Speaker CV Form

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Name	Norimasa Iwasaki
Current Position & Affiliation	Professor, Chairman, Department of Orthopaedic Surgery, Hokkaido University Faculty of Medicine and Graduate School of Medicine
Country	Japan

Educational Background

M.D.- Asahikawa Medical University, 1988

Ph.D.- Hokkaido University Graduate School of Medicine, 1998

April, 1994-August, 1995- Research fellowship in Biomechanics Laboratory,
Department of Orthopaedic Surgery,
Johns Hopkins University School of Medicine, MD., USA

Professional Experiences

1988-1993 Orthopaedic Residency: Department of Orthopaedic Surgery,
Hokkaido University School of Medicine

1993-1994 Hand Fellowship: Hand and Microsurgery section,
Department of Orthopaedic Surgery, Hokkaido University School of Medicine

2000-2010 Assistant Professor: Department of Orthopaedic Surgery,
Hokkaido University School of Medicine

2010-2012 Associate Professor: Department of Orthopaedic Surgery,
Hokkaido University Graduate School of Medicine

2012- Professor & Chairman: Department of Orthopaedic Surgery,
Hokkaido University Faculty of Medicine and Graduate School of Medicine.

Main Scientific Publications

1. Iwasaki N, Yamane S, Majima T, Minami A, Harada K, Nonaka S, Maekawa N, Tamura H, Tokura S, Monde K, Nishimura S: Feasibility of polysaccharide hybrid materials for scaffolds in cartilage tissue engineering: evaluation of chondrocyte adhesion to polyion complex fibers prepared from alginate and chitosan. Biomacromolecules 5:828-833, 2004
2. Yamane S, Iwasaki N, Majima T, Funakoshi T, Masuko T, Harada K, Minami A, Monde K, Nishimura S: Feasibility of chitosan-based hyaluronic acid hybrid biomaterial for a novel scaffold in cartilage tissue engineering. Biomaterials 26:611-619, 2005
3. Iwasaki N, Kato H, Ishikawa J, Masuko T, Funakoshi T, Minami A: Autologous osteochondral mosaicplasty for osteochondritis dissecans of the elbow in teenage athletes. J Bone Joint Surg Am. 91:2359-2366, 2009
4. Iwasaki N, Kato H, Kamishima T, Minami A: Sequential alterations in magnetic resonance imaging findings after osteochondral mosaicplasty for young athletes with osteochondritis dissecans of the humeral capitellum. Am J Sports Med. 37:2349-2354, 2009
5. Urita A, Matsuhashi T, Onodera T, Nakagawa H, Hato M, Amano M, Seito N, Minami A, Nishimura S-I, Iwasaki N: Alterations of high-mannose type N-glycosylation in human and mouse osteoarthritis cartilage. Arthritis Rheum. 63:3428-3438, 2011
6. Igarashi T, Iwasaki N, Kawamura T, Tsukuda Y, Kasahara Y, Todoh M, Tadano S, Minami A: Therapeutic effects of intra-articular ultra-purified low endotoxin alginate administration on experimental osteoarthritis in rabbits. Cartilage 3:69-77, 2012
7. Sukegawa A, Iwasaki N, Kasahara Y, Onodera T, Igarashi T, Minami A: Repair of rabbit osteochondral defects by an acellular technique with an ultrapurified alginate gel containing stromal cell-derived factor-1. Tissue Eng Part A. 18:934-945, 2012
8. Baba R, Onodera T, Momma D, Matsuoka M, Hontani K, Elmorsy S, Endo K, Todoh M, Tadano S, Iwasaki N: A novel bone marrow stimulation technique augmented by administration of ultrapurified alginate gel enhances osteochondral repair in a rabbit model. Tissue Eng Part C Methods 21:1263-1273, 2015
9. Baba R, Onodera T, Matsuoka M, Hontani K, Joutoku Z, Matsubara S, Homann K, Iwasaki N: Bone marrow stimulation technique augmented by an ultra-purified alginate gel enhances cartilage repair in a canine model. Am J Sports Med. 46:1970-1979, 2018
10. Hishimura R, Onodera T, Hontani K, Baba R, Homan K, Matsubara S, Joutoku Z, Kim WY, Nonoyama T, Kurokawa T, Gong JP, Iwasaki N: Osteochondral autograft transplantation technique augmented by an ultrapurified alginate gel enhances osteochondral repair in a rabbit model. Am J Sports Med. 47:468-478, 2019
11. Momma D, Onodera T, Kawamura D, Urita A, Matsui Y, Baba R, Funakoshi T, Kondo M, Endo T, Kondo E, Iwasaki N: Acellular cartilage repair technique based on ultrapurified alginate gel implantation for advanced capitellar osteochondritis dissecans. Orthop J Sports Med. 9:23259671 21989676, 2021
12. Xu L, Urita A, Onodera T, Hishimura R, Nonoyama T, Hamasaki M, Liang D, Homan K, Gong JP, Iwasaki N: Ultrapurified alginate gel containing bone marrow aspiration concentrate enhances cartilage and bone regeneration on osteochondral defects in a rabbit model. Am J Sports Med. 49:2199-2210, 2021
13. Onodera T, Momma D, Matsuoka M, Kondo E, Suzuki K, Inoue M, Higano M, Iwasaki N: Single-step ultra-purified alginate gel implantation in patients with knee chondral defects. Bone Joint J. 105-B:880-887, 2023
14. Yamada K, Hyakumachi T, Kokabu T, Maeda K, Isoe T, Tha KK, Ito YM, Ohnishi T, Endo T, Ukeba D, Tachi H, Abe Y, Ishikawa Y, Yokota N, Miyakoshi T, Sugita O, Sato N, Iwasaki N, Sudo H: Acellular, bioresorbable, ultra-purified alginate gel implantation for intervertebral disc herniation: Phase 1/2, open-label, non-randomized clinical trials. Nat Commun. 16:4285, 2025