

回	受賞当時の所属	氏名	論文名	雑誌名	巻号ページ (敬称略)
第1回	九州大学医学部整形外科	馬渡 正明	Expression of 92-kD type, collagenase/gelatinase(gelatinase B) in osteoarthritic cartilage and its induction in normal human articular cartilage by interleukin.(The Journal of Clinical Investigation)	The Journal of Clinical Investigation	92:179–185,1993
	大阪大学歯学部第一解剖学	岩本 容泰	Changes in parathyroid hormone receptors during chondrocyte cytodifferentiation.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	269:17245–17251,1994
第2回	大阪大学医学部整形外科	妻木 範行	Differential expression of an acidic domain in the amino-terminal propeptide of mouse pro- $\alpha_2(X1)$ collagen by complex alternative splicing.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	270:2372–2378,1995
	札幌医科大学整形外科	伊藤 和生	Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generated by alternative splicing.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	270:958–965,1995
第3回	名古屋大学医学部整形外科	栗田 和洋	Occurrence of PG-Lb, a leucine-rich small chondroitin/dermatan sulphate proteoglycan in mammalian epiphyseal cartilage : molecular cloning and sequence analysis of the mouse cDNA.(Biochemical Journal)	Biochemical Journal	318:909–914,1996
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第4回	広島大学歯学部口腔生化学	Yan Weiqun	Effects of Concanavalin A on Chondrocyte Hypertrophy and Matrix Calcification.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	272:7833–7840,1997
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	近畿大学医学部整形外科	福田 寛二	Cyclic tensile stretch on bovine articular chondrocytes inhibits protein kinase C activity.(The Journal of Laboratory and Clinical Medicine)	The Journal of Laboratory and Clinical Medicine	130:209–215,1997

第5回	京都大学臨床病態医学第二内科	八十田 明宏	Natriuretic Peptide Regulation of Endochondral Ossification.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	273(19):11695–11700,1998
	大阪市立大学医学部整形外科	乾 健太郎	Local Application of Basic Fibroblast Growth Factor Minipellet Induces the Healing of Segmental Bony Defects in Rabbits.(Calcified Tissue International)	Calcified Tissue International	63(6):490–495,1998
第6回	名古屋大学医学部整形外科	西田 佳弘	Antisense inhibition of Hyaluronan synthase-2 in human articular chondrocytes inhibits proteoglycan retention nad matrix assembly.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	274(31):21893–21899,1999
	岡山大学歯学部口腔生化学	中西 徹	Effects of CTGF/Hcs24, a Product of a hypertrophic Chondrocyte-Specific Gene on the Proliferation and Differentiation of Chondrocytes in Culture.(Endocrinology)	Endocrinology	141:264–273,2000
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	東京慈恵会医科大学整形外科	吉田 衛	In Vitro Synthesis of Hyaluronan by a Single Protein Derived from Mouse HAS1 Gene and Characterization of Amino Acid Residues Essential for the Activity(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	275(1):497–506,2000
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第7回	広島大学歯学部口腔健康発育学(歯科矯正学)	本田 康文、大野 茂	The effects of high magnitude cyclic tensile load on cartilage matrix metabolism in cultured chondrocytes (European Journal of Cell Biology)	European Journal of Cell Biology	79:601–609,2000
	University of Texas Health Science Center	富田 益広	Nitric Oxide Regulates Mitochondrial Respiration and Functions of Articular Chondrocytes (Arthritis and Rheumatism)	Arthritis and Rheumatism	44(1):96–104,2001
	横浜市立大学医学部整形外科	上杉 昌章	Inflammatory Properties of IgG Modified by Oxygen Radicals and Peroxynitrite(The Journal of Immunology)	The Journal of Immunology	165:6532–6537,2000

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第8回	東京大学医学部整形外科	下赤 隆	Regulation of Osteoblast, Chondrocyte, and Osteoclast Functions by Fibroblast Growth Factor(FGF)-18 in Comparison with FGF-2 and FGF-10(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	277:7493–7500,2002
	京都大学医学部整形外科	伊藤 宣	Molecular Cloning and Biological Activity of a Novel Lysyl Oxidase-related Gene Expressed in Cartilage(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	276(26):24023–24029,2001
	群馬大学医学部整形外科	神戸 克明	Stimulation of matrix metalloprotease 3 release from human chondrocytes by the interaction of stromal cell-derived factor 1 and CXC chemokine receptor 4.(Arthritis and Rheumatism)	Arthritis and Rheumatism	46:130–137,2002
第9回	京都大学医学部整形外科	安田 義	Involvement of CD44 in Induction of Matrix Metalloproteinases by a Carboyl-terminal Heparin-binding Fragment of Fibronectin in Human Articular Cartilage in Culture(Arthritis and Rheumatism)	Arthritis and Rheumatism	48:1271–1280,2003
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	順天堂大学医学部整形外科	瀬戸 宏明	Distinct roles of Smad pathways and p38pathways in cartilage-specific gene expression in synovial fibroblasts(The Journal of Clinical Investigation)	The Journal of Clinical Investigation	113(5):718–726,2004

第10回	愛知医科大学 分子医科学研究所	松本 和	Distinct Interaction of Versican/PG-M with Hyaluronan and Link Protein.(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	278(42):41205–41212,2003
	住友製薬(株)研究本部 創薬第二研究所	橋本 学爾	Matrix Metalloproteinases Cleave Connective Tissue Growth Factor and Reactivate Angiogenic Activity of Vascular Endothelial Growth Factor 165(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	277(39):36288–36295,2002
	大阪市立大学医学部 整形外科	橋本 祐介	Mutation(D472Y) in the Type 3 Repeat Domain of Cartilage Oligomeric Matrix Protein Affects Its Early Vesicle Trafficking in Endoplasmic Reticulum and Induces Apoptosis(American Journal of Pathology)	American Journal of Pathology	163(1):101–110,2003
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第11回	関西労災病院整形外科	堀木 充	Smad6/Smurf1 overexpression in cartilage delays chondrocyte hypertrophy and causes dwarfism with osteopenia(The Journal of Cell Biology)	The Journal of Cell Biology	165(3):433–445,2004
	九州大学医学部整形外科	坂本 昭夫	Chondrocyte-specific knockout of the G Protein Gs leads to epiphyseal and growth plate abnormalities and ectopic chondrocyte formation.(The Journal of Bone and Mineral)	The Journal of Bone and Mineral	20(4):663–671 (2005)
	東京大学医学部整形外科	筑田 博隆	Cyclic GMP-dependent protein kinase II is a molecular switch from proliferation to hypertrophic differentiation of chondrocytes(GENES & DEVELOPMENT)	GENES & DEVELOPMENT	18:2418–2429,2004
第12回	東京医科歯科大学 整形外科	坂口 祐輔	Superiority of synovium as cell source: Comparison of human stem cells derived from various mesenchymal tissues(Arthritis and Rheumatism)	Arthritis and Rheumatism	52(8):2521–2529,2005
	岐阜大学医学部整形外科	神谷 宣広	Versican/PG-M Regulates Chondrogenesis as an Extracellular Matrix Molecule Crucial for Mesenchymal Condensation(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	281(4):2390–2400,2006
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第13回	東京医科歯科大学 整形外科	坂井 順一郎	Chondroitin Sulfate N-Acetylgalactosaminyltransferase-1 Plays a Critical Role in Chondroitin Sulfate Synthesis in Cartilage(The Journal of Biological Chemistry)	The Journal of Biological Chemistry	282(6):4152–4161,2007
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	東京大学医学部整形外科	斎藤 琢	S100A1 and S100B, transcriptional targets of SOX trio, inhibit terminal differentiation of chondrocytes(EMBO Reports)	EMBO Reports	8(5):504–509,2007
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第14回	信州大学医学部整形外科	中村 幸男	The CCN family member Wisp3, mutant in progressive pseudorheumatoid dysplasia, modulates BMP and Wnt signaling	The Journal of Clinical Investigation	117(10):3075–3086,2007
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	慶應義塾大学医学部 整形外科	三尾 太	A Functional Polymorphism in COL11A1, Which Encodes the $\alpha 1$ Chain of Type XI Collagen, Is Associated with Susceptibility to Lumbar Disc Herniation	The American Journal of Human Genetics	81:1271–1277,2007
第15回	横浜労災病院整形外科	川崎 洋介	Phosphorylation of GSK-3 β by cGMP-dependent protein kinase ? promotes hypertrophic differentiation of murine chondrocytes	The Journal of Clinical Investigation	118:2506–2515,2008
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	Harvard Medical School, Department of Genetics	菅 哲徳	Screening of Chondrogenic Factors With a Real-time Fluorescence-Monitoring Cell Line ATDC5-C2ER Identification of Sorting Nexin 19 as a Novel Factor	ARTHRITIS & RHEUMATISM	60(11): 3314–3323,November 2009
	京都市立病院整形外科	北折 俊之	Stromal Cell-Derived Factor 1/CXCR4 Signaling Is Critical for the Recruitment of Mesenchymal Stem Cells to the Fracture Site During Skeletal Repair in a Mouse Model	ARTHRITIS & RHEUMATISM	60(3): 813–823,March 2009

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第17回	国立成育医療センター 研究所 システム発生・ 医学研究部	伊藤 義晃	The Mohawk homeobox gene is a critical regulator of tendon differentiation	Proc Natl Acad Sci U S A.	107(23):10538–42, June 2010
	大阪医科大学整形外科	大槻 周平	Extracellular sulfatases support cartilage homeostasis by regulating BMP and FGF signaling pathways	Proc Natl Acad Sci U S A.	107(22):10202–7, June 2010
	慶應義塾大学医学部 病理学教室	木村 徳宏	RECK Is Up-Regulated and Involved in Chondrocyte Cloning in Human Osteoarthritic Cartilage	American Journal of Pathology	176(6):2858–67, June 2010
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	京都大学医学部整形外 科	山本 浩司	Wwp2 is essential for palatogenesis mediated by the interaction between Sox9 and mediator subunit 25	Nature Communications	2: Article No.251, March 2011
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	名古屋大学医学部 整形外科	小澤 英史	Osteoarthritic Change Is Delayed in a Ctsk-Knockout Mouse Model of Osteoarthritis	Arthritis & Rheumatism	Vol.64, No.2, Feb.2012, pp454–64

第18回	慶應義塾大学医学部 整形外科学教室	大久保 匡	Semaphorin 3A Is Expressed in Human Osteoarthritic Cartilage and Antagonizes Vascular Endothelial Growth Factor 165–Promoted Chondrocyte Migration ; An Implication for Chondrocyte Cloning	Arthritis & Rheumatism	Vol.63, No.10, Oct.2011, pp3000–9
	京都大学医学部整形外科	石川 正洋	Lectin-like Oxidized Low-Density Lipoprotein Receptor 1 Signal Is a Potent Biomarker and Therapeutic Target for Human Rheumatoid Arthritis	Arthritis & Rheumatism	Vol.64, No.4, Apr. 2012, pp1024–34
	神戸大学医学部整形外科	佐々木 宏	Autophagy Modulates Osteoarthritis–Related Gene Expression in Human Chondrocytes	Arthritis & Rheumatism	Vol.64, No.6, Jun. 2012, pp1920–28
第19回	名古屋大学医学部 整形外科	吉岡 裕	Suppression of hyaluronan synthesis alleviates inflammatory responses in murine arthritis and in human rheumatoid synovial fibroblasts.	Arthritis Rheum.	65(5):1160–70
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	東北大学医学部整形外科	橋本 功	Regulated Transcription of Human Matrix Metalloproteinase13(MMP13)and Interleukin-1 β (IL1B)Genes in Chondrocytes Depends on Methylation of Specific Proximal Promoter CpG Sites	THE JOURNAL OF BIOLOGICAL CHEMISTRY	288(14):10061–10072
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第20回	東京医科歯科大学 運動器外科学	大関 信武	Transplantation of Achilles Tendon Treated With Bone Morphogenetic Protein 7 Promotes Meniscus Regeneration in a Rat Model of Massive Meniscal Defect	ARTHRITIS & RHEUMATISM	65(11):2876–2886
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	神戸大学大学院 医学研究科 整形外 科	松崎 時夫	Disruption of Sirt1 in chondrocytes causes accelerated progression of osteoarthritis under mechanical stress and during ageing in mice	Annals of the Rheumatic Diseases	73(7):1397–1404
第21回	名古屋大学医学部 整形外科	松下 雅樹	Meclozine Promotes Longitudinal Skeletal Growth in Transgenic Mice with Achondroplasia Carrying a Gain-of-Function Mutation in the FGFR3 Gene	Endocrinology	156(2):548–554
	京都大学 iPS細胞研究 所(CiRA) 増殖分化機構研究部門 細胞誘導制御学分野	山下 晃弘	Statin treatment rescues FGFR3 skeletal dysplasia phenotypes	Nature	513(7519),507–11,2014
	鹿児島大学医学部 整形外科	桜 博則	Bone Morphogenic Protein(BMP) Signaling Up-regulates Neutral Sphingomyelinase 2 to Suppress Chondrocyte Maturation via the Akt Protein Signaling Pathway as a Negative Feedback Mechanism	THE JOURNAL OF BIOLOGICAL CHEMISTRY	Vol.289(12):8135–8150
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	順天堂大学医学部付属 順天堂東京江東高齢者 医療センター 整形外科	小池 正人	Mechanical overloading causes mitochondrial superoxide and SOD2 imbalance in chondrocytes resulting in cartilage degeneration	Scientific Reports 5	Article number: 11722(2015)doi:10.1038/sre p11722

第22回	九州大学病院 整形外科	赤崎 幸穂	FoxO transcription factors support oxidative stress resistance in human chondrocytes.	Arthritis & Rheumatology	66(12):3349–58.2014 Dec
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第23回	北海道大学病院 整形外科	遠藤 努	Syndecan 4 Regulation of the Development of Autoimmune Arthritis in Mice by Modulating B Cell Migration and Germinal Center Formation	Arthritis & Rheumatology	2015 Sep;67(9):2512–22
	東京大学大学院 医学系研究科 外科学専攻 整形外科	谷口 優樹	Regulation of Chondrocyte Survival in Mouse Articular Cartilage by p63	Arthritis & Rheumatology	2017 Mar;69(3):598–609
第24回	神戸大学医学部 整形外科	木原 伸介	Cyclin-Dependent Kinase Inhibitor-1-Deficient Mice are Susceptible to Osteoarthritis Associated with Enhanced Inflammation	Journal of Bone and Mineral Research	2017 May;32(5):991–1001
	名古屋大学大学院 医学系研究科整形外科	樋口 善俊	Conditional knockdown of hyaluronidase 2 in articular cartilage stimulates osteoarthritic progression in a mice model	SCIENTIFIC REPORTS	32(5):1641–1646,2017
	大阪大学歯学研究科 頸顔面口腔矯正学教室	犬伏 俊博	Palovarotene Inhibits Osteochondroma Formation in a Mouse Model of Multiple Hereditary Exostoses	Journal of Bone and Mineral Research	2018 Apr;33(4):658–666
	岡山大学病院 整形外科	長谷井 嬢	TWIST1 induces MMP3 expression through up-regulating DNA hydroxymethylation and promotes catabolic responses in human chondrocytes	Scientific Reports	vol.7:42990(2017)doi:10.1038
	東京医科歯科大学 統合研究機構 再生医療研究センター	水野 満	Specific markers and properties of synovial mesenchymal stem cells in the surface, stromal, and perivascular regions.	Stem Cell Research & Therapy	2018 May 2;9(1):123.
	東京大学医学部附属病院 整形外科	張 成虎	Excessive mechanical loading promotes osteoarthritis through the gremlin-1-NF-κB pathway	Nature Communications	2019.Mar 29;10(1):1442

第25回	北海道大学附属病院 整形外科	辻本 武尊	An acellular bioresorbable ultra-purified alginate gel promotes intervertebral disc repair: A preclinical proof-of-concept study	EBioMedicine	37(2018)521–534
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第26回	大阪大学大学院 医学系研究科 整形外科	下村 和範	Enhanced repair of meniscal hoop structure injuries using an aligned electrospun nanofibrous scaffold combined with a mesenchymal stem cell-derived tissue engineered construct	Biomaterials	Volume 192, February 2019, Pages 346–354
	北海道大学大学院 医学研究院 整形外科学教室	太田 光俊	Role of Chondrocytes in the Development of Rheumatoid Arthritis Via Transmembrane Protein 147-Mediated NF- κ B Activation	Arthritis & Rheumatology	Vol.72, No.6, June 2020 PP931–942
	鹿児島大学大学院 医歯学総合研究科 歯科矯正学分野	石川 崇典	Physiological role of urothelial cancer-associated one long noncoding RNA in human skeletogenic cell differentiation	Journal of Cellular Physiology	2018 Jun;233(6):4825–4840
第27回	東京大学医学部附属病院 整形外科・脊椎外科	中元 秀樹	Involvement of Transient Receptor Potential Vanilloid Channel 2 in the Induction of Lubricin and Suppression of Ectopic Endochondral Ossification in Mouse Articular Cartilage	Arthritis Rheumatol. 2021 Feb 14	online ahead of print
	東京大学大学院 医学系研究科 整形外科学	河田 学	Simple and Robust Differentiation of Human Pluripotent Stem Cells toward Chondrocytes by Two Small-Molecule Compounds	Stem Cell Reports	13(3):530–544, 2019.9.10
第28回	岡山大学学術研究院 (医学系) 組織機能修復学分野	山田 大祐	Induction and expansion of human PRRX1+ limb-bud-like mesenchymal cells from pluripotent stem cells	Nature Biomedical Engineering	5:926–940
	佐賀大学医学部附属 再生医学研究センター	中村アンナ マリア	Bio-3D printing iPSC-derived human chondrocytes for articular cartilage regeneration	Biofabrication	13 044103
	九州大学大学院 医学研究院 整形外科	倉員 市郎	TGF β 1 signaling protects chondrocytes against oxidative stress via FOXO1-autophagy axis	Osteoarthritis and Cartilage	29(11):1600–1613
	東京大学大学院 医学系 研究科外科学専攻感覚・ 運動機能医学講座/JCHO 湯河原病院 リウマチ科	前之原 悠司	Lubricin Contributes to Homeostasis of Articular Cartilage by Modulating Differentiation of Superficial Zone Cells	Journal of Bone and Mineral Research	36(4):792–802
	神戸大学大学院 整形外科	辻本 龍	Involvement of autophagy in the maintenance of rat intervertebral disc homeostasis: an in-vitro and in-vivo RNA interference study of Atg5	Osteoarthritis and Cartilage	30:481–493