphogenetic features of the anterosuperior of femoral proximal part
	using human bone model: Could the plain radiography be substitute for CT examination for
	evaluation cam deformity?
10 : 50 a	Tomohiro Mimura, et al., Dept. of Orthop. Surg., Shiga Univ. of Medical Science. S1946 ∼ 11: 20 Poster Osteoarthritis: Pathology Moderator N. Kaku
10 . 30	11 · 20 1 Oster Osteoai unitus. 1 autology Moderator N. Raku
2-Po-47	Effect of freeze-thawing of platelet rich plasma on macrophage polarization
2-Po-48	Identification of fibrocyte in synovial tissue of osteoarthritis patients and its involvement in OA
0.70.40	pathophysiology ··········· Maho Tsuchiya, et al., Dept. of Orthop. Surg., Kitasato Univ.···S1947
2-Po-49	Jietacin derivative inhibits TNF-a-mediated inflammatory cytokines production via suppression
	of the NF-κB pathway in synovial cells
0 D 50	
2-Po-50	Relationship between synovial mesenchymal stem cells and bone morphology in patients with
	different types of hip osteoarthritis
2-Po-51	Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ.···S1948
2-10-31	Regulation of DNA methylation alters in synovium and peripheral blood mononuclear cells in hip osteoarthritis
2-Po-52	Expression of matrix metalloproteinase-3 and connective tissue growth factor is elevated in
2 10 32	patients with cuff tear arthropathy ···· Ryo Tazawa, et al., Dept. of Orthop. Surg., Kitasato Univ.···S1949
11:30	~ 12:00 Poster Osteoarthritis: Epidemiology, pathology Moderator H. Wada
2-Po-53	FNIII14 has the potential to stimulate cellular senescence in chondrocytes
	······································
	Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine…S1950
2-Po-54	Expression and regulation of axon guidance gene in infrapatellar fad pad
2-Po-55	Increased mast cell maker expression in infrapatellar fat pad of knee osteoarthritis patients with
	high HbA1c value · · · · · · · · · · · · · · · · · · ·
2-Po-56	Increased NMUR1 expression in mast cells in the synovial membrane of obese
	osteoarthritis patients ·············Ayumi Tsukada, et al., Dept. of Orthop. Surg., Kitasato Univ.···S1951
2-Po-57	Relationship between knee osteoarthritis and health-related quality of life: A cross-sectional
	study using data from the Locomotor Health Examination: LOHAS study

2-Po-58	osteoarthritis: Th	lderlies is associated with severity and structural char e Bunkyo Health Study		1 11 . 01050	
13:30~		Osteoarthritis: Basic research		T. Watanabe	
2-Po-59		eoclast density during progression of knee osteoarthri		1. Watanase	
2-Po-60					
2-Po-61	The effect of postm	enopausal osteoporosis on subchondral osteoclasts of coyuki Wada, et al., Dept. of Orthop. Surg., Kochi Med	f knee osteoartl	nritis	
2-Po-62		steochondral units in rats with destabilization of media		tori Univ.···S1954	
2-Po-63		eptor antagonist on the attenuation of degeneration of	, Dept. of Ortho	op. Surg.,	
2-Po-64		-articular injection on DMM model mice 	in Integrated N	Medicine,	
14:10~	· 14 : 40 Poster	Osteoarthritis: Treatments	Moderator	H. Mutsuzaki	
2-Po-65	mechanical axis b ······Naosuke N	selection based on joint line convergence angle minir etween standing and supine positions after high tibial lagata, et al., Dept. of Orthop. Surg., Kobe Univ. Grad	osteotomy uate School of I	Medicine…S1956	
2-Po-66	Effect of plate position on tibial translation and posterior tibial slope after cyclic loading in medial open wedge high tibial osteotomy: a biomechanical study using porcine tibia				
2-Po-67	Effectiveness of bone grafting to the peg hole of the tibial component in cementless total knee arthroplasty ·············Sho Nojiri, et al., Dept. of Orthop. Surg., Fujita Health Univ.··S1957				
2-Po-68	shortened stem le	Investigation of fixation style by sagittal plane alignment in Zweymüller-type stem MIRFY with shortened stem length			
2-Po-69	Coracoclavicular lig	neya, et al., Dept. of Orthop. Surg., Graduate School of gament injury would cause acromicalavicular osteoart	hritis		
2-Po-70	Changes in the per-	Graduate School of Biomedical and Health Sciatalar-arthroplasty joint after total ankle arthroplasty are Maki, et al., Dept. of Orthop. Surg., St. Marianna U	ciences, Hiroshi combined with	ma Univ.···S1958 ceramic	
		2nd Day October 20 Poster 3			
9:30~	10:00 Poster	Artificial joints: Hip	Moderato	or S. Nagoya	
2-Po-71	=	ation of setting change of cup target placement for nav atraoperative pelvic tilt taken into account	vigation using A	AR	

······ Takeaki Yamamoto, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine···S1959

2-Po-72			r intraoperative acetabular cup fixation using lase to Hatakeyama, et al., Dept. of Orthop. Surg., Ke	
2-Po-73	Evaluation of	stem size and stem stabilit	y of total hip arthroplasty by patient-specific finite	e
0 D 74			Watanabe, et al., Dept. of Orthop. Surg., Univ. of	
2-Po-74	arthroplasty	in Dorr type C by finite ele		
0 D 75			ept. of Orthop. Surg., Kochi Medical School, Koch	
2-Po-75			emented stem influence the clinical results in pri	
	totai nip arti	nropiasty: ·····	····· Hiroakira Terakawa, et al., Dept. of Ortho Graduate School of Medicine, Chi	
2-Po-76	Cortical hymo	rtrophy in triple taper polis		Da Ulliv. ~ S1901
2 10 70			yoda, et al., Dept. of Orthop. Surg., Kansai Medi	cal Univ.···S1961
10:10~	· 10:40 Po	oster Muscle: Others	Moderator	Y. Takazawa
2-Po-77		evaluation of rotator cuff me r not in arthroscopic rotato	uscles using shear wave elastography predicts w	hether
			l., Dept. of Orthop. Surg., Juntendo Univ. Urayas	su Hosp\$1962
2-Po-78			muscle maintains the acromiohumeral distance	ы 1105р 01302
_ 10 .0			yuta Oishi, et al., Dept. of Orthop. Surg., Yamaga	ata Univ.···S1962
2-Po-79			nysical findings due to fatigue	
			Daisuke Ishii, et al., Dept. of Orthop. Surg., Kitasa	ato Univ.···S1963
2-Po-80			triangle and their relationship to thoracic outlet	
	syndrome in	Japanese · · · · · · Ta	shiya Nito, et al., Dept. of Orthop. Surg., Yamaga	ata Univ.···S1963
2-Po-81	Optimal temp	erature for ex-vivo perfusio	n of rat hindlimb	
	•••••		Gen Yokota, et al., Dept. of Ortho	p. Surg.,
		Graduate Sch	nool of Biomedical and Health Sciences, Hiroshin	na Univ.···S1964
2-Po-82	Effects of soft the soft tissu		metabolism and muscle metabolism by mouse m	odel of
	···Kenta Kiy	pomoto, et al., Dept. of Mus	culoskeletal Anti-aging Medicine, Sapporo Medic	cal Univ.···S1964
10:50~	11:20 Po	oster Images: Spine	Moderator	Y. Yukawa
2-Po-83	Evaluation of	cervico-thoracic spine bon	e density and trabecular structure using 3D trab	ecular
	structure me	easurement software in cer	vical spine disease	
			Dept. of Orthop. Surg., Kindai Univ. Faculty of M	
2-Po-84			c spinal motion during flexion and extension for	
	spinal defori		liosis ·······Nobuaki Takeura, et al., Dept. of	
0 D 05	5 1		of Medical Science, Kyoto Prefectural Univ. of M	
2-Po-85			idiopathic scoliosis between the amount of verte	bral
		tion in radiographs and ver	·tebrai rotation angle ····································	Outhon

2-Po-86	Postorior spin		of Medical Science, Kyoto Prefectural Univ. of Mus pedicle screws for thoracolumbar spinal injur	
2-10-00			predictive factor of the range of fixation	у.
	_		w Akabane, et al., Dept. of Orthop. Surg., Yamaga	ata UnivS1966
2-Po-87			ment method for thoracoabdominal movement d	
2 10 01			patterns in healthy subjects	115
			et al., Biometrics Research Laboratory, NEC Cor	poration…S1967
2-Po-88			ward flexion using single 2D image	
			war a nemen acting engre 22 mage	C Corp\$1067

11:30 ~	~ 12:00 Pos	ter Arti	ficial joints: Knee	Moderator	A. Kanemori
2-Po-89			medial osteophyte resection on fer		nee
			ative assessment by ROSA robotic		
0 D 00			era, et al., Dept. of Orthop. Surg., S		
2-Po-90			l rotational alignment after fixed-be		
2-Po-91			Tsutomu Maeda, et al., Dept. of ascending and descending in cruc		
2-10-91			Takahiro A		
	knee ai un opi	asty ·····		v. of Tokyo Hosp., The Univ. o	
2-Po-92	Postoperative 3	-dimensio	nal motion analysis of the mobile r		7 TOKYO 51303
2 10 02			., Div. of Orthop. Surg., Dept. of Re		ledicine.
		,.,,,		chool of Medical and Dental S	
2-Po-93	Evaluation of va	arus-valgu	s stability after total knee arthropl		
			······Hiroki Hijika		
2-Po-94			outcomes of porous tantalum fem		
	arthroplasty:	Comparis	on with conventional cementless fe	emoral component of the	
	same compan	y	·············Arata Watanabe, et al., I	Dept. of Orthop. Surg., Ichiha	ra HospS1970
13:30 ~	~ 14:00 Pos	ter Sarc	coma treatments	Moderator	T. Akiyama
2-Po-95	Osteosarcoma	natient-de	rived orthotopic xenograft models		
_ 10 00			kashi Higuchi, et al., Dept. of Orth		ss Hosp.···S1971
2-Po-96			osteosarcoma treatment using dox		
			s under hypoxic conditions	. 0	
			······Koki Y	Yoshioka, et al., Dept. of Ortho	p. Surg.,
			Graduate School of Biomedical		
2-Po-97			t of hypoxia-responsive doxorubici		
	•••••		·····Taisuke	Furuta, et al., Dept. of Ortho	p. Surg.,
			Graduate School of Biomedical	*	
2-Po-98			using NK cell activation receptor		
	•••••		·····Tomohiro		
				egenerative and Transplant M	
9 Do 00	In high page	o two atms o		chool of Medical and Dental S	
2-Po-99			nt, a novel devitalization method, u ····································		
				of Medical Sciences, Kanaza	
2-Po-100	Local treatmen	nt strateov	by combining virotherapy with or		
- 10 100			nanotubes ······ Tomohiko		
	12	_	Graduate School of Biomedical		
14:10 ~	~ 14:40 Pos	ter Saro	coma cell physiology	Moderator I	M. Kanamori
			2 7 0		
2-Po-101			acterization of a novel dedifferentia	ateu cnongrosarcoma cell line	<u>.</u>
	harboring an		ntation ····· <i>Makoto Emori, et al.</i> , Dept. of	Orthon Sura Connora Mad:	201 Univ\$1074
2-Po-102			SP cells isolated from doxorubicin		.ai UIIIv51974
2 1 U 1U2			Takahiro		n Surg
				ki Univ. Graduate School of N	
			1111 USa	m oniv. Oraquate scriool of N	1culcine 513/4

2-Po-103	Blue light emitting diode light induces apoptosis by increasing reactive oxygen species in bone
	and soft tissue sarcoma ······Shinji Kawaguchi, et al., Dept. of Orthop.,
	Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1975
2-Po-104	The expression of PVR and its clinicopathological significance in MPNST
	······Naoya Nakahashi, et al., Dept. of Orthop. Surg., Sapporo Medical Univ.···S1975
2-Po-105	Association between ADC values and size changes in desmoid tumors
	······ Masato Sugawara, et al., Dept. of Orthop. Surg., Yamagata Univ.···S1976
2-Po-106	Lovastatin induces novel cell death due to impaired mitochondria iron utilization specifically in
	osteosarcoma cells ·······Shingo Kishi, et al., Research Institute Nozaki Tokushukai···S1976

2nd Day October 20 Room 2

 $16:50 \sim 17:00$ Closing ceremony