Final Programme

#ICRSFOCUSMEETING

France
NICE
April 27–29, 2023

FOCUS MEETING

ALLOGRAFTS & SYNTHETICS ON THE FRONTSTAGE

ICRS
International Cartilage Regeneration & Joint Preservation Society

www.cartilage.org

FDA-APPROVED AUTOLOGOUS TREATMENT FOR THE REPAIR OF SYMPTOMATIC KNEE CARTILAGE DEFECTS IN ADULTS

maci®

autologous cultured chondrocytes on porcine collagen membrane

Active cells help restore active patients

MACI is autologous chondrocyte implantation, simplified. Repair knee cartilage damage using a patient's own cells in fewer steps than traditional ACI. A significantly greater proportion of patients treated with MACI experienced clinically meaningful improvements in both pain and function at 2 years when compared to microfracture.[1]

INDICATION

MACI® (autologous cultured chondrocytes on porcine collagen membrane) is an autologous cellularized scaffold product that is indicated for the repair of single or multiple symptomatic, full-thickness cartilage defects of the knee, with or without bone involvement in adults.

Limitations of Use

Effectiveness of MACI in joints other than the knee has not been established.

Safety and effectiveness of MACI in patients over the age of 55 years have not been established.

For more information, please see Brief Summary of Prescribing Information on next page, or visit MACI.com

1. Saris D, Price A, Widuchowski W, et al. for the SUMMIT study group. Matrix-applied characterized autologous cultured chondrocytes versus microfracture: two-year follow-up of a prospective randomized trial. *Am J Sports Med.* 2014;42:1384-1394.

MACI®, Vericel®, and the Vericel logo are registered trademarks of Vericel Corporation. ©2022 Vericel Corporation. All rights reserved. PP.US.MAC.0758 v2.0

VERICEL

IMPORTANT SAFETY INFORMATION

MACI is contraindicated in patients with a known history of hypersensitivity to gentamicin, other aminoglycosides, or products of porcine or bovine origin. MACI is also contraindicated for patients with severe osteoarthritis of the knee, inflammatory arthritis, inflammatory joint disease, or uncorrected congenital blood coagulation disorders. MACI is also not indicated for use in patients who have undergone prior knee surgery in the past 6 months, excluding surgery to procure a biopsy or a concomitant procedure to prepare the knee for a MACI implant.

MACI is contraindicated in patients who are unable to follow a physician-prescribed post-surgical rehabilitation program.

The safety of MACI in patients with malignancy in the area of cartilage biopsy or implant is unknown. Expansion of present malignant or dysplastic cells during the culturing process or implantation is possible.

Patients undergoing procedures associated with MACI are not routinely tested for transmissible infectious diseases. A cartilage biopsy and MACI implant may carry the risk of transmitting infectious diseases to healthcare providers handling the tissue. Universal precautions should be employed when handling the biopsy samples and the MACI product.

Final sterility test results are not available at the time of shipping. In the case of positive sterility results, health care provider(s) will be contacted.

To create a favorable environment for healing, concomitant pathologies that include meniscal pathology, cruciate ligament instability and joint misalignment, must be addressed prior to or concurrent with the implantation of MACI.

Local treatment guidelines regarding the use of thromboprophylaxis and antibiotic prophylaxis around orthopaedic surgery should be followed. Use in patients with local inflammations or active infections in the bone, joint, and surrounding soft tissue should be temporarily deferred until documented recovery.

The MACI implant is not recommended during pregnancy. For implantations post-pregnancy, the safety of breast feeding to infant has not been determined.

Use of MACI in pediatric patients (younger than 18 years of age) or patients over 65 years of age has not been established.

The most frequently occurring adverse reactions reported for MACI (≥5%) were arthralgia, tendonitis, back pain, joint swelling, and joint effusion.

Serious adverse reactions reported for MACI were arthralgia, cartilage injury, meniscus injury, treatment failure, and osteoarthritis.

WELCOME TO NICE

Dear Friends & Colleagues,

Cartilage treatment has evolved over the latter years, diagnostics, imaging and staging have increasingly been involved. Cartilage healing has become more documented as techniques have become more precise and case sensitive. The ICRS Nice Focus meeting will bring it all, from diagnostics to imaging to conservative and surgical treatments including biology. As the knee is an "organ" other issues like menisci and alignment will be part of this highly focused meeting supported by all partners.

It is an opportunity for you to join those short days if you want to upgrade and update your knowledge for the better treatment of our patients. In addition the programme focuses on the relationship between menisci and cartilage in the load bearing joint bringing long term results in meniscal allograft transplantation. This ICRS Focus meeting will also discuss the latest on bone and ligament allografts and alternatives.

Cartilage repair issues will be confronted with scaffolds (proteins and polysaccharides) and synthetic scaffolds and the hydrogels as well as native biological scaffolds and synthetic polymeric materials. Many issues generating long term experience versus new approaches will make this an eventful meeting allowing for experts and friends to meet looking at future options in cartilage treatment possibilities.

Fabio Sciarretta & Rene Verdonk, Course Chairs

Dowload the ICRS Society & Congress App

Be part of the ICRS community, during and beyond our events. Stay informed by receiving all the last ICRS news as notifications. Engage in chats and forums. Download the society app, install the different ICRS events and activate the push notifications.

Download on the App Store

GET IT ON Google Play

ICRS International Cartilage Regeneration & Joint Preservation Society

2023

17TH WORLD CONGRESS

SITGES - BARCELONA | SPAIN

SEPTEMBER 9 - 12, 2023

EARLY BIRD REGISTRATION
DEADLINE MAY 30, 2023

WWW.CARTILAGE.ORG

ACKNOWLEDGMENT

The ICRS acknowledges the following Industry Partners for their generous and continued support.

Diamond Partners

JRF ORTHO

VERICEL

Platinum Sponsor

CartiHeal

Gold Sponsors

Arthrex

contura

Silver Sponsors

Geistlich

meidrix

ORTEQ

Exhibitors

ANIKA

Arthrex

contura

Geistlich

Finceramica

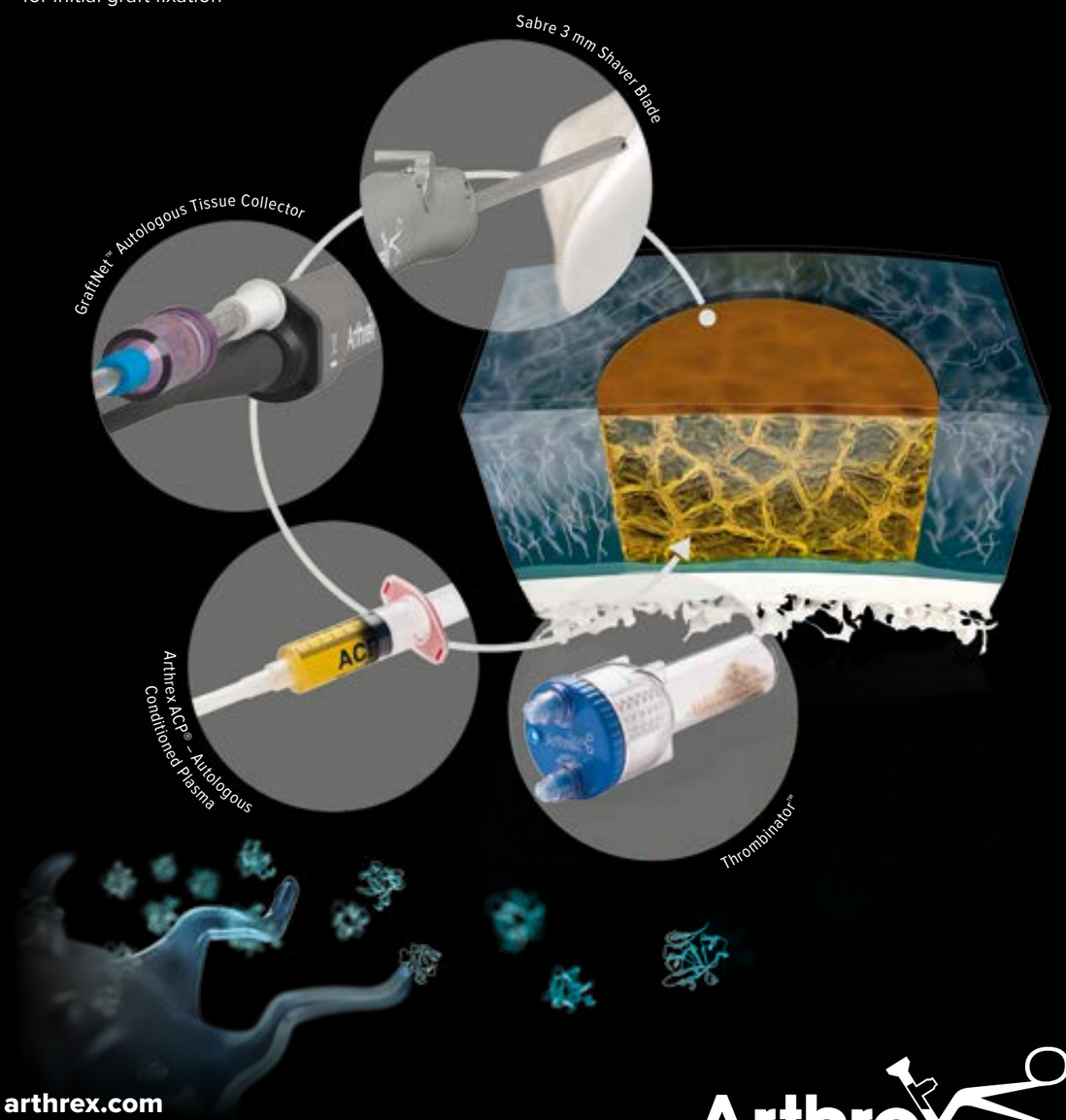
meidrix

ORTEQ

AutoCart™

All Autologous Cartilage Regeneration

- Autologous cartilage particulate – harvested and reimplanted in a 1-step procedure
- Platelet-rich plasma – for better ingrowth support
- Autologous thrombin solution – for initial graft fixation



arthrex.com

© Arthrex GmbH, 2021. All rights reserved.

Arthrex®

AD2-000132-en-US_F

Course Chairs
Fabio V. Sciarretta, Rome, Italy
René Verdonk, Gent, Belgium

ICRS Executive Board
President – Kon Elizaveta (IT)
1st Vice President – Grande Daniel (US)
2nd Vice President – Lattermann Christian (US)
Secretary General – Malda Jos (NL)
Treasurer – Marlovits Stefan (AT)
Past President – Minas Tom (US)

Course Organising Office
Cartilage Executive Office GmbH
Spitalstrasse 190A
8623 Wetzikon Switzerland
Phone +41 44 503 73 70
Email: office@cartilage.org

Course Venue
Hotel Radisson Blu
223 Promenade Des Anglais
FR-06200 Nice, France
Phone +33 4 9717 7177
Website: https://www.radissonhotels.com/en-us/hotels/radisson-blu-nice

Faculty & Course Dinner (100 EUR)
Restaurant La Galet
3 Promenade des Anglais, 06000 Nice

International Faculty
Abazovic Dzihan (SR)
Beyzadeoglu Tashin (TR)
Biant Leela (UK)
Bugbee William (US)
Condello Vincenzo (IT)
Cucchiarini Magalo (DE)
Cugat Ramon (ES)
De Girolamo Laura (IT)
De Ruijter Mylene (NL)
Erggelet Christoph (CH)
Gelinsky Michael (DE)
Gigante Antonio (IT)
Gobbi Alberto (IT)
Grande Daniel (US)
Guicheux Jerome (FR)
Hangody Laszlo (HU)
Hatton Paul (UK)
Iosifidis Michael (GR)
Karperien Marcel (NL)
Kon Elizaveta (IT)
Kückelmann Stephan (DE)
Kyriakidis Theofylatos (BE)
Lane John (US)
Laver Lior (UK)
Madry Henning (DE)
Maffulli Nicola (UK)
Marlovits Stefano (AT)
McDermott Ian (UK)
McNicholas Mike (UK)
Monllau Joan (ES)
Nehrer Stefan (AT)
O'Brien Fergal (IE)
Rönnblad Erik (SE)
Saris Daniel (US)
Sas Kristof (BE)
Sciarretta Fabio (IT)
Siebold Rainer (DE)
Skarpas George (GR)
Smith Nick (UK)
Steinwachs Matthias (CH)
Tandogan Reha (TR)
Terzidis Ioannis (GR)
Verdonk Peter (BE)
Verdonk Rene (BE)
Vonk Lucienne (SE)
Zaffagnini Stefano (IT)

Advancing Science & Education of the Prevention & Treatment of Cartilage Disease Worldwide

LEADING REGENERATION

Geistlich

Protection is key.

Chondro-Gide® protects the repair site from mechanical shear forces in the joint[1]

www.geistlich-ortho.com

swiss made

1 De Girolamo, L. et al., J. Clin. Med. 2019, 8(3), 392

Thursday, April 27, 2023

10:00–18:00 Registration & Badge Pick-Up

13:00–13:15 Welcome Address
Sciarretta Fabio (IT), Verdonk Rene (BE)

13:15–15:15 Session 1: Meniscal Allografts on the Frontstage
Moderators: Verdonk Rene (BE), Monllau Joan (ES)

13:15–13:25 1.1 Indications for Meniscal Allografts – Monllau Joan (ES)
13:25–13:35 1.2 Knee Morphotiping will Change the Indications – Verdonk Peter (BE)
13:35–13:45 1.3 Meniscal Allografts: From New Indications Back to Sport Success – Smith Nick (UK)
13:45–13:55 1.4 Meniscal Allografts with Bone Blocks – Monllau Joan (ES)
13:55–14:05 1.5 Meniscal Allografts without Bone Blocks – Verdonk Peter (BE)
14:05–14:15 1.6 Meniscal Transplant: Substitution with Semitendinosus Tendon Autograft – Rönnblad Erik (SE)
14:15–14:25 1.7 Meniscal Allografts & Osteotomies: Do they deserve the Frontstage? – Siebold Rainer (DE)
14:25–14:35 1.8 Nusurface – Condello Vincenzo (IT)
14:35–14:45 1.9 Collagen Meniscus Implants – Zaffagnini Stefano (IT)
14:45–14:55 1.10 Polyurethane Meniscal Implants – Verdonk Rene (BE)
14:55–15:15 1.11 Discussion

15:15–16:00 Session 2: MEFISTO - A European Union Project
Moderators: Kon Elizaveta (IT), Verdonk Peter (BE)

15:15–15:25 2.1 MEFISTO: Preventing Post-Meniscectomy OA – Kon Elizaveta (IT)
15:25–15:35 2.2 MEFISTO Technology – De Ruijter Mylene (NL)
15:35–15:45 2.3 Can we Predict the Post-Meniscectomy OA? – Verdonk Peter (BE)
15:45–16:00 2.4 Discussion

16:00–16:45 Coffee Break / Exhibition

16:45 - 18:30 Session 3: Bone Allografts on The Frontstage
Moderators: Grande Daniel (US), Madry Henning (DE)

16:45–16:55 3.1 Synthetic Bone Grafts Overview – Vonk Lucienne (SE)
16:55–17:05 3.2 Signalling Proteins – Madry Henning (DE)
17:05–17:15 3.3 Collagen – O'Brien Fergal (IE)
17:15–17:25 3.4 Demineralised Cancellous Bone – Terzidis Ioannis (GR)
17:25–17:35 3.5 Tissue Forming Cells – Grande Daniel (US)
17:35–17:45 3.6 Osteochondral Allografts (Pre-Recorded) – Bugbee William (US)
17:45–17:55 3.7 Custom Allografts – Hangody Laszlo (HU)
17:55–18:05 3.8 Living Allograft Tissue: Future Opportunities – Saris Daniel BF (US)
18:05–18:30 3.9 Discussion

18:30–19:45 Welcome Reception (Radisson Blu Hotel Roof Top Terrace)

Under the Patronage of ESSKA

ISAKOS APPROVED COURSE

Friday, April 28, 2023

08:30–09:45 Session 4: Soft Tissue Allografts for Ligament Reconstruction
Moderators: Zaffagnini Stefano (IT), Verdonk Rene (BE)

08:30–08:40 4.1 Achilles Tendon Allograft for ACL Reconstruction – Zaffagnini Stefano (IT)
08:40–08:50 4.2 Bone Patellar Bone Tendon Allograft for ACL Reconstruction – Tandogan Reha (TR)
08:50–09:00 4.3 Quadriceps Tendon Allograft for ACL Reconstruction – Lane John (US)
09:00–09:10 4.4 Quadrupled Hamstring Allografts for ACL Reconstruction – Iosifidis Michael (GR)
09:10–09:20 4.5 Xenografts – Cugat Bertomeu Ramón (ES)
09:20–09:30 4.6 Tibialis Tendons Allografts – Verdonk Rene (BE)
09:30–09:45 4.7 Discussion

09:45–10:55 Session 5: "Off the Shelf" Allografts for Cartilage Repair
Moderators: Hangody Laszlo (HU), Lane John (US)

09:45–09:55 5.1 Viable Osteochondral Allograft (Cartiform) – Saris Daniel BF (US)
09:55–10:05 5.2 Tissue-Engineered Allogeneic Osteochondral Graft (EB-OC) – Fortier Lisa (US)
10:05–10:15 5.3 Decellularized Osteochondral Allograft (Chondrofix) (Pre-Recorded) – Bugbee William (US)
10:15–10:25 5.4 Extracellular Matrix Allograft (Biocartilage) – Fortier Lisa (US)
10:25–10:35 5.5 Particulated Juvenile Allograft (Denovo NT) – Lane John (US)
10:35–10:55 5.6 Discussion

10:55–11:25 Coffee Break / Exhibition

11:25–13:00 Session 6: Scaffolds for Cartilage Repair: Proteins & Polisaccarides
Moderators: Sciarretta Fabio (IT), Biant Leela (UK)

11:25–11:35 6.1 Chondro-Gide Collagen Membrane – Steinwachs Matthias (CH)
11:35–11:45 6.2 Biocollagen Scaffold (Merg) – Gigante Antonio Pompilio (IT)
11:45–11:55 6.3 Hyaluronic Acid Scaffold (Hyalofast) – Sciarretta Fabio (IT)
11:55–12:05 6.4 Tri-Phasic Collagen – HA Biomimetic Scaffolds (Maioregen) – Zaffagnini Stefano (IT)
12:05–12:15 6.5 ACI Collagen Gel Scaffold (Cares) – Nehrer Stefan (AT)
12:15–12:25 6.6 ACI Cell-free Collagen Scaffold (Cartimaix) – Biant Leela (UK)
12:25–12:35 6.7 ACI 3D Biphasic Collagen Scaffold (Novocart 3D) – Marlovits Stefan (AT)
12:35–12:45 6.8 ACI Algarose Alginate Scaffold – Verdonk Peter (BE)
12:45–13:00 6.9 Discussion

13:00–14:00 Lunch Break (Le 223 Restaurant, lobby level)

14:00–15:50 Session 7: Scaffolds for Cartilage Repair: Synthetic Scaffolds & Hydrogels
Moderators: Erggelet Christoph (CH), Sciarretta Fabio (IT)

14:00–14:10 7.1 Polyglycolic Acid / Hyaluronic Acid Sponge (Chondrotissue) – McDermott Ian (UK)
14:10–14:20 7.2 ACI 3D Bioresorbable Gel-polymer Scaffold (Bioseed-c) – Erggelet Christoph (CH)
14:20–14:30 7.3 Inorganic Calcium Carbonate Scaffold (Agili-C™) – Kon Elizaveta (IT)
14:30–14:40 7.4 Cartilage Like Polymer (Cartiva) – Sciarretta Fabio (IT)
14:40–14:50 7.5 Acellular Collagen Injectable Hydrogel (Chondrofiller) – Kückelmann Stephan (DE)
14:50–15:00 7.6 Atelocollagen Injectable Hydrogel (Cartifill) – McNicholas Mike (UK)
15:00–15:10 7.7 Chitosan Soluble Liquid Scaffold (BST Cargel) – Steinwachs Matthias (CH)
15:10–15:20 7.8 Chitosan Thermogel Polymer Injectable Hydrogel (Jointrep) – Laver Lior (UK)
15:20–15:50 7.9 Discussion

15:50–16:20 Coffee Break / Exhibition

16:20–18:00 Session 8: Synthetic Polimeric Materials for Cartilage Repair
Moderators: Grande Daniel (US), Verdonk Rene (BE)

16:20–16:30 8.1 (PGA) Glycolic Acid – Maffulli Nicola (UK)
16:30–16:40 8.2 Bioglass – Hatton Paul (UK)
16:40–16:50 8.3 Chitosan – Gelinsky Michael (DE)
16:50–17:00 8.4 Nanomaterials – Guicheux Jerome (FR)
17:00–17:10 8.5 Biomimetic Materials – O'Brien Fergal (IE)
17:10–17:20 8.6 (PLGA) Polylactic-co-glycolic Acid – Grande Daniel (US)
17:20–17:30 8.7 (PCL) Polycaprolactone – De Ruijter Mylene (NL)
17:30–17:40 8.8 Composite Materials – Karperien Marcel (NL)
17:40–18:00 8.9 Discussion

19:00–23:00 Faculty / Course Dinner at Restaurant Le Galet

Saturday, April 29, 2023

09:00–10:15 Session 9: Native Biological Scaffolds for Cartilage Repair
Moderators: Cucchiarini Magali (DE), Vonk Lucienne (SE)

09:00–09:10 9.1 Fibrin Scaffolds – Abazovic Dzihan (ME)
09:10–09:20 9.2 Platelet Rich Fibrin Sealant (Vivostat) – Beyzadeoglu Tahsin (TR)
09:20–09:30 9.3 Nanocellulose-Alginate Scaffolds – Vonk Lucienne (SE)
09:30–09:40 9.4 Hyaluronic Acid Scaffolds – De Ruijter Mylene (NL)
09:40–09:50 9.5 Alginate – Cucchiarini Magali (DE)
09:50–10:00 9.6 ADSCs In Natural Gel Scaffold (Chondroseal) – Skarpas George (GR)
10:00–10:15 9.7 Discussion

10:15–10:45 Coffee Break / Exhibition

10:45–12:00 Session 10: Injectables - Alternatives to Implants
Moderators: Kon Elizaveta (IT), Kyriakidis Theofylaktos (BE)

10:45–10:55 10.1 Non Biodegradable Hydrogel Injection – McNicholas Mike (UK)
10:55–11:05 10.2 Adipose Culture-Expanded Cells Transplantation – Kyriakidis Theofylaktos (BE)
11:05–11:15 10.3 Can we preserve the Degenerative Meniscus? – Kon Elizaveta (IT)
11:15–11:25 10.4 Athletes: Injectables or Surgery? – Sas Kristof (BE)
11:25–11:35 10.5 OA Injectables or Implants? Use of PRP – Cugat Bertomeu Ramón (ES)
11:35–11:45 10.6 OA Injectables or Implants? Use of BMAC – Gobbi Alberto (IT)
11:45–12:00 10.7 Discussion

12:00–13:00 Session 11: Do We Have a Consensus?
Moderators: Laver Lior (UK), Gobbi Alberto (IT)

12:00–12:10 11.1 ORBIT – ESSKA Consensus – De Girolamo Laura (IT)
12:10–12:20 11.2 ICRS – ESSKA – RAND Consensus – Sas Kristof (BE)
12:20–12:30 11.3 ESSKA Allograft Consensus – Verdonk Peter (BE)
12:30–12:40 11.4 ICRS Consensus on Scaffolds – Kon Elizaveta (IT)
12:40–13:00 11.5 Discussion

13:00 Focus Meeting Adjourns

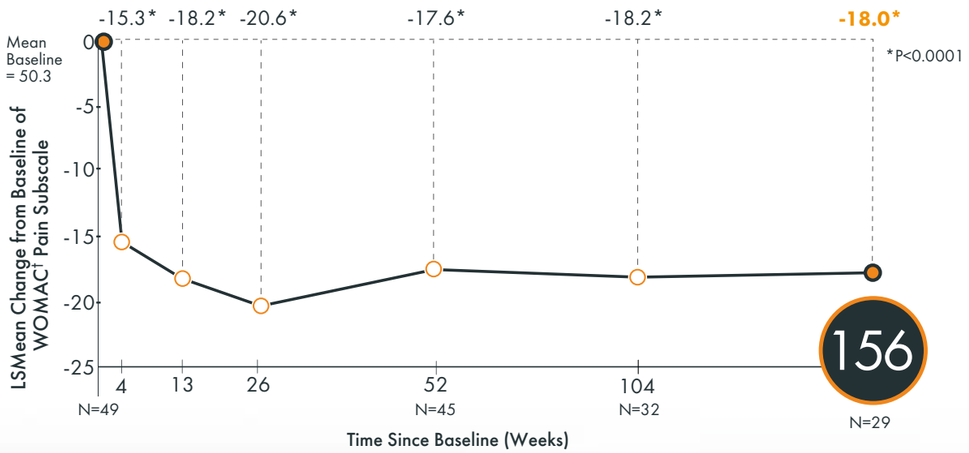
ARTHROSAMID®
by contura ORTHOPAEDICS

Introducing Arthrosamid®— a new class of injectable therapy to treat knee OA

Safe and sustained pain relief with a single injection[1]

Polyacrylamide Hydrogel (iPAAG) injection for knee osteoarthritis

A 156 week prospective study (IDA 3 years) [2]



† WOMAC or The Western Ontario and McMaster Universities Osteoarthritis Index is a measure of symptoms and physical disability. LSMeans are modelled/estimated means. The estimated means are using data from the other visits and also the covariates.

For full details about warnings and precautions read the IFU. For more information and the IFU please visit www.arthrosamid.com or contact us at enquiries@arthrosamid.com

@ConturaLtd Contura-Orthopaedics-Ltd Contura Orthopaedics Ltd

www.arthrosamid.com

References: 1. Bliddal, H., *et al.* (2021). Polyacrylamide Hydrogel Injection for Knee Osteoarthritis: A 6 Months Prospective Study. *J Orthop Res Ther.* Vol 6(2). 1188. ISSN 2575-8241; **2.** Henriksen, M., *et al.* (2023) 3 Year Results From a Prospective Study of Polyacrylamide Hydrogel for Knee Osteoarthritis. Poster 483 presented at OARSI 2023.

SCAN ME

See our latest data and read about our patient experiences

Abazovic Dzihan, MD
Ulcinj, Montenegro

Dzihan Abazovic is an emergency medicine specialist. He graduated from the University of Belgrade Medical Faculty in 2007. After graduation, he got a fellowship and opportunity to work with Prof Dr Rui Fernando Pilotto at Hospital das Clinicas in Brazil, where they worked in clinical genetics and intercellular signalling. The following year, Dr Abazovic started a fellowship in the Netherlands and, in collaboration with Dr Peter Everts, gained valuable knowledge in blood management. During residency, Dr Abazovic did a fellowship at the Clinical Centre of Serbia, Belgrade. After he got a license to practice emergency medicine and traumatology, he started his clinical practice in Ulcinj, Montenegro and Belgrade, Serbia. He was also a chef of the emergency medicine department in the Emergency Medicine Centre of Montenegro in Ulcinj (2013-2018). Since 2010 Dr Abazovic has worked on a project at the Institute for Biochemistry and Molecular Biology. Along with his colleagues Dr Abazovic was the first doctor in Serbia who introduce regenerative medicine in clinical practice. Research of stem cell and blood derivatives in orthopaedics is one of his most significant interests. He introduced a novel technique for treating different pathologies with his orthopaedic team. Nowadays, Dr Abazovic holds lectures and training courses in the most reputable world centres in orthopaedic.

Beyzadeoglu Tahsin, Prof.
Halic University & Beyzadeoglu Clinic Orthopaedics&Traumatology Istanbul, Turkey

Tahsin Beyzadeoglu was born in Bursa, Turkey in 1971. After graduating from Trakya University Faculty of Medicine in 1994, he accomplished his speciality residency at Istanbul University Cerrahpasa Faculty of Medicine, Department of Orthopaedics and Traumatology, in 2000. Between January 2001 and August 2005, he worked at Private Umut Hospital in Istanbul. Between August 2005 and September 2012, he worked at Yeditepe University Hospital Department of Orthopaedics and Traumatology and got his Associate Professorship degree. Since September 2012, he has owned an Orthopaedic practice group, Beyzadeoglu Clinic in Istanbul. He had a Professorship degree in 2013 from Halic University, Istanbul and continues giving lectures for graduate and after-graduate physiotherapy and medical faculty students. His main specialities are Sports Injuries, Arthroscopic Surgery and Hand Surgery. Beyzadeoglu has served as Head Team Physician of the Turkish Men's National Basketball Team. He has also been a member of The Executive Board of Health Committee of the Turkish Football Federation, the Turkish Basketball Federation, and the Paralympic Federation Health Committee. He consults most of the Euroleague and Turkish League basketball teams and mainly Fenerbahce Sports Club. He has 56 articles; 156 oral and poster presentations; 23 book chapter writings; and 211 conferences, panels and seminary lectures published in national and international scientific platforms.

Biant Leela, Prof., BSc(hons)
The University of Manchester Academic Trauma and Orthopaedic Surgery Manchester, United Kingdom

Leela Biant is the President of the British Association for Surgery of the Knee and the King James IV Professor, The Royal College of Surgeons of Edinburgh. She is Academic Head of Dept Trauma & Orthopaedic Surgery at University of Manchester, Honorary Consultant Trauma and Orthopaedic Surgeon, Manchester University Hospitals an is Co-Director of the regional North West Joint Preservation Service, serving a a poulation of over 7 million patients for Cartilage Repair and Regeneration. Leela trained in London and completed specialist fellowships in Sydney and London. She was Consultant Trauma and Orthopaedic Surgeon in Edinburgh for 8 years before moving to Manchester. Her thesis was entitled 'Articular Cartilage Injury and Repair in the Young Adult Knee' and her research focus includes biological regenerative surgery and advanced joint replacement. She has won multiple awards for research, and now leads a strong research team that includes academic clinicians, biomedical engineers, materials scientists and cell biologists. Leela is an elected ICRS Senior Fellow, and founded the ICRS Global patient registry. She is a Lifetime Honorary Fellow of the UK Biological Knee Society in recognition of her work in this field. She has won awards for teaching, and is a clinician advisor to NICE. She was an ABC Travelling Fellow in 2010 and BASK Travelling Fellow in 2014.

Bugbee William, Prof., MD
Scripps Clinic Medical Group Orthopaedics La Jolla, USA

Dr Bugbee is Professor in the Department of Orthopaedic Surgery at Scripps Clinic, La Jolla, California, USA He is the Joint reconstruction fellowship director He also serves as medical director of the Shiley Center for Orthopaedic Research and Education. Dr Bugbee's clinical practice is focused on the treatment of complex cartilage problems and arthritis of the knee, hip and ankle, including the use of cartilage restoration and joint preservation techniques such as osteochondral transplantation, osteotomy as well as joint replacement. Dr Bugbee's research focus related to cartilage involves pathogenesis of osteoarthritis, design innovation and outcome of joint replacement, regenerative medicine, cartilage biology, tissue engineering and both basic science and clinical outcome of osteochondral allograft transplantation and joint preservation, for which he was awarded the 2015 Kappa Delta Award.

Condello Vincenzo, MD
Clinica Humanitas Castelli Bergamo, Italy

Medical degree and residency programme in Rome University "La Sapienza" in the Orthopaedic School directed by Prof. L. Perugia. During residency under the direction of Prof. Mariani, developed scientific accuracy during research and surgical practice — Fellowship at Karolinska Institute with Per Renstrom. From Rome to Verona, several years with Dr Zorzi he improved his skills in knee surgery, cartilage repair and sports traumatology. Chief of the Cartilage Committee of Sigascot for four years, an active member of International Societies as ESSKA, ICRS, ISAKOS. Author or Co-author of papers, book chapters, and oral presentations on Sports Medicine, Cartilage repair, and knee joint replacement. Editor of an e-book published for ICRS: CartilagE-book, available on the Apple Store. Chief of Arthroscopy Committee of ESSKA leading a project on "ACL revision surgery." Clinical and Surgical activity at Humanitas – Castelli Clinic in Bergamo. Fields of interest: Sports Medicine, Cartilage Repair and Knee Joint Reconstruction.

Cucchiarini Magali, Prof., PhD
Saarland University Medical Center Center of Experimental Orthopaedics Homburg/Saar, Germany

Magali Cucchiarini, PhD, is an Associate Professor, Group Leader, and Vice-Director of the Center of Experimental Orthopaedics, Saarland University Medical Center, Homburg/Saar, Germany. She graduated from the University of Nice-Sophia Antipolis, France where she received her PhD with summa cum laude. Dr. Cucchiarini was a senior post-doctoral fellow at Harvard Medical School and worked for two years at the University Hospital Inselsspital, Bern Switzerland. Her major research interest lies in generating novel cell-, gene-, and tissue engineered-based systems to treat orthopaedic disorders. Dr. Cucchiarini made over 165 national and international presentations, co-authored 18 books chapters and edited one book (Regenerative therapy for the musculoskeletal system using recombinant adeno-associated viral vectors), and is an author of over 190 peer-reviewed articles. She sits on the Editorial Boards for OAC Open, Journal of Experimental Orthopaedics, BioMed Research International, and OJSM and serves as a reviewer for Acta Biomaterialia, AJSM, Biomaterials, Current Pharmaceutical Design, eCM, Gene Therapy, Journal of Orthopaedic Research, Molecular Therapy, Nanomedicine, Osteoarthritis Cartilage, Scientific Reports, Stem Cell Research & Therapy, Tissue Engineering. She serves as a Board Member of the OARSI, was a Board Member of the ORS and is involved at the ICRS and American Society of Gene & Cell Therapy.

Cugat Bertomeu Ramón, Dr., MD, PhD
Hospital Quiron Orthopaedic Surgery & Traumatology Barcelona, Spain

Co-Director of the Orthopaedic Surgical Department, Hospital Quiron Barcelona. President of the Board of Trustees for the Garcia Cugat Foundation for Biomedical Research, President of the medical council of the Catalonian Soccer Federation and member of medical staff of the Spanish Soccer Federation. He collaborates as Associated Professor at the Medical School at Barcelona University and UIC. Director of the Garcia Cugat Foundation Chair at the CEU-Cardenal Herrera University on Regenerative Medicine and Surgery. Active member of the Royal European Academy of Doctors and other Institutions.

De Girolamo Laura, Dr., PhD
IRCCS Galeazzi Orthopaedic Institute Orthopaedic Biotechnology Laboratory Milano, Italy

Laura de Girolamo, PhD was born and grew up in Italy, where she received her MSc in Biology and PhD from the University of Milan. She got her post-doctoral training between the Galeazzi Orthopaedic Institute and other international centres, including Brigham and Women's Hospital – Harvard University of Boston. She is currently the Director of the Orthopaedic Biotechnology Laboratory of the Galeazzi Orthopaedic Institute in Milan and the platform RE.GA.IN® Regenerative Galeazzi Institute). Dr. de Girolamo's laboratory aims to derive biological solutions to promote cartilage, tendon and bone regeneration by improving the activity and clinical therapeutic potential of MSCs. She served as PI or co-PI in several research projects collaborating with national and international research centres. She is the author of over 100 peer-reviewed papers and ten book chapters in orthopedics and regenerative medicine. She has been an invited speaker at several national and international congresses and courses. She is co-leading the European Society of Sports Traumatology Knee Surgery and Arthroscopy (ESSKA) Orthobiologics Initiative. Since 2016 she has been Chairwoman of the Research Committee of the Italian Knee Surgery Arthroscopy Sports and Cartilage Society (SIAGASCOT). She was co-founder of the Italian Mesenchymal Stem Cell Group (GISM) and is currently a member of the Executive Committee. She is an associate editor of the Journal of Experimental Orthopaedics.

De Ruijter Mylene, Dr., PhD
UMC Utrecht Orthopedics Utrecht, Netherlands

Mylène de Ruijter works at the University Medical Centre (UMC) in Utrecht on biofabrication of the osteochondral unit. She is an early career researcher and obtained her PhD (cum laude) in 2020, which was also awarded the Anna fonds Thesis prize within the orthopedic field. During her PhD Mylene pioneered the MEW technology and its convergence with the printing of hydrogel materials. She was one of the main drivers behind the experiments that show that a combination of a reinforced hydrogel and a cell-free regenerative hydrogel could lead to a stable filling of osteochondral defects in vivo and further translates this to patient-specific implants. Mylene has authored multiple publications, was involved in a patent application, has presented at multiple international conferences, and was recently awarded national grant applications. Additionally, she is actively involved in public engagement, teaching and supervision of students (with levels ranging from elementary school to PhD level).

Erggelet Christoph, Prof., MD, PhD
Alphaclinic Orthopaedics Zürich, Switzerland

Christoph Erggelet is an orthopaedic surgeon in Zurich/Switzerland, affiliated with the Department for Orthopaedic Surgery and Traumatology, University Medical Center, University of Freiburg/Germany. He received his MD in 1986 and passed the board exam for Orthopaedic Surgery in 1993. A PhD was granted by the University of Essen/Germany in 1987. Since 2002 he has been a faculty member of the University Medical School, University of Freiburg, Germany. Research interests focus on the biologic regeneration of joint function, e.g. culture of autologous chondrocytes, meniscus regeneration and ligament repair. He served as a founding board member of the Bio Valley initiative, a tri-national tissue engineering group, which enabled the setup of a licenced GMP laboratory at the University of Freiburg. International collaborations included board membership of the EU-funded EUROCELL program and the international Cartilage Repair Registry. Recent research has been done on the stress loading of cartilage defects and the stability of biodegradable scaffolds in collaboration with the Swiss Federal Institute of Technology Zurich/Switzerland. Christoph Erggelet has been a member of ICRS since its foundation in 1997 and has served as a board member. He was President of ICRS for the term office 2013-2015.

Fortier Lisa, Prof., DVM, PhD, DACVS
Cornell University Clinical Sciences Ithaca, USA

Lisa A. Fortier is a Professor of Surgery at Cornell University in Ithaca, NY. She received her DVM from Colorado State University and completed her PhD and surgical residency training at Cornell University. She is boarded with the American College of Veterinary Surgeons. She practices equine orthopedic surgery at Cornell University in Ithaca, New York and the Cornell Ruffian Equine Specialists in Elmont, New York. Her laboratory is particularly interested in translational research, including preventing post-traumatic osteoarthritis. In addition, Lisa's research program investigates the clinical application of stem cells and biologics such as platelet-rich plasma and bone marrow concentrate for cartilage repair and tendonosis. She has received the Jaques Lemans Award from the International Cartilage Repair Society, the New Investigator Research Award from the Orthopaedic Research Society, and the Pfizer Research Award for Research Excellence from Cornell University. Lisa is the Vice President of the International Veterinary Regenerative Medicine Society, Past President of the International Cartilage Repair Society, Associate Chair for Graduate Education and Research, and Director of Equine Programs at Cornell University.

Gelinsky Michael, Prof., PhD
TU Dresden Centre for Translational Bone, Joint and Soft Tissue Research Dresden, Germany

Michael Gelinsky received his PhD in Chemistry from Freiburg University (Germany). In 1999 he moved to Dresden University of Technology (TU Dresden) and worked for around 10 years at the Department of Materials Science, heading his own group at the newly founded Max Bergmann Center of Biomaterials from 2002. In 2010 he was appointed Full Professor at the Faculty of Medi-cine and head of the Centre for Translational Bone, Joint and Soft Tissue Research (tu-dresden.de/med/tfo) at TU Dresden. His work is focused on biomaterials and scaffold develop-ment, tissue engineering and regenerative therapies, mostly for musculoskeletal tissues like bone, cartilage, and the osteochondral unit. His group is also very active in the field of additive manufac-turing of implants and biofabrication technologies, including bioprinting of non-mammalian cells ("green bioprinting"). He is author/co-author of more than 250 journal publications and 25 book chapters. At present, Michael Gelinsky is President of the German Society for Biomaterials (DGBM) and is a member of the Board of Directors of the International Society for Biofabrication (ISBF). In 2020 he was elected as 'Fellow Biomaterials Science and Engineering' (FBSE) by the International Union of Societies for Biomaterials Science and Engineering.

Gigante Antonio Pompilio, Prof.
Clinica Ortopedica Universita Politecnica delle Marche Patologia Molecolare e Terapie Innovative Ancona, Italy

Prof. Antonio Gigante graduated from the Traumatology Polytechnic University of Marche – Ancona – Italy. Chair of Adult and Pediatric Orthopaedics at Azienda Ospedaliero Universitaria of Marche – Ancona – Italy. He performed more than 4.000 surgical procedures as the first operator. Award at 7th Intermeeting of International Research (SIROT), Boston october 27-30, 1994: Gigante A. et al.: "Histochemical, immunohistochemical and ultrastructural analysis of the healing process in chondral homografts."Award for the best research at the 80th Congress of the Italian Orthopaedic and Traumatology Society (SIOT)(Rome November 12-15, 1995). "Jaques Duparc Award", at the 7 Congress EFFORT, Lisbon, June 4-7 2005, bets research: " Effect of blood on engineered cartilage." Clinical fields of interest: knee and shoulder surgery, arthroscopy, sports traumatology, pediatric orthopaedics. Research: articular cartilage, growth plate, growth factors, biomaterials Member of the Italian Orthopaedic and Traumatology Society (SIOT), European and Italian Orthopaedic Research Society (EORS and IORS- past President); European Society of Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA), Italian Society of Biomaterials (SIB), Italian Arthroscopy Society (SIA), International Patellofemoral study group; Accademia Universitaria di Ortopedia e Traumatologia (AUOT).

Gobbi Alberto, Dr., MD
Orthopaedic Arthroscopic Surgery International Sport and Medicine Milano, Italy

Alberto Gobbi graduated in 1983 and completed his residency program in 1988 in Orthopaedic surgery at Milan University and Sports Medicine in Genova in 1992. Dr Gobbi was an athlete at the national level and served the Italian National Olympic Committee for the World Motocross Championship, African Rallies, offshore boat racing, downhill skiing, volley and basketball. He was nominated "azzurro d'Italia" in 1998. His participation in high-risk sports led him to focus on trauma, surgical technique and advanced rehabilitation. He became a point of reference for many international athletes. He worked with many prominent international experts in orthopaedic surgery, arthroscopy and regenerative medicine for several years, now considered the Giants. He was among the first Europeans to join the International Cartilage Repair Society. In 1996 he became an international member of the AAOS and then an Honorary Member of AANA. Since then, he has collaborated with the most important scientific societies, including ISAKOS and ESSKA. Dr Gobbi pioneers research on biological therapies for orthopaedic injuries, establishing an international reputation in regenerative medicine and developing advanced surgical techniques using mesenchymal stem cells and growth factors.

He performs highly qualified scientific, surgical and educational activities at an international level. He served as a reviewer for many journals and has been Associate Editor of "Cartilage" since 2010, and in 2012 he received the award for Best International Publication in an American Journal. In 2011 he was acknowledged as a Visiting Professor at Kobe & Osaka University, Japan. In 2014, he was nominated Visiting Professor in the Department of Orthopaedic Surgery, directed by Prof. D. Amiel at the University of California San Diego. In 2018 he received a certificate of appreciation from Yonsei University Korea. He was nominated Honorary professor at the University of Peking and the NUS National University of Singapore, where he also delivered the VK Pillay Lecturer.

He founded OASI Bioresearch Foundation Gobbi Onlus (NPO), recognized as an International Teaching Center by ISAKOS and ICRS. He has dedicated his time to teaching hundreds of fellows during the last 20 years. He has published over 200 scientific papers in international peer-reviewed journals, edited several books and contributed many chapters in scientific publications. He currently serves on the board of directors of ISAKOS, and is the ICRS Past President (2018-2019).

Grande Daniel, Prof., PhD
Northwell Health North Shore-Long Island Manhasset, USA

Daniel Grande is associate investigator and director of orthopaedic research at the Feinstein Institute for Medical research. He is also associate professor at the newly accredited Hofstra School of Medicine. He completed his PhD at New York University and his post-doctoral fellowship ion biomechanics at the Hospital for Special Surgery. He has worked extensively in the area of regenerative medicine and tissue engineering. His early work developed the first use of cell based therapy for cartilage repair, currently known as autologus chondrocyte transplantation. He has served on committees with the Orthopaedic Research Society as spine topic chair and the basic science committee. Dr. Grande is significantly involved in mentoring and teaching of orthopaedic residents for his department. He has been a reviewer for a number of journals including: Journal of Orthopaedic Research, Clinical Orthopaedics, Osteoarthritis and Cartilage, American Journal of Sports Medicine, Nature Reviews Rheumatology and Applied Biomaterials. He has been awarded eight patents and helped found two companies in the orthopaedic surgery field of use. He has served as a member of several companies scientific advisory boards. He completed a five year rotation with OREF to assist in grant reviews. He also regularly serves on NIH study sections for RO1, R21, and SBIR/STTR grants specific to musculoskeletal applications.

Guicheux Jerome, Prof., PhD
INSERM-RMeS - University of Nantes REJOINT Nantes, France

Jérôme Guicheux (YOB 1970) has received his PhD in cell biology and health sciences in 1997 at the Nantes University School of dental medicine. He was a research associate in the internal medicine and rheumatology department of the University Medical Center of Geneva (Switzerland) from 1997 to 2001. He was finally recruited as a tenured junior research scientist by the French national institute for health and medical research (INSERM) and assigned to the Nantes University in 2001. JG has been promoted and appointed INSERM junior Research Director (DR2)/full professor in 2008 and senior Research Director (DR1)/Full professor in 2019; He is currently director of the INSERM research Centre RMES « Regenerative Medicine and Skeleton » (130 pp, INSERM UMRS 1229, Nantes, France) and the scientific director of the SC3M core facility (electron Microscopy, Microcharacterization and functional Morpho-histology and imaging) of the François Bonamy Health Federative Research Institute.

Jérôme is the national coordinator of the Inserm French network dedicated to peripheral and spine OA (netwOArk). JG is also a member of the board of directors of OARSI and Regenerate-Biospine. JG has secured more than 100 research contracts, coordinated 5 pluri-annual programs from the French national research agency (ANR) and served as coordinator and WP/task leader in several European grants from FP7, FP8 and H2020. He has authored (updated 1st April 2021) more than 215 indexed publications (ISI web of knowledge H-index 56 and total citations 8650; google scholar H-index 65, i10 index 160 and total citations 12350) and 9 patents and gave 115 invited lectures. His research focuses on the pathophysiology of osteoarthritis and disc degenerative disease and the regenerative medicine of skeletal tissues including bone, articular cartilage and intervertebral disc. JG has notably contributed to strengthen the relevance of stem cells (mesenchymal stem cells and induced pluripotent stem cells) and biomaterials (polysaccharide-based hydrogels and calcium phosphate-based bone biomaterials) for the regeneration of osteoarticular tissues.

Hangody Laszlo, Prof., MD, PhD, D.Sc.
Uzsoki Hospital Orthopedic & Trauma Department Budapest, Hungary

Laszlo Hangody graduated in 1982 from Semmelweis University and specialised in orthopaedics in 1986 and traumatology in 1988. In 1994, he defended his PhD thesis concerning cartilage repair surgery's experimental and clinical background. In the same field, with his further research and innovations, he acquired his Doctor of Sciences degree from the Hungarian Academy of Sciences. He became the Head of the Orthopedics-Traumatology Department at Uzsoki Hospital in 2001. In 2003, he habilitated at the University of Debrecen, Faculty of Medicine, and in the same year, he acquired his university private professor degree. He has contributed to the graduate and postgraduate education programs at Semmelweis University in orthopaedics and traumatology. He has continued to hold lectures for students at all four Hungarian medical universities since 1990. In 2010, he was nominated as Head of the Department of Semmelweis University Department of Traumatology and Director of Traumatology at Péterfy Sándor Hospital Traumatology Center. In 2013, as a further acknowledgement of his academic work, he was the first Hungarian musculoskeletal surgeon to become a member of the Hungarian Academy of Sciences. He has been the president of the Hungarian Orthopaedic Association and the Hungarian Arthroscopy Association. He was elected as an executive board member of several international associations, including ESSKA, ICRS and EFORT Trauma Task Force. He has participated in the editorial staff of numerous Hungarian and international journals. Hungarian associations and universities have recognised his professional career by granting him the Dollinger Award, Lumniczer Award, Markusovszky Award and Jendrassik Award. He was nominated as an honorary member of AANA, and since 2011, his department has been selected as a FIFA Medical Centre of Excellence. Other domestic achievements include Prima Award (2011), Gábor Dénes Award (2015), Szabó György Award (2016), Széchenyi Award (2017), Batthyány-Strattman Award (2017), and the Academy-Patent Award (2017). His principal innovations concerned cartilage repair and ligament surgeries, but he has reached remarkable advancements regarding implant and instrument development for knee arthroplasty. He performed extended animal trials and biomechanical studies to develop the mosaicplasty technique and introduced it in clinical practice in 1992. His collaborative research with his colleagues has led to significant innovations concerning biodegradable matrixes, ultra-fresh osteochondral allograft transplantation, and artificial intelligence-supported resurfacing techniques for damaged articular surfaces.

Hatton Paul, Prof., BSc, PhD
University of Sheffield Sheffield, United Kingdom

Paul Hatton BSc PhD FIMMM is Professor of Biomaterials Science at the University of Sheffield, where he is also Director for Research & Innovation at the Faculty of Medicine, Dentistry & Health. His expertise is in the interaction of living systems with biomaterials, primarily those used in the musculoskeletal system as medical devices or as part of regenerative therapies. He has led several national and European projects in biomaterials for musculoskeletal tissue repair, including in cartilage tissue engineering, and published widely in the field. Many of these projects included clinical and industrial collaborators, where Professor Hatton has contributed to the commercialisation of ceramic and glass technologies for clinical applications. He is also a former member of TERMIS-EU Council and past President of the UK Society for Biomaterials, and the current Chair of the Biomedical Applications Group of the Institute of Materials, Minerals & Mining (IoM3).

Iosifidis Michael, MD, PhD
OrthoBiology, Surgery Center OrthoBiology, Thessaloniki, Greece

He is an Orthopaedic Surgeon and is currently practising in private. He is the founder and head of the Orthobiology Surgery Center in Thessaloniki, Greece. He studied at the Medicine School of the Aristotelian University of Thessaloniki, where he obtained his MD in 1992 and his PhD in 2006, completing his Doctoral Thesis titled: "Elite athletes sports activity as a predisposing factor for osteoarthritis". He completed his residency training programs in Surgery and Orthopaedic Surgery Deps. in Thessaloniki, Greece, in 2000. During 2004-2005 he did a fellowship in arthroscopic surgery at Dep. of Orthopaedic Surgery and Center of Sports Medicine, DS Prof. FH Fu, and also a research fellowship in basic science research on tendons problems (tendinopathy) and anatomic ACL reconstruction at Mechanobiology Laboratory, School of Medicine and Bioengineering School, Univ. of Pittsburgh. He followed fellowships programs in arthroscopic surgery at Dep. of Orthopaedic Surgery of Hospital for Special Surgery, New York City (2007, 2008), and at TUM Univ. Klinik für Orthopädie und Sportorthopädie, Prof. Dr. A.B. Imhoff, Munich, Germany (2010). He has published in national and international journals (28 peer-reviewed articles) and book chapters (5 chapters in international publications) and presented at many national and international meetings. He is a member of the ICRS Education & Meetings Committee, a member of the ESSKA Education Committee and also a member of the ISAKOS Education Committee. He is 1st Vice President of the Greek Society of Arthroscopy Knee Surgery and Sports Injuries. In the last five years, his research is focusing on MSCs use for cartilage lesions treatment (member of the Advisory Committee of Greek Hellenic Cord Blood Bank of Biomedical Research Foundation Academy of Athens /BRFAA) and knee joint kinetics and kinematics.

Karperien Marcel, Prof., PhD
University of Twente Developmenal BioEngineering Enschede, Netherlands

He studied biology at the University of Utrecht in the Netherlands. After a PhD in developmental biology in which he studied the molecular mechanisms underlying skeletal development, he worked 12 years at the Leiden University Medical Center on various aspects of endochondral ossification. In 2007 he moved to the University of Twente, to combine developmental biology of the skeleton with technology to improve strategies for cartilage regeneration. In 2012 he founded the department of Developmental BioEngineering (DBE) and became a full professor. The Department of Developmental BioEngineering (www.utwente.nl/tnw/dbe) is part of the MIRA institute for Biomedical Technology and Technical Medicine, which is ranked as the 7th best bioengineering institute worldwide. Currently the DBE group comprises 14 PhD students. Research focuses on i) developing injectable hydrogels for cartilage repair, ii) elucidating molecular mechanism underlying chondrocyte homeostasis, iii) improving cartilage formation, iv) the role of stem cells in cartilage regeneration, and v) exploring novel technologies for improved cartilage repair strategies. Marcel Karperien is PI and participant in (inter)national projects focusing on cartilage repair including the Biomedical Materials Program, the Smartmix TeRM program, the National Initiative for Regenerative Medicine and projects funded by the Dutch Arthritis Association. More recently he started a 4mEuro National program fighting osteoarthritis by uniting 7 leading Dutch Academic groups in osteoarthritis research with 12 industrial partners co funded by the Dutch Arthritis Association and the Dutch government.

INTERNATIONAL SPEAKERS

Kon Elizaveta, Ass. Prof., MD
Humanitas University Orthopaedic Surgery Milan, Italy

Elizaveta Kon is the current International Cartilage Regeneration&Joint Preservation Society (ICRS) President. Associated Professor of Orthopaedic Surgery, Humanitas University, Milan. Orthopedic Surgeon, Chief of Translational Orthopaedics Unit, Center of Functional and Biological Reconstruction of the Knee, Humanitas Research Hospital, Milan. Director of Master Degree "Regenerative Medicine in Orthopaedics" Humanitas University, Milan. Director of Nano-Biotechnology Laboratory and Orthopedic Surgeon, Rizzoli Orthopedic Institute and Assistant Professor, University of Bologna 2013-2017. Full professor of Orthopaedic Surgery, Sechenov University, Moscow 2018-2022. Principal investigator of numerous research projects and clinical trials regarding biotechnology applications in orthopaedics into European and national research frameworks. Author of over 250 scientific articles in peer-reviewed journals (H-index 83) and over 40 chapters in orthopaedic surgery Editor of 5 Orthopaedic Surgery textbooks. Faculty of more than 400 society meetings across Europe, Asia and America. Associated Editor of International Orthopedics, Journal of Experimental Orthopedics and Joints. Reviewer for more than 20 Orthopaedics Journals. She is also the 2nd Vice President of SIAGASCOT. Past-President of the Cartilage Committee of ESSKA; Scientific Chair of ESSKA 2021 Congress; Past-President of Scientific Committee and Cartilage Committee of SIGASCOT; Past General secretary, Past-President Educational and Meeting Committee and Fellowship Scholarships and Grants Committee of ICRS. Travelling Fellow ESSKA/AOSSM European/North American Sports Medicine Traveling Fellowship, 2009 and ICRS Travelling Fellowship, North America, 2004. Winner of several awards: Biologic Association Research Award 2021; Award Cum Laude ICRS World Congress 2022, 2019, 2015 and 2013; best rated abstract ICRS World Congress 2022; most cited and most downloaded publication 2011-2016 in Arthroscopy Journal; leading article Knee Surgery Sports Traumatology Arthroscopy Journal 2013 and 2016; most cited publication 2009-2010 in American Journal of Sports Medicine; scientific exhibit award of excellence AAOS Annual Meeting 2011.

Kückelmann Stephan, Dr., MD
Diakoniewerk München-Maxvorstadt, München, Germany

Specialties: Surgery/Accident Surgery/Doctor/Chirotherapy. Professional career: 1987-1989 orthopedic surgery in London/England. 1990-1990 surgical residency in Münster/NRW. 1991-1997 further training in a maximum care hospital in Nuremberg with focus on sports injuries. 1998-1999 Senior physician orthopedics/trauma surgery in Wilhelmshaven, focus on joint surgery. 2000-2001 Senior physician in orthopedics/trauma surgery at a maximum care facility in the Erfurt Clinic.

Kyriakidis Theofylaktos, MD, MSc, PhD
Erasme University Hospital Brussels Orthopaedic Brussels, Belgium

Dr Kyriakidis graduated from the Medical School of the Aristotle University of Thessaloniki. Then he moved to Brussels, Belgium, where he received his training in Orthopaedic Surgery and Traumatology at the Free University of Brussels. He holds a Master's Degree in Orthopaedics from the same University and a Master of Science in Health Policy and Planning. He obtained his PhD from the Aristotle University of Thessaloniki for his research on cartilage repair of the knee using stem cells, which resulted in numerous scientific publications. He is a certified medical doctor in Evidenced Based Medicine from the Free University of Brussels, and he has also obtained a diploma in Good Clinical Practice. He completed a Fellowship in Knee Surgery and currently works as a consultant knee surgeon at the Erasme University Hospital of Brussels, as an academic scholar at the 2nd Orthopaedic Department of the Aristotle University of Thessaloniki, and in private practice. He has co-authored various scientific publications in reputable academic journals and book series. He keeps abreast of related research and contributes actively to the field by serving as a reviewer for well-known journals. He is a member of the following international scientific societies: ISAKOS, ICRS, ESSKA, EKA, and Small Implant Focus Group of EKA.

Lane John, Dr., MD
La Jolla, United States of America

John G. Lane, MD, is a clinician in San Diego who has a Clinical Associate Professor appointment at the University of California, San Diego, in the Department of Orthopedic Surgery. Dr Lane completed his residency at the University of Michigan and performed fellowship training in sports medicine at UCSD. Dr. Lane is a member of AAOS, AANA, AOSSM, ISAKOS and ICRS. Currently, he is a member of the education committee of the ICRS and the chair of the education committee of ISAKOS. His clinical field of practice focuses on complex knee and shoulder injuries. Dr Lane has published thirty peer-reviewed manuscripts and four book chapters. He has collaborated with Professor David Amiel at UCSD since 1989, working in the fields of ligament and cartilage. He was awarded an Orthopedic Research and Education Foundation grant for cartilage research, culminating in the publication of Effects of the Holmium: YAG Laser Upon Articular Cartilage. Other grants in the field of articular cartilage that he has participated in include NIH/SBIR grants for "Cartilage-Cartilage adhesion by Photopolymerization" and "A Novel Engineered Composite Construct for Articular Cartilage Repair. Ongoing cartilage research includes autologous chondrocyte implantation evaluation and BMAC implantation. Shoulder-related research includes collaboration with Professor Sam Ward, U.C.S.D., and participation in an NIH grant dealing with "The physiological basis of rotator cuff muscle rehabilitation." Research into rotator cuff injury and the effect of diabetes is also ongoing. An NIH grant was obtained in conjunction with Prof. C. Chung at the U.C.S.D radiology department for "UTE MRI of Tissue Response in Meniscal Repair", evaluating healing in a meniscal repair model. Dr Lane is also researching the effects of valgus unloader knee bracing upon cartilage and bone healing.

Laver Lior, Dr.
University Hospital Coventry and Warwickshire Orthopaedics Kenilworth, United Kingdom

Lior Laver, MD, is a Sports Orthopaedic surgeon, from Israel and currently based at the University Hospital Coventry & Warwickshire in Coventry, UK. Laver's main practice involves arthroscopic treatment of sports related injuries of the knee, hip and shoulder.

Madry Henning, Prof., MD
Saarland University Experimentelle Orthopaedie und Arthroseforschung Homburg, Germany

Henning Madry is a clinician-scientist, a tenured Professor and Chair of Orthopaedic Research and Director of the Center of Experimental Orthopaedics at Saarland University in Germany. Dr. Madry received his M.D. from Humboldt University, Berlin, under the mentorship of Detlev Ganten. His postdoctoral research fellowship was at Harvard Medical School in Boston, with Steven B. Trippel at the Massachusetts General Hospital and at Massachusetts Institute of Technology in Cambridge, with Gordana Vunjak-Novakovich. Dr. Madry received calls to Professorships at the Humboldt University Berlin, the University of Regensburg and the Albert-Ludwigs-University Freiburg. He is the Founding Editor-in-Chief of the Journal of Experimental Orthopaedics, the basic science journal of the European Society for Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA). As a clinically active orthopedic surgeon, he has special expertise in regenerative treatments for cartilage defects and osteoarthritis. His research program translates novel molecular, cell biology and tissue engineering approaches into clinical applications in orthopedic surgery with a focus on translational aspects of osteochondral regeneration. Henning Madry was recently a visiting professor at the Sorbonne Université Paris in France.

Maffulli Nicola, Prof., MD
Mile End Hospital Centre for Sports and Exercise Medicine London, United Kingdom

Nicola is a Professor and a Consultant Specialist Orthopaedic Surgeon at the University of Salerno School of Medicine and Surgery, in Salerno, Italy. His subspecialty interests include trauma, sports surgery, knee, foot and ankle surgery, and the management of degenerative joint disease in younger patients. His main focus lies in minimally invasive techniques in the management of common trauma and orthopaedic ailments. Dr. Nicola's has had key surgical and professorial posts in the United Kingdom, Italy and Hong Kong and has lectured in Sports Biomechanics, Sports Medicine, Sports Traumatology, and Orthopaedics to under- and post-graduate medical students. He is on the editorial boards of numerous surgical publications and medical journals dedicated to Sports Science and Medicine and Orthopaedics and has published books and various significant research papers. He actively participates in international Sports and Surgical symposiums as a speaker. As a former athlete, he has a strong interest in sports and martial arts with a black belt in judo, a black belt in sambo wrestling, and an orange belt in Shotokan karate.

Marlovits Stefan, Prof., MD, MBA
Center of Cartilage Regeneration, Orthobiologics and Joint Preservation Vienna, Austria

Stefan Marlovits is a Professor of Traumatology and Sports Orthopaedics at the Center of Cartilage Regeneration, Orthobiologics and Joint Preservation, Vienna. During his career he has been involved in most major activities of trauma surgery, orthopaedics and sports medicine. He is experienced in the treatment of major orthopaedic trauma and has great experience in arthroscopic procedures especially in the knee. The main focuses are mini-invasive techniques especially for the treatment of joints disorders, cartilage regeneration, meniscus surgery, ligaments reconstructions and bio-surgical procedures. He was the Head of Research at the Department of Traumatology at the Medical University of Vienna. He has worked extensively in the area of biological cartilage repair procedures and has published extensively in this field. A special milestone in his work was the development and description of the MOCART score for the evaluation of the cartilage repair tissue with magnetic resonance imaging. He is a member of different national and international scientific societies and currently Head of the Cartilage Repair Center in Vienna.

McDermott Ian, MD, MB BS, MS, FRCS(Orth)
London Sports Orthopaedics Managing Partner London, United Kingdom

Ian McDermott is a consultant orthopaedic surgeon specialising purely in knees. Ian was the youngest ever surgeon to be elected as a Council Member and Trustee of the Royal College of Surgeons of England, and he has also been appointed as an Honorary Professor Associate in the School of Sport & Education at Brunel University. He is one of the UK's leading experts in the fields of meniscal transplantation, complex knee reconstruction and custom-made knee replacements. Ian's practice is a Hospital Innovations designated 'Centre of Excellence' for meniscal transplantation. His practice is also a Vivostat designated 'Centre of Excellence' for the use of biological glues in knees. Ian is also part of the ConforMIS Surgical Visitation Program, teaching visiting surgeons the techniques for implantation of ConforMIS custom-made knee replacements. Ian is one of the founders and the current President of the UK Biological Knee Society. Ian left the NHS in 2007, and in 2008 he founded the London Sports Orthopaedics practice, based in the heart of the City of London, which is now one of the UK's most successful private orthopaedic and sports medicine practices.

INTERNATIONAL SPEAKERS

McNicholas Mike, MD, BSc, MD, FRCSEd (Tr & Orth).
Liverpool University Hospitals Broadgreen, Liverpool, United Kingdom

Mike McNicholas is a Consultant Orthopaedic Surgeon at Liverpool University Hospitals Broadgreen, where he has a regional referral elective knee surgery practice treating all aspects of soft tissue knee pathology and sports injuries, with arthroscopy and ligament reconstruction, articular cartilage resurfacing, osteotomy and primary partial, total and revision knee replacements. He has an Honorary Consultant contract in Manchester where he runs a NorthWest Regional Autologous Chondrocyte Implantation and Joint Preservation service for its 7 million population. He was trained in St Andrews, Manchester, Dundee, Inverness and Edinburgh and completed fellowships in Switzerland, America and Japan. In 2001, his first consultant post as a trauma and orthopaedic surgeon was at Warrington and Halton Hospitals NHS Foundation Trust followed, in 2012 , at the Aintree University Hospital Regional Major Trauma Unit. He was elected President of the UK Biological Knee Society in 2020. He was Honorary Professor at the University of Salford 2006 to 2018, Honorary Senior Lecturer the University of Manchester since 2019 and Liverpool from 2014 to 2020 and a member of the University of Leeds EPSRC Optimising Knee Therapies Advisory Board since 2017. In the last 20 years he has performed over 1,200 knee replacement procedures, 7,000 arthroscopies and 1,700 knee ligament reconstructions. (*Figures correct June 2022.) He is a clinician advisor to NICE, associate editor and reviewer for several orthopaedic journals. He has written 16 book chapters, 24 Invited Editorials, over 49 peer reviewed publications, over 145 National and International Podium and over 100 Poster Presentations. He is faculty for train the trainer, training assessment in the clinical environment and advanced arthroscopy courses of the Royal College of Surgeons and regularly invited faculty at national and international joint preservation, ligament reconstruction and arthroplasty surgery meetings. He is involved in international collaborative clinical and basic science research, mainly related to knee disorders and has won awards for this. Current research interests include graphene and stem cell applications in knee injury; ligament reconstruction, osteotomy, cartilage repair and arthroplasty outcomes, including their effect on return to golfing and the treatment of focal articular cartilage defects and early arthritis using novel implants.

Monllau Joan, Dr., PhD
Hospital del Mar Orthopedic Surgery and Traumatology Barcelona, Spain

Orthopaedic surgeon based in Barcelona, with expertise in the field of knee surgery, including both degenerative and sports medicine. Head of the Knee Unit (IcatKnee) at Hospital Universitari Dexeus (since 2005). Head of department of Orthopaedic Surgery and Traumatology at Hospital del Mar (since 2015). Full Professor of Orthopaedics. Autònoma University of Barcelona (UAB) since 1999. Scientific Director of the Barcelona Blood and Tissue Bank (BST) since 2021. Past-president of the Spanish Arthroscopy Association (AEA), 2011-13. Vice-president of the European Society of Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA), 2022-24. Authored over 150 articles in international peer reviewed journals, over 60 in non-indexed journals, and more than 60 book chapters. He has given more than 250 national and international lectures and is currently mentoring and supervising several PhD projects. He is on the editorial board of The Journal of Arthroscopic and Related Surgery (Arthroscopy) and has been working as a reviewer for several journals, including KSSTA, JEO, Int Orthop, The Knee, RECOT, to mention some of them.

Nehrer Stefan, Prof., MD, PhD
Danube University Krems Center for Regenerative Medicine
Krems, Austria

Stefan Nehrer is an orthopaedic surgeon at Department for Orthopaedic Surgery at the university hospital in Krems, Professor for Tissue Engineering at Center for Regenerative Medicine, and since 2011 he is also Dean of Faculty Health and Medicine. Furthermore, he is head of Department Health Sciences, Medicine and Research since March 2013 at Danube University Krems. He studied at the Medical University Vienna where he obtained his MD in 1984 and his PhD in 1999. From 1995 to 1996 he was at the Harvard Medical School in Boston, USA, at Prof. Myron Spector where he started his scientific work in cell-based therapies in cartilage regeneration. From 2000 to 2006 he was head of orthopaedic research at the Medical University Vienna and leading surgeon in sports medicine and paediatric orthopaedic. In 2007 he was appointed Professor for Tissue Engineering at Danube University Krems. Over the years he has continued his research on experimental and clinical applications of chondrocyte transplantation and formed a group for tissue engineering research. Furthermore, his interests focused on mesenchymal cell differentiation and design/implementation of tissue culture bioreactors for automated and controlled manufacturing of cartilage, bone and osteochondral grafts, based on autologous cells and 3D porous scaffolds. He has published 99 peer reviewed articles and numerous other articles and book chapters in national and international journals. Prof. Nehrer has presented at many national and international meetings and he is member of national and international societies. From June 2016 to May 2018 he was the president of the German-Austrian-Swiss Society for Orthopaedic Traumatologic Sports Medicine (GOTS). In addition, he got in February 2019 the Grand Decoration of Honour in Silver for Services to the Republic of Austria awarded by the President of Austria, Alexander Van der Bellen. Besides he is Honorary Fellow of ICRS.

O'Brien Fergal, Dr.
Royal College of Surgeons in Ireland Tissue Engineering, Anatomy & Regenerative Medicine Dublin, Ireland

Fergal O'Brien is Deputy Vice Chancellor for Research & Innovation, Professor of Bioengineering & Regenerative Medicine and Head of the Tissue Engineering Research Group in RCSI. He is a leading innovator in the development of advanced biomaterials for tissue repair with target applications in bone, cartilage, cardiovascular, ocular, respiratory and neural tissues. A major focus of ongoing research is to functionalise these scaffolds for use as delivery systems for biomolecules with a particular interest in the delivery of gene therapeutics to promote enhanced tissue repair. Since his faculty appointment, he has published over 300 journal articles and supervised over 50 doctoral students to completion and translated a number of regenerative technologies for bone and cartilage repair to the clinic through spin-out formation and licensing to industry. He is a recipient of numerous prestigious awards including a recent €3million Advanced Grant from the European Research Council, Membership of the Royal Irish Academy and the 2023 Marshall R. Urist, MD Award from the Orthopaedic Research Society.

Rönnblad Erik, Dr., MD, PhD.
Capio Artro Clinic Stockholm, Sweden

Erik Rönnblad is a Consultant Orthopedic Surgeon at the Capio Artro Clinic and Researcher at the Stockholm Sports and Traumatology Research Center. His clinical interest areas are knee surgery, sports traumatology, meniscus and cartilage repair. He has had several management positions and is currently the CEO of Capio Artro Clinic. He obtained his orthopedic training in Stockholm. During residency he developed a scientific interest with Prof Karl Eriksson and defended his thesis on meniscus repair in 2021. He has presented his research at several conferences and congresses such as ESSKA and ISAKOS. Erik is an active member of ESSKA, ICRS, ISAKOS and a faculty member of the ESSKA European Certification Program.

INTERNATIONAL SPEAKERS

Saris Daniel BF, Prof., MD, PhD
Mayo Clinic Orthopedics Rochester, USA

Daniël Saris (Past President of ICRS) is a specialized knee surgeon. He joined the Orthopedics staff of Mayo Clinic in Rochester MN USA where he helps shape the Regenerative Medicine program and sports knee surgery and adult knee reconstruction. He graduated from University of Amsterdam Medical School. During orthopedic residency Dr. Saris did a fellowship at the Mayo Clinic in Rochester MN USA and subsequently completed a PhD at the University of Utrecht in the Netherlands that introduced the now generally accepted concept of joint homeostasis. He practiced as staff member in the department of Orthopaedics at the UMC Utrecht for 17 years where he started The Mobility Clinic, an academical expert clinic for Musculoskeletal care and was director of the orthopedic residency program He now has his clinical practice at Mayo Clinic Rochester and holds academical appointments as professor of Reconstructive Medicine at the University of Utrecht, as Clinical professor at the University of Twente and as Professor of Regenerative Medicine and professor of Orthopedics at Mayo Medical school.

Sas Kristof, Dr.
AZ Glorieux / Royal Antwerp FC / KBVB Sports Medicine Oudenaarde, Belgium

Kristof Sas ended his professional football career in 2005 to start as one of the team physicians at RSC Anderlecht (Belgium). He worked consecutively for RSC Anderlecht, Club Brugge and again RSC Anderlecht. Currently he is team physician of the Belgian national team ('Red Devils') and medical consultant for Royal Antwerp FC. Kristof also has a private practice in sports medicine, with a special focus on soccer. As a 'football doctor' he is specialized in structural and functional muscle injuries, but also in the conservative management of tendinopathies and osteo-arthritis. He is an expert in ultrasound guided PRP treatments. More recently his clinical and research interest is in the field of adipose derived stem cells. As an ER specialist he is also working at AZ Glorieux (Ronse / Belgium). He is vice president of BFDA (Belgian Football Doctors and Associates).

Sciarretta Fabio, Dr., MD
Rome, Italy

Fabio Valerio Sciarretta was born in Rome on November 13, 1963. He is currently orthopaedic consultant at the Clinics "Nostra Signora della Mercede", "Assunzione di Maria Santissima" and "Mater Dei" in Rome and at the "Valdisieve Hospital" in Florence. He earned his MD with honours from the University of Rome "La Sapienza" in 1988 and completed his Orthopaedic Surgery residency in the same University, gaining the specialization In Orthopaedics and Traumatology cum laude in 1993, under the supervision of Prof. Lamberto Perugia, master of knee surgery and his godfather for over 20 years. Since the years of the Bachelor, he concentrated his professional interest in the Knee Surgery, Arthroscopy and Sports Medicine, focusing particularly on techniques for cruciate ligament reconstruction and repair of meniscal tears and, subsequently, to the cartilage restoration surgery, devoting years to all the different techniques of reconstruction of cartilage damage in any joint, deepening these techniques with internships abroad. The last decade has been especially dedicated to regenerative medicine therapies for cartilage healing. He has published over 50 publications in national and international journals and has presented more than 150 papers in national and international conferences. He was also instructor in various courses of arthroscopic and arthroplasty surgery. He edited the Italian edition of over 30 treaties of Orthopedics and Traumatology of the American and international literature and for some years participated to the Italian edition of the original English text of "Yearbook of orthopaedics". Since January 1990 he is ordinary member of SIOT, affiliate member of AAOS and ESSKA, active member ISAKOS, ICRS and SICOT. He is currently Co-Chair of the ICRS Education and Meeting Standing Committee, Member of the ISAKOS Education Committee and Member of the Sports Medicine and Arthroscopy Committee of SICOT.

Siebold Rainer, Prof., Dr. med.
ATOS Hospital Heidelberg HKF - Spezialised Hip-Knee-Foot Surgery
Heidelberg, Germany

Rainer Siebold is an orthopaedic surgeon at the International Center for Orthopaedics, ATOS Clinic Heidelberg and Professor at Institute for Anatomy and Cell Biology, Ruprecht-Karls University Heidelberg/Germany. He performed his medical training at the Ruprecht Karls University in Heidelberg, Germany. During his medical training he worked in Manhattan/New York and Boston/Massachusetts. In 2003 he performed a 1-year Fellowship in Knee Surgery with John Bartlett, Hayden Morris and Julian Feller in Melbourne, Australia. In 2008 he was chosen for the AOSSM-ESSKA Traveling Fellowship and the AGA-Aircast Pittsburgh Clinical Fellowship. Since 2008 he works as Orthopaedic Surgeon and Specialist for Knee Reconstruction (ACL, cartilage and meniscus transplantation) and navigated Knee Replacement at the ATOS Hospital in Heidelberg, International Center for Orthopedics. He is member of several international societies, e.g. ESSKA, ISAKOS, Australian Knee Society, the ACL Study Group and Honorary Member of the AOSSM. He is General Secretary of the Magellan Society for International Traveling Fellows and published nearly 100 peer-review articles and book chapters.

Skarpas George, Dr.
Barnet & Chase Farm Hospital Orthopaedics Vironas-Athens, Greece

George A. Skarpas, MD, PhD, is an Assistant Professor of Orthopaedic Surgery at, University of Patras. Head of 3rd Orthopaedic Dept for Sports Injuries & Regenerative Medicine, "MITERA" General Hospital, Adjunct Professor of Medicine, Hellenic Open University. Sports medicine expert at the "Athens Olympic games 2004". Orthopaedic resident at Chase Farm & Barnet NHS Trust Hospitals, London/UK. Orthopaedic resident at the General Hospital "Asklepieion" and 251 General Air Force. Hospital, Athens-Greece. Sports injuries fellow-academic scholar at 2nd orthopaedic dept, University of Athens, medical school. Osteoporosis and orthopaedics fellow at open care for the elderly centres, Athens/Greece. Lecturer-university scholar, anatomy, histology & embryology dept, University of Athens, school of medicine and nursing. Head of the orthopaedic department, "Evgenideio" University Clinic. Attending robotic reconstruction, sports injuries, foot & ankle surgeon at Hygeia Hospital. Head of the orthopaedic department, Aimis Health Provider, Limassol/Cyprus. Adjunct professor of medicine, Open University of Cyprus. Head of the third Orthopaedic department for Sports Injuries & Regenerative Medicine, Mitera General Hospital - hhg group. Adjunct professor of medicine, Hellenic Open University. Assistant professor of orthopaedics, medical school-university of Patras.

Smith Nick, Dr., PhD
University Hospitals Coventry and Warwickshire
Trauma&Orthopaedics Solihull, United Kingdom

Nick Smith is a consultant knee surgeon at University Hospitals Coventry and Warwickshire NHS Trust, in the UK. He has a clinical and research interest in meniscal allograft transplantation, having completed a PhD on the topic in 2016. He initially completed a pilot randomised controlled trial comparing meniscal allograft transplantation to physiotherapy. This has subsequently led to a £1.3 million Health Technology Assessment award to complete an international meniscal allograft transplantation randomised controlled trial. This is recruiting patients from the UK, Europe, Canada and Australia and aims to definitively determine efficacy. He also has a research interest in cartilage repair, with a trial on the cryopreserved osteochondral allograft 'Prochondrix', due to start recruitment.

Steinwachs Matthias, Prof., MD, PhD
SportClinic Zurich/Hirslandenklinik Orthopädie und Sport Medizin
Zürich, Switzerland

Renowned international tissue regeneration specialist e.g. cartilage, meniscus etc. Member of the Swiss knee experts group (EGK) at the SGOT. Chairman of the cartilage committee at the Society for Arthroscopy and Joint Surgery (AGA). Teaching at ETH Zurich.

Tandogan Reha, Prof., M.D.
Ortoklinik Orthopedics & Traumatology Ankara, Turkey

Reha N. Tandogan is a senior member of Cankaya Orthopaedics, Ankara, Turkey, a 15-surgeon private group specializing in joint preserving surgery and arthroplasty and is the Chairman of the Dept. of Orthopedics & Traumatology, Halic University, Istanbul. His main focus is arthroscopic and reconstructive surgery of the knee, including multi-ligament injuries, cartilage repair, orthobiologics, osteotomies, primary and revision knee arthroplasty & robotic knee surgery Dr Tandogan is the Chairman of EKA section of ESSKA. He is also the Associate Editor of the KSSTA Journal. Dr Tandogan is keenly interested in orthobiologics and is a board member of Global Regenerative Academy, a multi-speciality, multi-national collaboration of scientists working on various aspects of regenerative medicine. He has served as the President of the Turkish Society of Sports Traumatology and is the former President of the Turkish Society of Preventive Hip Surgery. He is a former board member and an active Turkish Society of Sports Traumatology, Arthroscopy & Knee Surgery instructor. Dr Tandogan is the author of 1 English and 10 Turkish books on knee surgery & sports traumatology. He has published 83 scientific articles in international journals and 75 articles in Turkish literature (h-index 27). Dr Tandogan is very active in teaching and education. He lectures extensively in national and international meetings, and regularly organizes cadaver courses and symposia.

Terzidis Ioannis, Dr., PhD, BSc, FEBSM
Sports Medicine Center Thessaloniki, Greece

Born in Katerini, Greece (1964) Sports Orthopedic Surgeon (knee and hip specialist), Private St. Louke's General Hospital, TheMIS Orthopaedic Center Consultant and training specialist at ISAKOS and ICRS approved teaching and training center, TheMIS Medical School: Aristotle University of Thessaloniki (1993) Physical Education Department: Aristotle University of Thessaloniki – sailing specialty (1986) Residency: Hippokration General Hospital, Thessaloniki Greece (1995-2000) As. Prof. of Sports Injuries, Aristotle's University of Thessaloniki, Greece (2014 – to present). Fellowship: St Anna G Hospital, Orthopaedic and Sports Trauma (2002-2003), Bochum, Germany (Chief: Prof Godolias G) Subspecialist: Sports Physician, European Board of Sports Medicine, UEMS (2015) 42 scientific publications peer reviewed (625 citations) 8 books (Co-author) More than 300 lectures at national and international congresses Member of Herodicus Society, ICRS, ESSKA 2000, ISAKOS, FIMS, Hellenic Arthroscopic Society, Hellenic Orthopaedics & Traumatology Association Founding Member (1994) and past President of Sports Medicine Association of Greece (2008-2010) Corresponding Member of the Development Commission of FIMS, three-year period (2010-2013) Co-Founder of the TheMIS Orthopaedic Center, Thessaloniki, Greece President of organizing committees 10th International Congress of Sports Medicine Association of Greece Five International TheMIS annual Congresses (2013-2017) Member of organizing committees for more than 36 scientific congresses and seminars Team Coverage; past and present Sailing Coach, Nautical Club of Katerini(1984-1990) honored at national and international level. Sailing Coach, Sydney Olympic Games (2000), 470 classes Greek National sailing team. Head of medical committee of Greek National Sailing Team (2002-2010). Medical Venue Manager, Athens Olympic Games (2004-). Head Team Physician, ARIS Thessaloniki women volley team (2014-) Head Team Physician, AE PANORAMA, PYLEA, PAOK Thessaloniki handball team (2015-).

Verdonk Peter, Prof., MD, PhD
Gent-Zwijnaarde, Belgium

Peter Verdonk, MD, PhD is a full time Consultant Orthopaedic Knee Surgeon at the Antwerp Orthopaedic Center (Monica Hospitals) and Researcher at the Antwerp University and the Monica Research Institute. He is also a Visiting Surgeon at the Aspetar Hospital in Doha, Qatar and an Attending Surgeon at the Antwerp University Hospital. His clinical and research interests are knee surgery and arthroplasty with a particular focus on meniscus substitution and cartilage repair. He has obtained his PhD degree at the Ghent University in 2006 on 'The Human Meniscus: characterization, transplantation and tissue engineering. He received his orthopaedic training in Ghent University, and was a fellow of Prof. Bellemans in Leuven and of Prof. Neyret in Lyon. He has been an international traveling fellow of the International Cartilage Repair Society in 2004 and of the European Society of Sport Traumatology Knee Surgery and Arthroscopy in 2007. He is author of more than 90 peer reviewed papers and has lectured internationally. He is also involved in a number of national and international scientific organization (ICRS, ISAKOS, ESSKA, ABA, BVOT, BKS,...).

Verdonk Rene, Prof., PhD
Gent, Belgium

Rene Verdonk obtained his medical degree in July 1971 at Gent State University in Belgium. He was Board certified in orthopaedic surgery in 1976 and presented his PhD thesis on Viable meniscal allografts in 1992. Since 1992 he was Full-time Professor of Orthopaedic Surgery and head of the department of Orthopaedic Surgery and Traumatology at Ghent University Hospital/Belgium. He is an emeritus professor since 2011. During his career, he has been involved in the advancement of trauma surgery and knee pathology and takes a special interest in cruciate and meniscal surgery. Currently, he is also involved in cartilage pathology and treatment. He has published in many review Journals. He was Editor in Chief of the KSSTA journal (knee surgery and sports trauma and arthroscopy) and later became a senior editor in 2013. He is a member of many scientific societies, such as the Belgian Society for Orthopaedic Surgery and Traumatology, of which he was President from 1991 – 1992. He is a founding member of BOTA (Belgian Orthopaedic Trauma Association). He is the Past President of ESSKA (1995-1996) and past chairman of the basic science committee. He is a member of the ISAKOS strategic planning committee and the ISAKOS Education Committee. He is also a member of AAOS, and a corresponding member of the American Orthopaedic Association (AOA) and the Orthopaedic Trauma Association (OTA). He was nominated to the prestigious Hall of Fame of the AOSSM in 2011. During the meeting in Lyon in June 2015, he was awarded the prestigious honorary ISAKOS membership. He is now an active consultant in the ULB Erasmus University Hospital Department of orthopaedics and trauma (dir. Prof Dr F Schuind). He is involved in all aspects of knee pathology and treatment.

Vonk Lucienne, Dr., PhD
Xintela AB Lund, Sweden

Lucienne Vonk, PhD, is Director Musculoskeletal diseases at Xintela AB (Lund, Sweden) and holds a guest senior researcher appointment at the Department of Orthopaedics, University Medical Center Utrecht. She obtained her PhD at the Academic Centre for Dentistry Amsterdam, VU University Amsterdam, on the use of chondrocytes and chondrons from various cartilaginous tissues for tissue engineering. In 2010, she joined the department of Orthopaedics at the UMC Utrecht as postdoctoral researcher and headed the scientific department at CO.DON AG (Teltow, Germany) 2019 – 2022. Her research focuses on cell-based therapies for musculoskeletal tissue regeneration. She has published numerous articles in peer-reviewed international journals and attracted over 3 million Euro in research funding. She received several awards, including the ICRS Young Investigator Award in 2016. Dr. Vonk was selected for the first ICRS scientist traveling fellowship in 2015, the Steyn Parvé program in The Netherlands to stimulate female leadership in science in 2018 and nominated as best graduate student supervisor of Utrecht University in 2019. In addition, she was the program co-chair for the ICRS world congress 2019 in Vancouver, Canada. She is also co-founder and co-chair of the German National ICRS cartilage club, was active in several committees of the ICRS and is currently deputy co-chair of the basic science – translational research committee of the ICRS. She is also senior & social media associate editor of the Journal of Cartilage & Joint Preservation.

Zaffagnini Stefano, Dr.
Isituto Ortopedico Rizzoli Bologna, Italy

Stefano Zaffagnini, MD degree from the University of Bologna in 1987, with 110/110 cum laude. Specialization in "Orthopaedics and Traumatology" from the University of Bologna in 1992, with 70/70 cum laude. He has been 1st assistant orthopaedic surgeon in the Sports Traumatology Dept. of Istituti Ortopedici Rizzoli (Bologna, Italy) since 1997. Since 2008 he has been the coordinator of the "Sports Traumatology Excellence Centre" of Istituti Ortopedici Rizzoli (Bologna, Italy). From 2016 to 2017, he was the Head of Orthopaedics of Department Rizzoli Sicilia – Bagheria. Since 2017 he has been Head of II Clinic – Orthopaedics and Traumatology of Istituto Ortopedico Rizzoli (Bologna, Italy). Surgery as the first surgeon to November 2017: over n. 9000. From 1991 to 2018, he published 279 articles in international journals (263 with an impact factor). He was the editor of 14 books and associate author of 66 book chapters, six monograph chapters and eight videos. He works as a researcher in the Biomechanics Laboratory of Codivilla-Putti Research Institute (Istituti Ortopedici Rizzoli – Bologna, Italy). He took part in many research projects promoted by Istituti Ortopedici Rizzoli (Bologna, Italy), Italian Health Ministry and European Community. He is a member of the scientific committee of: ISAKOS, SIAGASCOT, and S.I.C.S.e G. He was a member of the cartilage committee of ESSKA from 2006 to 2008 and was the chairman of the arthroscopy committee of ESSKA from 2008 to 2010. He is designated Scientific Chairman of the 14th, 15th & 16th ESSKA Congress. Since August 2009, he has been a member of the "Anterior Cruciate Ligament Study Group". He is designated as Scientific Co-Chairman of the 11th ISAKOS Congress. He was a member of the ESSKA Sport Committee from 2014 – 2016. Since April 2016, he has been a full Professor in "Orthopaedics and Traumatology" at the Faculty of Medicine – University of Bologna. He was chairman of SIGASCOT society from 2014 to 2016.

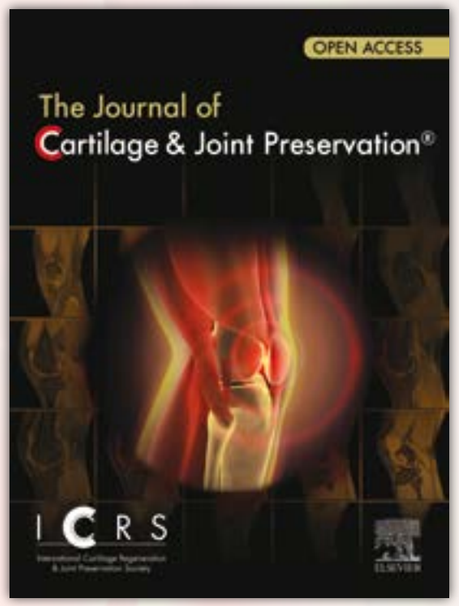
The official journal of the International Cartilage Regeneration and Joint Preservation Society (ICRS)

ICRS
International Cartilage Regeneration & Joint Preservation Society

Dr. Rachel Frank and the ICRS invite you to publish in ***The Journal of Cartilage & Joint Preservation tm (JCJP),*** which captures clinical, translational and basic science cartilage research.

Why publish with this open access cartilage journal?

- **Quality & Reputation:** The International Cartilage Regeneration and Joint Preservation Society (ICRS), known for quality education, own ***JCJP*** and the ICRS past presidents recently published their work in a special issue.
- **Ethics and Experience:** Peer reviewed by an ethical and experienced editorial board with Editor-in-Chief Dr. Rachel Frank.
- **Fast track your publication:** Dr. Frank and her editorial board deliver a first publication decision to authors within 3 weeks.
- **Open Access:** Publishing gold open access with Elsevier and the ICRS means that global researchers can freely discover, read and cite your work, completely free with no restrictions.
- **Visibility of your research:** increase the impact of your research as your manuscript will be published on ScienceDirect—which receives over 18 million unique visitors a month.



Submit your paper today!

www.cartilagejournal.org

ELSEVIER

ICRS
International Cartilage Regeneration & Joint Preservation Society

PATIENT REGISTRY

MISSION

Our mission is to create the best source of unbiased outcomes data for treatments of painful articular cartilage lesions in the world, which is paramount for improvement of existing and discovery of new cartilage repair strategies, ultimately beneficial for millions of patients around the world.

ICRS PATIENT REGISTRY SIGN UP

We invite surgeons and hospitals all over the world to participate. The use of the registry is completely **free of charge** for surgeons, hospitals & patients.

SCAN ME

VISIT
www.cartilage.org

CONTACT
registry@cartilage.org

JRF ORTHO

OSTEOCHONDRAL ALLOGRAFTS

SINGLE STAGE CARTILAGE REPAIR THAT **FITS YOUR SCHEDULE**

Coordinate with JRF Ortho to make your OCA implant process easy and seamless.

PREPARE FOR SUCCESS:
ORDER YOUR OCA WITH JRF ORTHO

Tell us what type of allograft you want and when you want it.

SCAN CODE OR VISIT: ***JRFORTHO.ORG/ORDER***

7245 S Havana St, Ste #300, Centennial, CO 80112 **M** 877-255-6727 **F** 303-649-1658
JRFORTHO.ORG

beyond movement