The Knee Joint
The Knee Joint
Surgical Techniques and Strategies

Michel Bonnin
Annunziato Amendola
Johan Bellemans
Steven MacDonald
Jacques Ménétrey
List of Contributors

M. Aboelnour
Department of Orthopaedics, MA Mansoura University, Mansoura, Egypt, Germany

J. D. Agneskirchner
DK Henriettenstiftung Hannover, D-30171 Hannover, Marienstrasse 72-90, Germany

T. Ait Si Selmi
Centre Orthopédique Santy
24, avenue Paul Santy
69008 Lyon France

Sam Akhavan
Orthopaedic Sports Research and Clinical, Cleveland Clinic Sports Health, Cleveland Clinic Foundation, Cleveland, Ohio USA

Karl Fredrik Almqvist
Department of Traumatology and Orthopaedic Surgery, Ghent University, Belgium

Annuziato Amendola
University of Iowa Sports Medicine Center, University of Iowa Hospitals and Clinics, 200 Hawkins Dr., Iowa city, Iowa, 52242 USA

Andrew A. Amis
Biomechanics Section, Mechanical Engineering Department, Imperial College London, London SW7 2AZ, UK

Elizabeth A. Arendt
Department of Orthopaedic Surgery, University of Minnesota, Minneapolis, MN 55454

Jean-Noel A. Argenson
Department of Orthopedic Surgery, Aix-Marseille University, Hospital Sainte-Marguerite, Marseille, France

Abdullah Ashour
Department of Orthopedic Surgery, Aix-Marseille University, Hospital Sainte-Marguerite, Marseille, France

Sunil Apsingi
24 'The Drummonds

Jean-Manuel Aubaniac
Department of Orthopedic Surgery, Aix-Marseille University, Hospital Sainte-Marguerite, Marseille, France

Xavier Ayral
Service de Rhumatologie B
Hôpital Cochin
27, rue du faubourg Saint Jacques
75014 Paris, France

Roger Badet
Pôle ostéo-articulaire santé et sport
60, avenue du Médiqôle
38300 Bourgoin Jallieu, France

Roald Bahr
Oslo Sports Trauma Research Center, Norwegian School of Sport Sciences, PB 4014 Ullevål Stadion, 0806 Oslo, Norway

C. Lowry Barnes
Arkansas Specialty Orthopaedics, 600 South McKinley, Suite 405, Little Rock, Arkansas, 72205, USA

Philippe Beaufils
Orthopaedic Department
Versailles Hospital
F-78150 Le Chesnay, France

Johan Bellemans
Department of Orthopaedic Surgery, University Hospitals Leuven, Belgium
Universitaire Ziekenhuizen KU Leuven, campus Pellenberg, Weligerveld 1, 3212 Pellenberg, Belgium
Department of Orthopaedics, University hospitals Leuven, Herestraat 49 B-3000 Leuven, Belgium

Guy Bellier
Orthopaedic Surgery
23, avenue Niel
75017 Paris, France
The Knee Joint

Timothy H. Bell
London Health Sciences Center, University Campus, Room ADD
Jim’s room, 339 Windermere Road, London, Ontario, Canada

Jérôme Béard
Paediatric Orthopaedic Department, CHU Lyon, Hôpital universitaire Femme-Mère-Enfant de Lyon, Université Claude Bernard Lyon 1 59, boulevard Pinel, 69677 Bron, France

Daniel J. Berry
Department of Orthopedic Surgery Mayo Clinic, 200 First Street SW Rochester, Minnesota, USA

Aaron J. Bigham
Division of Orthopaedic Surgery, London Health Sciences Centre, 339 Windermere Road, London, ON, Canada

Davide Edoardo Bonasia
University of Iowa Sports Medicine, Via Lamarmora 26, Torino, 10128, Italy

Jean-Paul Bonvarlet
Institut Nollet, 23 rue Brochant, 75017 Paris, France

M. Bonnin
Centre Orthopédique Santy, 24, avenue Paul Santy, 69008 Lyon, France

Robert Barry Bourne
London Health Sciences Centre, University Hospital, London, Ontario, Canada

Jean Brilhaut
Université François Rabelais Tours, CHRU Tours, France

Robert H. Brophy
Department of Orthopaedic Surgery, 14532 South Outer Forty Drive, Chesterfield, MO 63017

Robert T. Burks
University of Utah Orthopaedic Center, 590 Wakara Way, Salt Lake City Utah 84108

Philippe Burdin
Université François Rabelais Tours, CHRU Tours, France

Stephen J. Burnett
Division of Orthopaedic Surgery, Royal Jubilee Victoria Hospital, Victoria, BC, Canada

Christophe Bussière
Centre Orthopédique Médico-Chirurgical 71640 Dracy-le-Fort

Pieter Byn
AZ Maria Middelares Gent, Kortrijkensteenweg 1028, 9000 Gent, Belgium

James R Carmichael
Consultant orthopaedic surgeon Peterborough and Stamford Hospitals NHS Foundation Trust UK

David Carmody
Level 2/445 Victoria Ave, Chatswood 2067 NSW Australia

Yannick Carrillon
Centre Orthopédique Santy, 24, avenue Paul Santy, 69008 Lyon, France

Yves Catonné
Orthopaedic Department Hôpital de la Pitié-Salpêtrière 47-83 boulevard de l’Hôpital 75651 Paris, France

P. Chambat
Centre Orthopédique Santy, 24 Av Paul Santy, 69008, Lyon, France

Le Roy Chong
Department of Diagnostic Radiology, Changi General Hospital, No 2, Simei Street 3, 529889, Singapore

Franck Chotel
Paediatric Orthopaedic Department, CHU Lyon, Hôpital universitaire Femme-Mère-Enfant de Lyon, Université Claude Bernard Lyon 1, 59, boulevard Pinel, 69677 Bron, France

Mark Clatworthy
Middlemore Hospital Auckland, New Zealand

Neil Clerk
Fowler Kennedy Sport Medicine Centre, 3M Centre, University Of Western Ontario, London, Ontario, Canada N6A 3K7
List of Contributors

Brian J. Cole  
Departments of Orthopedics & Anatomy and Cell Biology  
Division of Sports Medicine  
Section Head, Cartilage Restoration Center at Rush Rush University Medical Center, Department of Orthopedic Surgery, 1611 W Harrison, Suite 300 Chicago, IL 60612, USA

Kristoff Corten  
Department of Orthopaedics, University hospitals Leuven, Herestraat 49 B-3000 Leuven

Angela Deakin  
Golden Jubilee National Hospital, Beardmore Street, Clydebank, G81 4HX Glasgow UK

Michael J. DeFranco  
Rush University Medical Center, Department of Orthopedic Surgery, 1725 West Harrison Street, Suite 1063, Chicago, IL 60612

David Dejour  
Lyon-Ortho-Clinic  
8 Avenue Ben Gourion, Lyon 69009, France

Marco Delcogliano  
Department of Orthopedic and Sports Trauma, Rizzoli Orthopaedic Institute, Bologna, Italy

Craig J. Della Valle  
Associate Professor of Orthopaedic Surgery, Rush University Medical Center, Chicago, IL 60612

Douglas A. Dennis  
Department of Biomedical Engineering, University of Tennessee, Rocky Mountain Musculoskeletal Research Laboratory, Denver, Colorado

Patrick Deprez  
Orthopaedic Department, A.Z. St-Lucas, St-Lucaslaan 29, 8310 Brugge, Belgium

Jacques Desnoyer  
Orthopaedic Clinic Charles LeMoyne  
126, rue Saint-Louis LeMoyne, QC Canada

Gérard Deschamps  
Centre Orthopédique Médico-Chirurgical  
71640 Dracy-le-Fort

Natasa Devic  
Imperial College London, Biomechanics Section, Mechanical Engineering Department, South Kensington Campus, Exhibition Road, London SW7 2AZ

Karolien Didden  
Universitaire Ziekenhuizen KU Leuven, Welgerveld 1, 3212 Pellenberg, Belgium

Patrick Djian  
Educational Secretary of the European Society of Sports Traumatology, Knee surgery and Arthroscopy (ESSKA)  
23, avenue Niel  
75017 Paris, France

Simon Donell  
Institute of Orthopaedics, Norfolk & Norwich University Hospital, UK

Michael Dunbar  
Division of Orthopedic Surgery, Dalhousie University, 1796 Summer Street Suite# 4822, QEII Health Sciences Centre, Halifax NS, Canada

Craig J. Edson  
GHS Orthopaedics Woodbine  
Danville, PA, USA

Andrew Edwards  
39 New Road  
Wonersh Guildford  
Surrey GU5 0SP

Evan D. Ellis  
Department of Orthopaedic Surgery, Washington University, St. Louis, MO

Lars Engebretsen  
Department of Orthopaedic Surgery  
Oslo University Hospital and Faculty of Medicine University of Oslo, Norway

Gregory C. Fanelli  
115 Woodbine Lane, Danville, PA 17822-5212, USA

Lutul D. Farrow  
Department of Orthopaedic Surgery, Cleveland Clinic, Cleveland, Ohio, USA

Giuseppe Filardo  
Department of Orthopedic and Sports Trauma, Rizzoli Orthopaedic Institute, Bologna, Italy
P. Filippini
University Paris XII APHP-Hôpital Henri Mondor, 94010 Créteil, France

Ronald P. Grelsamer
Department of Orthopedic Surgery,
The Mount Sinai Medical Center,
New York

Donald C. Fithian
Department of Surgical Outcomes and Analysis, 3033 Bunker Hill Street, San Diego, CA 92109

Chad J. Griffith
Department of Orthopaedic Surgery, University of Minnesota, 2450 Riverside Avenue, R200, Minneapolis, MN 55454

Brian Forsythe
Department of Orthopaedic Surgery, University of Pittsburgh Medical Center, Pittsburgh

Allan Gross
Mt Sinai Hospital
Toronto, Canada

Peter J. Fowler
Schulich School of Medicine & Dentistry, University Of Western Ontario, Fowler Kennedy Sport Medicine Centre, 3M Centre, London, Ontario, Canada N6A 3K7

Arlen D. Hanssen
Mayo Clinic,
Rochester, Minnesota

Freddie H. Fu
Department of Orthopaedic Surgery University of Pittsburgh 3471 Fifth Avenue Kaufman Building, Suite 1011 Pittsburgh, PA 15213, USA

Christopher D. Harner
Department of Orthopaedic Surgery, University of Pittsburgh School of Medicine, Pittsburgh

Donald S. Garbuz
Department of Orthopedics, University of British Columbia, 3114-910 West 10th Avenue, Vancouver, BC V5Z 4E3, Canada

Yves Hémon
Department of Orthopedic Surgery Aix-Marseille University Hopital Sainte-Marguerite Marseille, France

J Robert Giffin
Schulich School of Medicine & Dentistry, University Of Western Ontario, Fowler Kennedy Sports Medicine Centre, London, Ontario, Canada N6A 3K7

Julien Henry
Orthopaedic traumatology and Sport Medicine Department Hôpital Jules Courmont, CHU Lyon 69435 Pierre Bénite France

J Robert Giordano
Department of Orthopedic and Sports Trauma, Rizzoli Orthopaedic Institute, Bologna, Italy

Philippe Hernigou
University Paris XII APHP-Hôpital Henri Mondor – 94010 Crétel- France

Jason Gould
Department of Orthopedic Surgery, The Mount Sinai Medical Center, New York

Timothy E. Hewett, FACSM
Departments of Physiology and Cell Biology, Orthopaedic Surgery, Family Medicine, Biomedical Engineering & Allied Medicine The Ohio State University 2050 Kenny Road, Suite 3100 Columbus, OH 43221-3502 Departments of Pediatrics and Orthopaedic Surgery, University of Cincinnati College of Medicine, 3333 Burnet Avenue, MLC 10001, Cincinnati, OH 45229-3039

Edward James Graham
London Health Sciences Centre, University Hospital, London, Ontario

Benton E. Heyworth
Orthopaedic Surgery Resident, Hospital for Special Surgery, 535 East 70th Street, New York, NY 10021

Alberto Gregori
Hairmyres Eaglesham Road, G75 8RG Glasgow, UK

Jürgen Höher
Clinic for Sports Medicine und Arthroscopy
List of Contributors

Tim Kostamo
Department of Orthopaedics
3825 Sunset Street
Burnaby, BC V5G 1T4
Canada

Tron Krosshaug
Oslo Sports Trauma Research Center,
Norwegian School of Sport Sciences,
PB 4014 Ullevål Stadion, 0806 Oslo, Norway

Matthias Kusma
Department of Orthopaedic Surgery,
University Hospital, Saarland University,
Homburg/Saar, Germany

Robert F. LaPrade
The Steadman Clinic
Biomechanics Research Department - Steadman
Philippon Research Institute
181 W. Meadow Drive
Suite 1000 Vail,
Colorado 81657, USA

Leonard C. Latt
Duke University Medical Center, Box 3000,
Durham, NC 27710

Thomas Laumonier
Unité d’orthopédie et traumatologie du sport,
Service de chirurgie orthopédique
et traumatologie de l’appareil moteur,
Hôpitaux Universitaires de Genève,
24, rue Micheli-du-Crest,
CH-1211 Genève 14, Suisse

Jean Raphael Laurent
Orthopaedic Surgery
10A, rue du Bourdeau
7542 Mont-Saint-Aubert, France

Frédéric Lavioie
Service de Chirurgie Orthopédique,
Hôpital Notre-Dame, Centre Hospitalier
Universitaire de Montréal, 1560 Sherbrooke
Est, local DR 1118-16, Montréal, Canada

Vincent Leclercq
Prosthesis design and manufacturing
Symbios Orthopaedic SA

Pierre-François Leyvraz
Département appareil locomoteur
Hôpital orthopédique CHUV
CH-1011 Lausanne, Suisse

Philipp Lobenhoffer
DK Henriettenstiftung Hannover,
D-30171 Hannover, Marienstrasse 72-90

at Cologne Merheim Medical Center
University of Witten-Herdecke
Cologne, Germany

James L. Howard
Division of Orthopaedic Surgery,
London Health Sciences Centre,
339 Windermere Road, London, ON, Canada

William J. Hozack
Rothman Institute at Thomas Jefferson
University, 925 Chestnut Street, 5th Floor,
Philadelphia, PA 19107, USA

Junji Iwasa
Orthopaedic Center, Ullevaal University
Hospital and Medical School, Oslo, Norway

Jeffrey D. Jackson
Department of Orthopedic Surgery,
Mayo Clinic, 200 First Street,
SW, Rochester, MN 55905

Redouane Jalil
University Paris XII APHP-Hôpital
Henri Mondor, 94010 Créteil- France

Bret T. Kean
University of Utah Orthopaedic Center,
590 Wakara Way,
Salt Lake City Utah 84108

Frédéric Khiami
Orthopaedic Department
Hôpital de la Pitié-Salpêtrière
47-83, boulevard de l’Hôpital
75651 Paris, France

Sung-Jae Kim
Department of Orthopaedic Surgery
and the Arthroscopy & Joint Research
Institute, Yonsei University Health System,
Seoul, Korea

Raymond H. Kim
Colorado Joint Replacement, Denver, Colorado

Richard Kjar
42 Green St, Wangaratta, VIC 3677, Australia

Dieter Kohn
Department of Orthopaedic Surgery,
University Hospital, Saarland University,
Homburg/Saar, Germany

Elizaveta Kon
Department of Orthopedic and Sports Trauma,
Rizzoli Orthopaedic Institute, Bologna, Italy

IX
David Longino
Fowler Kennedy Sport Medicine Centre, 3M Centre, University Of Western Ontario, London, Ontario, Canada N6A 3K7

Sébastien Lustig
Service de Chirurgie Orthopédique de la Croix-Rousse, 8, rue de Margnolles 69300 Caluire, Lyon, France

Tad M. Mabry
Mayo Clinic, Rochester, Minnesota

Steven J. MacDonald
University Hospital, London, Ontario, Canada

Maurilio Marcacci
Department of Orthopedic and Sports Trauma, Rizzoli Orthopaedic Institute, Bologna, Italy

Giulio M. Marcheggiani Muccioli
Department of Orthopedic and Sports Trauma, Rizzoli Orthopaedic Institute, Bologna, Italy

Fabrizio Margheritini
Department of Health Science, Unit of Sports Traumatology, Piazza Lauro de Bosis 6, 00199, Rome, Italy

Pier Paulo Mariani
Department of Health Science, Unit of Sports Traumatology, Piazza Lauro de Bosis 6, 00199, Rome, Italy

Robert G. Marx
Foster Center for Clinical Outcome Research, Hospital for Special Surgery, 535 East 70th Street, New York, NY 10021 Weill Medical College of Cornell University, New York, NY

Randy Mascarenhas
Department of Orthopaedic Surgery, University of Pittsburgh School of Medicine, Pittsburgh

Bassam A. Masri
Department of Orthopaedics, University of British Columbia, 3114-910 West 10th Avenue, Vancouver, BC V5Z 4E3, Canada

Matthew. J. Matava
Washington University Department of Orthopaedic Surgery, St. Louis, MO

David R. McAllister
Sports Medicine Service David Geffen School of Medicine at UCLA Department of Orthopaedic Surgery Los Angeles, CA 90095-6902

James McAuley
London Health Sciences Center, University Campus, Room ADD, 339 Windermere Road, London, Ontario, Canada

Richard W. McCalder
University of Western Ontario, Division of Orthopaedic Surgery, London Health Science Centre, London, Ontario, Canada

Allison G. McNickle
Rush University Medical Center, Department of Orthopedic Surgery, 1725 West Harrison Street, Suite 1063, Chicago, IL 60612

Jacques Ménétrey
Unité d’orthopédie et traumatologie du sport (UOTS), Service de chirurgie orthopédique et traumatologie de l’appareil moteur, University Hospital of Geneva, Rue Gabrielle-Perret-Gentil 4, 1211 Geneva 14

Guy Messerli
Unité d’orthopédie et traumatologie du sport (UOTS), Service de chirurgie orthopédique et traumatologie de l’appareil moteur, University Hospital of Geneva, Rue Gabrielle-Perret-Gentil 4, 1211 Geneva 14

Anthony Miniaci
CCLCM Cleveland Clinic 5555 Transportation Blvd. Garfield Heights, OH 44125, USA

Bernard Moyen
Orthopaedic Surgery Centre Hospitalier Lyon-Sud Chemin du Grand Revoyet 69495 Pierre-Bénite France

M. Mukisi Mukasa
University Paris XII APHP-Hôpital Henri Mondor, 94010 Créteil, France
List of Contributors

**Douglas D. R. Naudie**
London Health Sciences Center, University Campus, Room A9-028, 339 Windermere Road, London, Ontario, Canada

**John H. Newman**
Avon Orthopaedic Centre, Bristol, UK

**Philippe Neyret**
Service de Chirurgie Orthopédique, Centre Albert-Trillat, Hôpital de la Croix-Rousse, 8, rue de Margnolles, 69300 Caluire, Lyon, France

**Jean-Yves Nordin**
Orthopaedic Surgery, Clinique des Cedres-Echirolles, 48, avenue de Grugliasco, 38130 Echirolles, France

**Fabio R. Orozco**
Orthopedic Surgery, 2500 English Creek Avenue Building 1300, Egg Harbor Township, NJ 08234

**S. Ostermeier**
Orthopaedic Department, Hannover Medical School, Anna-von-Borries-Str. 1-7, 30625 Hannover, Germany

**Mark W. Pagnano**
Department of Orthopedic Surgery, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905

**Ludovico Panarella**
Clinica Valle Giulia, Via De Notaris 2b, 00197 Roma, Italy

**Jean Claude Panisset**
College of Orthopaedics, Clinique des Cedres-Grenoble, 48, avenue de Grugliasco, 38130 Echirolles, France

**Dietrich Pape**
Department of Orthopaedic and Trauma Surgery, Centre for Sports and Preventive Medicine, Centre Hospitalier de Luxembourg-Clinique d’Eich, 78, rte. d’Eich, L-1460 Luxembourg

**Richard D. Parker**
Cleveland Clinic Sports Health, Cleveland Clinic Foundation, Cleveland, Ohio

**Sebastien Parratte**
Department of Orthopedic Surgery, Aix-Marseille University, Hopital Sainte-Marguerite, Marseille, France

**Frédéric Picard**
Golden Jubilee National Hospital, Beardmore Street, Clydebank, G81 4HX Glasgow UK

**Sergio R. Piedade**
Professor, Department of Orthopedics, Exercise and Sport Medicine Group, State University of Campinas / UNICAMP, Rua Tessália Vieira de Camargo n° 126, Cidade Universitaria Zeferino Vaz, 13083-887, Campinas/SP

**Alexandre Poignard**
University Paris XII APHP-Hôpital Henri Mondor, 94010 Créteil, France

**Mathew W. Pombo**
Department of Orthopaedic Surgery, University of Pittsburgh Medical Center, Pittsburgh

**Hollis G. Potter**
Weil Medical College of Cornell University, 535 East 70th Street, New York, NY 10021

**Jean Louis Prudhon**
College of Orthopaedics, Clinique des Cedres-Echirolles, 48, avenue de Grugliasco, 38130 Echirolles, France

**Giancarlo Puddu**
Clinica Valle Giulia, Via De Notaris 2b, 00197 Roma, Italy

**Bénédicte Quelard**
Centre Orthopédique Santy, 24, avenue Paul Santy, 69008, Lyon, France

**Olivier Rachet**
Centre Hospitalier Publique d’Hauteville, 01 110 Hauteville, France

**Kian Raiszadeh**
400 Craven Road, San Marcos, CA 92078, USA

**Amar S. Ranawat**
Hospital for Special Surgery, 535 East 70th St, 6th Floor, New York, NY 10021, USA

**Anil S. Ranawat**
Hospital for Special Surgery
535 East 70th St, 6th Floor
New York, NY 10021, USA

Chitranjan S. Ranawat
Hospital for Special Surgery
535 East 70th St, 6th Floor
New York, NY 10021, USA

Corey J. Richards
Department of Orthopaedics,
University of British Columbia,
3114-910 West 10th Avenue,
Vancouver, BC V5Z 4E3, Canada

James R. Robinson
Avon Orthopaedic Centre,
Southmead Hospital,
Westbury-on-Trym, Bristol.
BS10 5NB, UK

Samuel P. Robinson
Department of Orthopaedics,
University of Pittsburgh,
3200 South Water Street,
Pittsburgh, PA 15213

Sérgio Rocha Piedade
Department of Orthopedics and Traumatology,
School of Medical Sciences, Exercise and Sport Medicine Group, State University of Campinas,
CEP 13081-970 Campinas, Sao Paulo, Brasil

James R. Robinson
Orthopaedic Surgery
Nuffield Health Bristol Hospital
Upper Byron Place
Clifton Bristol BS8 1JU UK

Aaron G. Rosenberg
Rush University Medical Center, 1725 West
Harrison Street, Suite 1063, Chicago, IL 60612

Alexander P. Sah
Rush University Medical Center, 1725 West
Harrison Street, Suite 1063,
Chicago, IL 60612

Elhadi Sariali
Orthopaedic Department
Hôpital de la Pitié-Salpêtrière
47-83 boulevard de l’Hôpital
75651 Paris, France

Sven Scheffler
Center for Musculoskeletal Surgery, Charité,
University Medicine Berlin, Germany

Richard D. Scott
New England Baptist Hospital

125 Parker Hill Ave Ste 560
Boston, MA

Romain Seil
Department of Orthopaedic and Trauma Surgery, Centre for Sports and Preventive Medicine, Centre Hospitalier de Luxembourg-
Clinique d’Eich, 78, rte. d’Eich,
L-1460 Luxembourg

Elvire Servien
Service de Chirurgie Orthopédique,
Centre Albert-Trillat, Hôpital de la Croix-
Rousse, 8, rue de Margnolles,
69300 Caluire, Lyon, France

Michael A. Shaffer
Department of Rehabilitation Therapies,
0733 JPP, University of Iowa Hospitals and Clinics, Iowa City, IA 52242

Sven Shafizadeh
Department for Orthopedics and Trauma Surgery
Cologne Merheim Medical Center
University of Witten-Herdecke Cologne,
Germany

Wei Shen
Department of Orthopaedics, University of Pittsburgh, 3200 South Water Street,
Pittsburgh, PA 15213

Yosuke Shima
Orthopaedic Center, Ullevaal University Hospital and Medical School, Oslo, Norway

Darryl B. Sneag,
Fourth-year Medical Student
Albert Einstein College of Medicine,
Yeshiva University

Bertrand Sonnery-Cottet
Centre Orthopédique Sainty,
24 Av Paul Santy, 69008 Lyon, France

Sankar Sripada
Trauma and Orthopaedics, Ninewells Hospital and Medical School, Dundee DD1 9SY,
Scotland, UK

Christina Stukenborg-Colsman
Orthopaedic Department
Hannover Medical School
Anna-von-Borries-Str. 1-7
30625 Hannover Germany

Michael Tanzer
Division of Orthopaedic Surgery, McGill University, Montreal, Quebec, Canada
Neil Thomas  
Consultant Orthopaedic Surgeon  
BMI The Hampshire Clinic UK

Bruno Tillie  
Orthopaedic Surgery  
Clinique Bon Secours  
2, rue du Docteur Forgeois  
62000 Arras

HARUKAZU TOHYAMA  
Department of Sports Medicine and Joint Reconstruction Surgery Hokkaido University School of Medicine, Sapporo, Japan

Geert Van Damme  
Department of Orthopaedic Surgery  
AZ Sint Lucas, Sint Lucasaan 29  
8310, Brugge, Belgium

Pieter Vansintjan  
Department of Orthopaedic Surgery,  
Ghent University Hospital,  
Ghent, Belgium

Ronald J van Heerwaarden  
Limb Deformity Reconstruction Unit, Department of Orthopaedics Sint Maartenskliniek Woerden, Polanerbaan 2, 3447 GN Woerden, 't He Netherlands

Johan Vanlauwe  
Department of Orthopaedics, University hospitals Leuven, Herestraat 49 B-3000 Leuven

Hilde Vandenneucker  
Department of Orthopaedics, University hospitals Leuven, Herestraat 49 B-3000 Leuven, Belgium

Chris M. van den Broek  
Department of Orthopaedics, Sint Maartenskliniek, PO Box 9011 6500 GM Nijmegen, The Netherlands

GJ G. van Hellemondt  
Department of Orthopaedics, Sint Maartenskliniek, PO Box 9011 6500 GM Nijmegen, 't He Netherlands

Ramiro Vargas  
Centre Orthopédique Santy,  
24 Av Paul Santy, 69008 Lyon, France

Florence Unno-Veith  
Clinique et polyclinique d'orthopédie de l'appareil moteur

Hôpital universitaire de Genève  
24, rue Micheli-du-Crest  
1211 Genève 14  
Suisse

Rene Verdonk  
Knee Surgery & Sports Traumatology  
Department of Orthopaedic Surgery  
Ghent University Hospital  
Belgium

Peter Verdonk  
Knee Surgery & Sports Traumatology  
Department of Orthopaedic Surgery  
Ghent University Hospital and Stedelijk Ziekenhuis Roeselare Belgium

Jan Victor  
Orthopaedic Department, A.Z. St-Lucas,  
St-Lucaslaan 29, 8310 Brugge, Belgium

Coen A. Wijdicks  
Biomechanics Research Department  
Steadman Philippon Resarch Institute  
181 West Meadow Drive,  
Suite 1000 Vail, CO 81657, USA

Philippe Wilmes  
Department of Orthopaedic and Trauma Surgery, Centre for Sports and Preventive Medicine, Centre Hospitalier de Luxembourg-Clinique d'Eich, 78, rte. d'Eich, L-1460 Luxembourg

H. Windhagen  
Orthopaedic Department  
Hannover Medical School  
Anna-von-Borries-Str. 1-7  
30625 Hannover  
Germany

Andy Williams  
Department of Orthopaedic Surgery, Chelsea and Westminster Hospital,  
369 Fulham Road,  
London SW10 9NH

Glenn N. Williams  
Graduate Program in Physical Therapy and Rehabilitation Science, Medical Education Building, University of Iowa, Iowa

Rick W. Wright  
Washington University Department of Orthopaedic Surgery,  
St. Louis, MO
Thomas Y. Wu  
Department of Orthopaedic Surgery,  
Ventura County Medical Center,  
Ventura, California, USA

Ate B. Wymenga  
Department of Orthopaedics, Sint Maartenskliniek, PO Box 9011 6500 GM Nijmegen,  
The Netherlands

Kazunori Yasuda  
Department of Sports Medicine and Joint Reconstruction Surgery, Hokkaido University School of Medicine, Sapporo,  
Japan

Stefano Zaffagnini  
Department of Orthopedic and Sports Trauma,  
Rizzoli Orthopaedic Institute, Bologna,  
Italy

Rachad Zayni  
Centre Orthopédique Santy  
24 Av Paul Santy  
69008 Lyon, France

Bohdanna T. Zazulak  
DPT, MS, OCS  
Yale New Haven Hospital  
Department of Orthopaedics and Rehabilitation  
20 York Street  
New Haven, Connecticut 06510, USA  
Yale University School of Medicine  
Department of Orthopaedics  
Yale Physician’s Building  
800 Howard Avenue  
New Haven, Connecticut 06510, USA

Sébastien Zilber  
University Paris XII APHP-Hôpital Henri Mondor, 94010 Créteil, France