



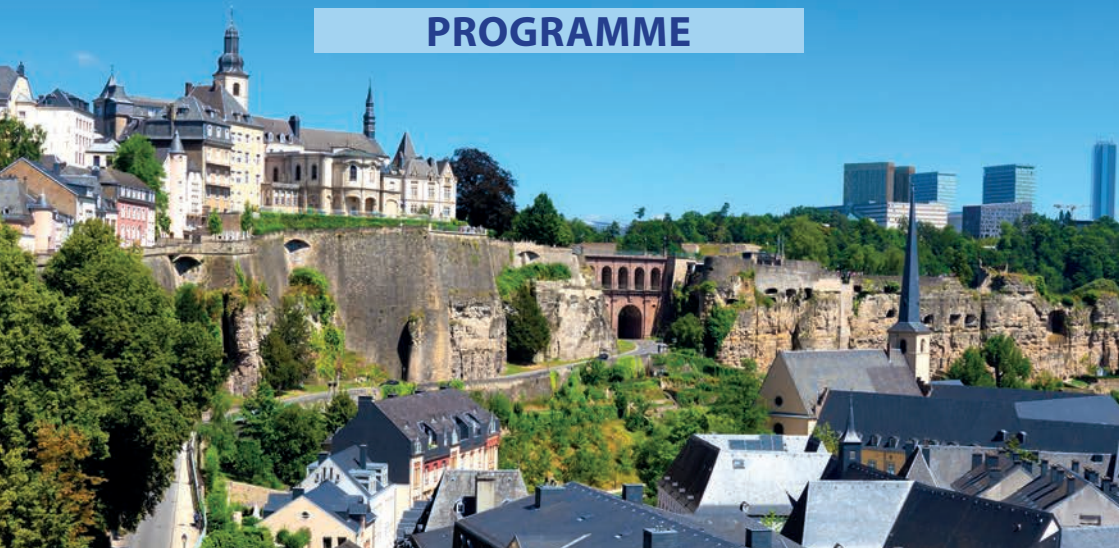
2022

The Luxembourg Meniscus

5th International Conference on Meniscus Science and Surgery

JULY 07-09, 2022

PROGRAMME



▶ www.the-meniscus.org ◀

Congress Chairmen:

Romain SEIL (*Luxembourg*)
Henning MADRY (*Homburg*)
Dietrich PAPE (*Luxembourg*)

Scientific Committee:

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Jan CABRI (*Luxembourg*)
Aad DHOLLANDER (*Brasschaat*)
Caroline MOUTON (*Luxembourg*)

Nicolas PUJOL (*Versailles*)
Cécile TOANEN (*Versailles*)
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Rene VERDONK (*Ghent*)



WELCOME

FACE-TO-FACE MEETING!

Dear Colleagues, Dear Friends of THE MENISCUS,

In 2010, the first edition of «**THE MENISCUS**» was held in Ghent (Belgium) under the lead of Rene Verdonk and Philippe Beaufils. It was the first congress which was exclusively devoted to the meniscus. Its goal was to share international expertise in order to concentrate and update the knowledge on this small piece of human tissue which is an important cornerstone of joint preservation. Although meniscus surgery was extremely frequent, science around the meniscus, its injuries or lesions and related surgical procedures was often underrepresented at meetings and even in the scientific literature. Hence, it deserved to be promoted and the sub-title of the congress «From Cradle to Rocker» reflected this desire to cover all related topics, from basic research to clinical practice. The spirit of the first congress was reinforced during the following editions: Versailles in 2013, Porto in 2016 and Bologna in 2019.

Because of the big activity around the meniscus among European surgeons and scientists, we wanted this congress to be a forum of ideas illustrating the quality of surgical and research teams from our continent. As there is no progress without stimulation and emulation, we have always intended to confront our ideas by inviting world-renowned teams from America or Asia. The heart of Europe, however, remains the DNA of «THE MENISCUS», so it was only natural that we chose Luxembourg, home of the headquarters of many Institutions of the European Community and of ESSKA. Luxembourg is a very strong symbol and the ideal place to represent the spirit of Europe.

We have revisited the entire program to convince you that nothing can replace a **face-to-face meeting**. Our primary aim is to bring added value for your physical presence at the congress so we are making a point on promoting heavily social interactions as well as practical, hands-on sessions during this congress.

For delegates who will not be able to join Luxembourg, lectures will be available via an online platform few weeks after the congress. The platform will remain accessible until the next congress. We would like to build a permanent '**MENISCUS FORUM**' where networking can continue between the physical congresses. This '**MENISCUS FORUM**' will thus be regularly updated with new videos as well as the latest news about the meniscus.

We look forward to welcoming you in Luxembourg.
Save the meniscus

Philippe Beaufils and René Verdonk (congress founders)

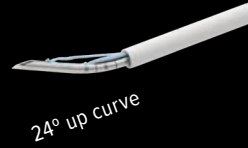
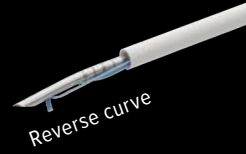
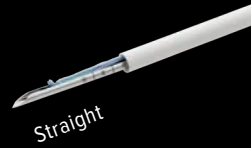
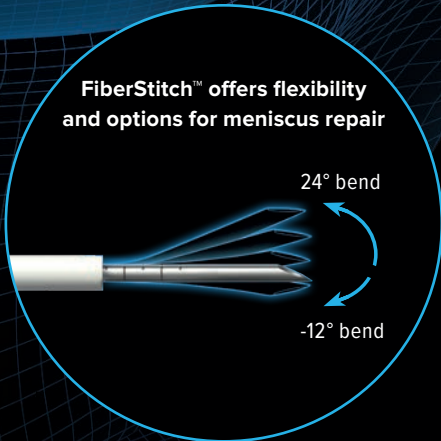
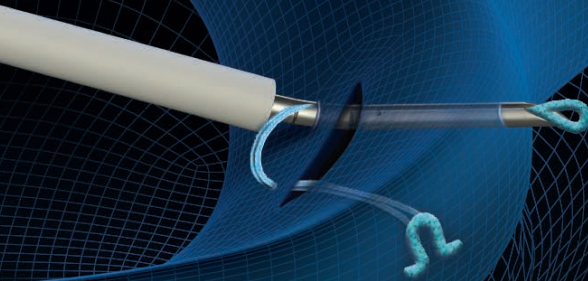
Romain Seil, Henning Madry, Dietrich Pape (congress chairmen)

Jan Cabri, Aad Dholander, Caroline Mouton, Nicolas Pujol, Cécile Toanen, Peter Verdonk (scientific committee)

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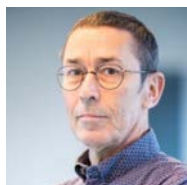


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Jan Cabri



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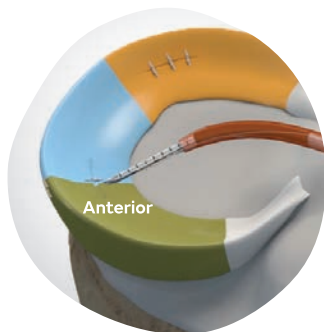
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*compared to predicate device

References 1. Smith+Nephew 2021.Validation, FAST-FIX FLEX. Internal Report. 15010267 Rev A. 2. Smith+Nephew 2021.Validation, FAST-FIX FLEX. Attachment B. Internal Report. 15010267 Rev A. 3. Smith+Nephew 2021.FAST-FIX FLEX- Surgeon Surveys. Internal Memo.

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Wednesday 06 July

18:30 PUBLIC LECTURE **C102**
Lésions méniscales et arthrose du genou (Session en français) / Meniscal lesions and the danger of osteoarthritis (in French)

Moderator: **Romain SEIL (Luxembourg)**

- **Meniscal lesions and the danger of OA / Lésions méniscales et arthrose du genou.** **Philippe BEAUFILS (France), René VERDONK (Belgium)**

Amphithéâtre -
Centre Hospitalier de
Luxembourg

Thursday 07 July

07:20 PRACTICAL WORKSHOP: MENISCUS-CLINICAL EXAMINATION & REHAB **AT02**
Upon registration - Limited to 25 participants

Animators: **Felix HOFFMANN (Luxembourg), Lisa KIRSCH (Luxembourg)**

Registered participants will have access to the bones (others can watch from the back) / Session repeated on Thursday with both in parallel.

SALLE D'ECOUTE 1 -
First floor

PRACTICAL WORKSHOP: PROXIMAL TIBIAL OSTEOTOMIES **AT01**
Upon registration - Limited to 25 participants

Animators: **Alexander HOFFMANN (Luxembourg), Dietrich PAPE (Luxembourg)**

Registered participants will have access to the bones (others can watch from the back) / Session repeated on Friday with both in parallel.

SALLE D'ECOUTE 2 -
Ground floor

08:05 WELCOME SESSION **A200**

- **Welcome Address.** **Romain SEIL (Luxembourg)**

Plenary Room

08:15 OPENING SESSION **A201**

Moderators: **Philippe BEAUFILS (France), Romain SEIL (Luxembourg), René VERDONK (Belgium)**

08:15 ■ **Evidence versus surgical reality: gap between science and practice.** **Philippe BEAUFILS (France), Jon KARLSSON (Sweden)**

08:30 ■ **Importance of genetics in meniscus and cartilage.** **Linda SANDELL (USA), Farooq RAI (USA)**

08:45 ■ **Can identification of bone morphology help us predict the future of our knees?** **Jonas GRAMMENS (Belgium)**

Plenary Room

09:00 MEDIAL RAMP INJURIES **A202**

Moderators: **Mathieu THAUNAT (France), Cécile TOANEN (France)**

09:00 ■ **Critical overview of medial ramp lesions.** **Romain SEIL (Luxembourg)**

09:12 ■ **Anatomy of the ramp and the posteromedial soft tissues.** **Ivan SAENZ (Spain)**

09:20 ■ **Surgical anatomy of the medial meniscus ramp.** **Robert LAPRADE (USA)**

09:28 ■ **Factors associated with medial ramp lesions.** **Caroline MOUTON (Luxembourg)**

09:36 ■ **How I do a medial ramp repair?** **Cécile TOANEN (France)**

09:41 ■ **Outcome of medial ramp repair.** **Mathieu THAUNAT (France)**

09:49 ■ **Discussion.**

Plenary Room

10:05 MEDICO-LEGAL ASPECTS OF MENISCUS SURGERY **A202.1**

Moderators: **Michel VANCABEKE (Belgium), René VERDONK (Belgium)**

- **Mistakes and their medico-legal consequences.** **Henry COUDANE (France)**

Plenary Room

10:20

Coffee break



Thursday 07 July

10:50 CARTILAGE SESSION

A204

Moderators: Peter ANGELE (Germany), Henning MADRY (Germany)

10:50 ■ Know before you go - updated algorithm for decision making in cartilage repair. Mustafa KARAHAN (Turkey)

10:58 ■ Malalignment and effects on meniscus and cartilage in the tibiofemoral compartment. Andreas IMHOFF (Germany)

11:06 ■ Update on marrow stimulation. Stefan NEHRER (Austria)

11:14 ■ Update on autologous chondrocyte implantation. Peter ANGELE (Germany)

11:22 ■ Update on osteochondral transplants and mosaicplasty. Cécile TOANEN (France)

11:30 ■ Discussion.

Plenary Room

11:40 ESSKA SESSION

A205

Moderators: Philippe BEAUFILS (France), Jacques MENETREY (Switzerland)

11:40 ■ ESSKA Core Curriculum 2020 (focus on the knee). Michael HANTES (Greece)

11:50 ■ ESSKA consensus on degenerative meniscus lesions. Roland BECKER (Germany)

12:00 ■ ESSKA consensus on traumatic meniscus tears. Sebastian KOPF (Germany)

12:10 ■ ESSKA consensus on ACL revision. Thomas TISCHER (Germany)

Plenary Room

12:30 INDUSTRY WORKSHOP - ARTHREX

A206

■ Biomechanical Advantages of FiberStitch and Clinical Application. Patrick SMITH (USA)

■ Ramp lesion: A postero-medial Instability. Bertrand SONNERY-COTTET (France)

■ Role of Centralization for Medial Meniscus Root Repair. Patrick SMITH (USA)

Plenary Room

13:00 LUNCH BREAK IN THE EXHIBITION AREA

A207

Plenary Room

13:45 INDUSTRY WORKSHOP - DEPUY SYNTHES Meniscal Repair: Why Leave a Trace?

A208

■ Meniscal Root Repair with an All-Inside Device. Stefano ZAFFAGNINI (Italy)

■ Advantages of using Absorbable implants in my Meniscal Repair surgeries. Bertram RIEGER (Switzerland)

Plenary Room

14:15 LATERAL ROOT TEARS

A209

Moderators: Matthieu OLLIVIER (France), Nicolas PUJOL (France)

14:15 ■ Critical overview of ACL associated lateral root tears. Romain SEIL (Luxembourg)

14:27 ■ Pivot shift and injured lateral root in ACL injured knees. Volker MUSAHL (USA)

14:35 ■ MRI signs for lateral meniscus posterior root tears in ACL injuries. Hideyuki KOGA (Japan)

14:43 ■ Techniques and results of lateral meniscus root avulsions. Robert LAPRADE (USA)

14:51 ■ Kinematic Analysis of Lateral Meniscus Oblique Radial Tears in ACL Deficient and ACL Reconstructed Knees. Patrick SMITH (USA)

14:59 ■ The parrot-beak tear (type II) lesion: repair or neglect? Nicolas PUJOL (France)

15:07 ■ Type III lateral root tears (MF ligament): do they exist? Renaud SIBONI (France)

15:15 ■ Lateral root instability: a new entity? Christophe JACQUET (France)

15:20 ■ Rotatory instability: meniscal repair and/or extraarticular lateral reconstruction? Matthieu OLLIVIER (France)

15:28 ■ Discussion.

Plenary Room

A210



Thursday 07 July

15:45 PEDIATRIC MENISCUS

Moderators: Franck CHOTEL (France), Sang Hak LEE (Korea)

- 15:45 ■ Secondary meniscus injuries in ACL insufficient knees. Romain LAURENT (Luxembourg)
- 15:53 ■ Medial ramp lesions in pediatric knees. Franck CHOTEL (France)
- 16:01 ■ Hypermobile meniscus: diagnosis and treatment. Sang Hak LEE (Korea)
- 16:09 ■ Discoid meniscus: a new perspective? Loic GEFFROY (France)
- 16:17 ■ Osteochondritis Dissecans: update 2021. Stefano ZAFFAGNINI (Italy)
- 16:25 ■ Update ESSKA Pediatric ACL Monitoring Initiative (PAMI). Caroline MOUTON (Luxembourg)
- 16:33 ■ Discussion.

Plenary Room

16:45 Coffee break

17:15 SURGICAL EDUCATION

A212

Moderators: Roland BECKER (Germany), Michael HANTES (Greece)

- 17:15 ■ Virtual reality arthroscopy simulator relevance for the meniscus. Alexandre TRONCHOT (France)
- 17:25 ■ All you need to know about meniscus: meniscus discovery series. Elizaveta KON (Italy)

Plenary Room

17:35 CAN MENISCAL REPAIR PREVENT EARLY OA?

A213

Moderators: Henning MADRY (Germany), Stefan NEHRER (Austria)

- 17:35 ■ Topographic analysis of osteochondral changes after partial meniscectomy. Henning MADRY (Germany)
- 17:43 ■ What can imaging procedures tell us about early OA after meniscus surgery? Stefan NEHRER (Austria)
- 17:51 ■ The concept of meniscus centralization: technique and early results. Hideyuki KOGA (Japan)
- 17:59 ■ Repair of bucket-handle meniscus tears: what to expect in the long term-follow-up? Michael HANTES (Greece)
- 18:07 ■ Long term cartilage status after meniscal repair. Roland BECKER (Germany)
- 18:15 ■ Imaging versus functional results: what's more important? Bertrand SONNERY-COTTET (France)
- 18:23 ■ ACL reconstruction and meniscal repair: long term results. Karl ERIKSSON (Sweden)
- 18:31 ■ Discussion.

Plenary Room

18:45 EUROPEAN CONGRESS COCKTAIL - EXHIBITION AREA

Friday 08 July

07:20 PRACTICAL WORKSHOP 2: MENISCUS-CLINICAL EXAMINATION & REHAB
Upon registration - Limited to 25 participants

AT02b

Animators: Felix HOFFMANN (Luxembourg), Lisa KIRSCH (Luxembourg)

SALLE D'ECOUTE 1 - First floor

PRACTICAL WORKSHOP 1: PROXIMAL TIBIAL OSTEOTOMIES
Upon registration - Limited to 25 participants

AT01b

Animators: Alexander HOFFMANN (Luxembourg), Dietrich PAPE (Luxembourg)

SALLE D'ECOUTE 2 - Ground floor

08:30 MENISCUS AND CARTILAGE REPLACEMENT

A302

Moderators: Karl ERIKSSON (Sweden), Elizaveta KON (Italy)

- 08:30 ■ Meniscus Transplant/Substitution Using Autologous Tendon Graft: Early Experiences. Karl ERIKSSON (Sweden)
- 08:38 ■ New frontiers on meniscal regeneration : The MEFISTO European Project. Elizaveta KON



Friday 08 July

(Italy)

- 08:46 ■ Mid term results of polyurethane meniscal scaffold: european multicentric study. Cécile TOANEN (France)
- 08:54 ■ Long term results of collagen meniscus implantation. Stefano ZAFFAGNINI (Italy)
- 09:02 ■ Results Of Primary And Revision ACL Reconstruction With Meniscal Transplant: Good Results In Selected Patients. Tim SPALDING (United Kingdom)
- 09:10 ■ Meniscal allograft transplantation and anterior intermeniscal ligament suture: clinical and imaging outcomes. Nicolas PUJOL (France)
- 09:18 ■ Nu Surface: where are we? Vincenzo CONDELLO (Italy)
- 09:26 ■ Focal metal or plastic cartilage resurfacing implants: what to expect? Karl ERIKSSON (Sweden)
- 09:34 ■ Imaging versus functional results: what's more important? Peter VERDONK (Belgium)
- 09:44 ■ Massive fresh osteochondral allografts: sense or non-sense? Pablo GELBER (Spain)
- 09:52 ■ Discussion.

Plenary Room

10:10

Coffee break

10:40

MEDIAL ROOT TEARS

A301

Moderators: Christophe HULET (France), Jacques MENETREY (Switzerland)

- 10:40 ■ Critical overview of medial root tears. Nicolas PUJOL (France), Cécile TOANEN (France)
- 10:52 ■ Root tears of the medial meniscus: the Asian perspective. Hideyuki KOGA (Japan)
- 11:00 ■ Distraction Forces On The Meniscal Roots Depend On Axial Loading Rather Than Flexion. Elmar HERBST (Germany)
- 11:08 ■ Medial meniscus root tears and spontaneous osteonecrosis of the medial femoral condyle. Robert LAPRADE (USA)
- 11:16 ■ 10 years of root repairs: what's the outcome? Christophe HULET (France)
- 11:24 ■ Should we repair isolated medial meniscus root tears in high level athletes? Jacques MENETREY (Switzerland), Robert LAPRADE (USA)
- 11:34 ■ Discussion.

Plenary Room

11:50

**INDUSTRY WORKSHOP - SMITH & NEPHEW
All Tears-All Repairs - You CAN Save the Meniscus!**

A305

Moderator: Romain SEIL (Luxembourg)

- Ramp Lesions. Sebastian KOPF (Germany)
- Complex Horizontal/vertical cleavage tear of the medial meniscus. Patrick DJIAN (France)
- Root Repair. James ROBINSON (United Kingdom)

Plenary Room

12:20

LUNCH BREAK IN THE EXHIBITION AREA

A306

Plenary Room

13:40

INDUSTRY WORKSHOP - STRYKER

A307

- Chondroprotective effect of meniscal repair: what is the evidence? Michael HANTES (Greece)
- Meniscus repair failures: Common beliefs. Nicolas PUJOL (France)

Plenary Room

14:10

OSTEOTOMY

A304

Moderators: Dietrich PAPE (Luxembourg), Ronald VAN HEERWAARDEN (The Netherlands)

- 14:10 ■ Unloading and cartilage regeneration in animal models - the biologic perspective. Henning MADRY (Germany)
- 14:18 ■ Is there difference between focal cartilage lesion and early osteoarthritis? Peter ANGELE (Germany)
- 14:26 ■ Proper indications for proximal tibial osteotomies. Renaud SIBONI (France)



Friday 08 July

- 14:34 ■ Osteotomy or unicompartmental knee prosthesis: what is better for sports practice? Dietrich PAPE (Luxembourg)
- 14:42 ■ Surgical risk factors for HTO. Ryohei TAKEUCHI (Japan)
- 14:50 ■ Slope changes and ligament injuries in the malaligned knee. Ronald VAN HEERWAARDEN (The Netherlands)
- 14:58 ■ Meniscal transplantation and osteotomy: sense or non-sense? René VERDONK (Belgium)
- 15:06 ■ Discussion.

Plenary Room

15:25 MENISCUS AND SPORTS

A312

Moderators: Bertrand SONNERY-COTTET (France), Thomas TISCHER (Germany)

- 15:25 ■ Prevention of meniscus injuries in sports: fact or fiction? Thomas TISCHER (Germany)
- 15:33 ■ Medial meniscus repair or resection in the ACL injured knee in athletes? Bertrand SONNERY-COTTET (France)
- 15:41 ■ Meniscus repair or resection in the stable knee in athletes? Peter ANGELE (Germany)
- 15:49 ■ Post traumatic lateral meniscus instability in ACL injured knees. Jacques MENETREY (Switzerland)
- 15:57 ■ Acute ACL reconstruction and meniscus repair in professional skiers. Kristian SAMUELSSON (Sweden)
- 16:06 ■ Discussion.

Plenary Room

16:20

Coffee break

16:50 ACL AND MENISCUS

A313

Moderators: Patrick DJIAN (France), Jon KARLSSON (Sweden)

- 16:50 ■ Profile of meniscus injuries in ACL injured patients. Amanda MAGOSCH (Luxembourg)
- 16:58 ■ Prevalence and Incidence of Chondral and Meniscal Lesions in Patients Undergoing Primary and Subsequent Revision Anterior Cruciate Ligament Reconstruction: An Analysis of 213 Patients. Charles PIOGER (France)
- 17:06 ■ Anterior tibial translation in the sagittal plane and its implications for the meniscus: a forgotten entity? Caroline MOUTON (Luxembourg)
- 17:14 ■ Passive anterior tibial translation on MRI. Alexandre HARDY (France)
- 17:22 ■ Concomitant Repair Of Displaced Bucket Handle Repairs And ACL Reconstruction. Sebastian KOPF (Germany)
- 17:30 ■ Secondary meniscus lesions in ACL reconstructed knees in the long term. Patrick DJIAN (France)
- 17:38 ■ Single stage repair of displaced bucket-handle meniscal tears with ACL reconstruction leads to good meniscal survivorship with similar patient outcomes to primary ACL reconstruction. James ROBINSON (United Kingdom)
- 17:46 ■ Discussion.

Plenary Room

Saturday 09 July

08:00 REHABILITATION - SESSION 1

A400

Moderators: Jan CABRI (Luxembourg), François DELVAUX (Belgium)

- 08:00 ■ Return-to-sport after meniscal transplantation. Vincenzo CONDELLO (Italy)
- 08:30 ■ From biomechanics to physiotherapy: application to meniscal repair. Nicholas DEPHILLIPO (USA)

Plenary Room

09:00 SOCIAL LECTURE

A402b

Keynote Speakers: Savvas PAPASAVVAS (Cyprus), Romain SEIL (Luxembourg)

- Challenges in European Foreign Policy from the perspective of a small EU member state. *Mr. Jean Asselborn, Minister of Foreign Affairs, Luxembourg*

Plenary Room



Saturday 09 July

REHABILITATION - SESSION 2

B402

Moderators: **Jan CABRI** (Luxembourg), **François DELVAUX** (Belgium)

- 09:00 ■ Rationale and implementation of knee injury prevention programs. **Thomas PATT** (The Netherlands)
- 09:15 ■ The clinical milestones of rehabilitation after isolated meniscal surgery. **Anne FRISCH** (Luxembourg)
- 09:30 ■ Load monitoring strategies after meniscal surgery. **Jérôme PAULS** (Luxembourg)
- 09:45 ■ Sport-specific rehabilitation before and after concomitant meniscal repair and ACL reconstruction. **Magalie HAHM** (Luxembourg)
- 10:00 ■ Discussion.

SALLE D'ECOUTE 2 - Ground floor

09:30 FUTURE PERSPECTIVE OF MENISCUS RELATED RESEARCH PART I

A402

Moderators: **Magali CUCCHIARINI** (Germany), **Caroline MOUTON** (Luxembourg)

- 09:30 ■ The anatomical interaction between the medial ramp and the semimembranosus. **Ivan SAENZ** (Spain)
- 09:38 ■ Meniscus and cartilage imaging with contrast CBCT. **Jari SALO** (Finland)
- 09:46 ■ What makes the meniscus a unique multi functional structure. A journey inside the meniscus from nano to macroscale. **Olga BARRERA** (United Kingdom)
- 09:54 ■ Biologics of meniscal healing. **Elizaveta KON** (Italy), **Francesca DE CARO** (Italy)
- 10:04 ■ Injured meniscus and distinct phenotypes of meniscus degeneration. **Linda SANDELL** (USA), **Farooq RAI** (USA)
- 10:12 ■ Age related differences of neuronal structures in the meniscus. **Theresa DIERMEIER** (Germany)
- 10:20 ■ Degeneration Alters First The Biomechanical Properties Of Human Menisci Before Affecting The Tibial Cartilage. **Andreas SEITZ** (Germany)
- 10:28 ■ Introduction of a new standard for pre-clinical testing of total meniscus prosthesis. **Branco VAN MINNEN** (The Netherlands)
- 10:36 ■ Discussion.

Plenary Room

11:00

Coffee break

11:30 REHABILITATION - PRACTICAL SESSION

B406

- 11:30 ■ The decision-making process for return-to-sport after meniscal surgery. **Jérôme PAULS** (Luxembourg), **Anne FRISCH** (Luxembourg)

SALLE D'ECOUTE 2 - Ground floor

FUTURE PERSPECTIVE OF MENISCUS RELATED RESEARCH PART II

A405

Moderators: **Olga BARRERA** (United Kingdom), **Caroline MOUTON** (Luxembourg)

- 11:30 ■ The Meniscus Tear: A Review of Stem Cell Therapies. **Norimasa NAKAMURA** (Japan)
- 11:37 ■ Translational animal models of normal and injured menisci. **Tamás OLÁH** (Germany)
- 11:45 ■ How molecular biologics can help us understand and improve meniscus disease. **Magali CUCCHIARINI** (Germany)
- 11:53 ■ Biomechanical characteristics of the menisco-synovial junction of the posterior segment of the medial meniscus. **Quentin NICOLAS** (France)
- 12:01 ■ Effect of meniscocapsular and meniscotibial based lesions on knee laxity in ACLd and ACLR knees : Biomechanical study. **Nicholas DEPHILLIPO** (USA)
- 12:09 ■ Anatomy and Biomechanics of the meniscus attachments: Implications for Meniscus allograft transplantation. **Christoph KITTL** (Germany)
- 12:17 ■ Biomechanics of HTO: Personalised versus Generic. **Richie GILL** (United Kingdom)
- 12:25 ■ Dynamic imaging in meniscus healing with ultrasound. **Burt KLOS** (The Netherlands)
- 12:33 ■ Collagen Matrix Wrapping and Bone Marrow Blood Injection: Clinical Effectiveness in the treatment of meniscal tears. **Tomasz PIONTEK** (Poland)
- 12:41 ■ Discussion.

Plenary Room

LIROMS
Luxembourg Institute of Health
University, Health Research and Innovation

2022

JULY 07-09

The Meniscus
Luxembourg

5th International Conference on Meniscus Science and Surgery

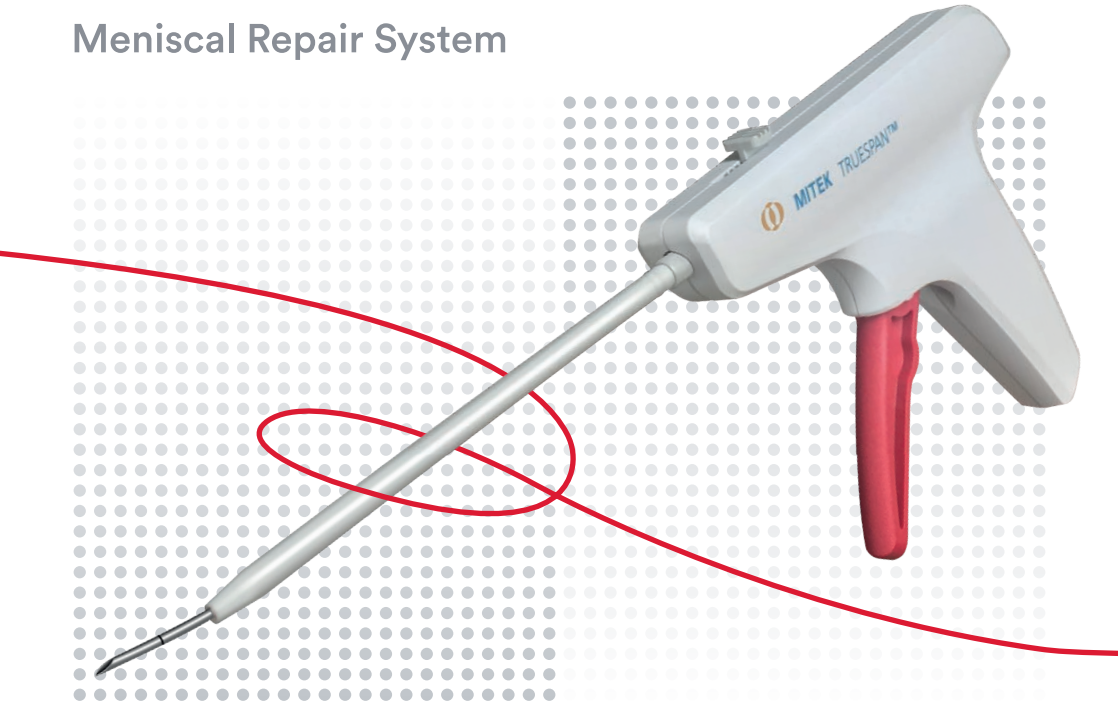
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Saturday 09 July

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1. Static Loading of JuggerStitch Meniscal Repair Device. BSM26.VR2. 24 AUG 2016.
2. Compared to current hard PEEK implants.

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#letzreconnectsafe

Thank you

for visiting us at The Meniscus



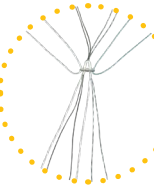
AIR+

All-inside
Meniscal Repair System



VersiTomic RR

All-inside
ACL Reconstruction



ProCinch

Adjustable Loop
Suspensory Fixation



System 8

Power Tools



Zip Skin Closure

Non-invasive
Wound Closure Device