



SCIENTIFIC PAPER ONLINE MEETING

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# INTERNATIONAL **KNEE DAY**

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BIOMECHANICS, BIOLOGY  
AND CLINICAL RESEARCH

LECTURES | FREE PAPERS

**JUNE 12<sup>TH</sup> 2020**



## Dear participants

Unfortunately, many attendance congresses have already been canceled this year. Many events have been replaced by webinars giving highlight lectures on various topics. Compared to written literature, these presentations represent review articles. However, the exchange of current scientific data is lacking to a high amount. Therefore we would like to encourage young researchers from all over the world to submit and present their most recent research results.

In addition to the original papers, several international highlight speakers will chair these sessions and provide background information of the essential knowledge around the knee. We hope that this new concept on international scientific exchange will be of interest to you and are looking forward welcoming you on the other side of the presentation screen.

**Wolf Petersen, Sven Scheffler and Thore Zantop**

## Scientific Committee

Prof. Dr. med. Wolf Petersen  
**Martin Luther Krankenhaus, Berlin**



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**sporthopaedicum, Berlin**



Priv.-Doz. Dr. med. Thore Zantop  
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## Faculty

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Dr. Bertrand Sonnery-Cottet  
**Centre Orthopedique Santy, Lyon**



Prof. Kate Webster  
**La Trobe University, Melbourne**



## Program | June 12<sup>TH</sup> 2020

Opening ceremony | 09:00-09:15 am\*

**Petersen (Berlin/Germany), Scheffler (Berlin/Germany),  
Zantop (Straubing/Germany)**

### Session 1 | 09:15 am – 10:35 am\*

**Studio Chair: Petersen (Berlin/Germany)**

**Web Chairs: Kuroda (Kobe/Japan), Oberoi (New Delhi/India),  
Webster (Melbourne/Australia)**

**10+ 5** Anatomic double-bundle ACL reconstruction –  
Japanese experience  
**Kuroda (Kobe/Japan)**

**5+ 5** The effectiveness of preoperative rehabilitation programmes  
on postoperative outcomes following anterior cruciate ligament  
(ACL) reconstruction – a systematic review  
**Carter (Derby/United Kingdom)**

**5+ 5** Is viewing the femoral footprint end on while drilling the fem-  
oral tunnel in an ACL reconstruction more accurate?  
**Mhaskar (New Delhi/India)**

**5+ 5** A comparative study of functional outcome of transtibial and  
transportal femoral tunneling techniques for arthroscopic ACL  
reconstruction

**Date (Carlisle/United Kingdom)**

**10+ 5** Do psychological aspects influence patient reported out-  
comes and return to sport after ACL injury?  
**Webster (Melbourne/Australia)**

**5+ 5** Development of an on-field injury screening test using wear-  
able sensor technology  
**Caliskan (Eskisehir/Turkey)**

**5+ 5** Role of activation patterns of hip muscles in single-leg  
squats in healthy patients  
**Cotic (Munich/Germany)**

**10:35 am – 10:50 am\***

**Short break, poster and virtual exhibition**

## Session 2 | 10:50 am – 12:30 pm\*

Studio Chair: Zantop (Straubing/Germany)

Web Chairs: Gokeler (Paderborn/Germany),

Imhoff (Munich/Germany), Sonnery-Cottet (Lyon/France)

**10+ 5** Anterolateral ligament reconstruction –  
clinical results at 9 years follow-up  
**Sonnery-Cottet (Lyon/France)**

**5+ 5** The anterolateral structure of the knee does not affect anterior and dynamic rotatory stability in anterior cruciate ligament injury  
**Araki (Kobe/Japan)**

**5+ 5** The relative contributions of the anterior cruciate ligament, anterolateral ligament, Kaplan fibres and the lateral meniscus to knee stability  
**Willinger (London/United Kingdom)**

**10+ 5** Clinical effect of open-wedge high tibial osteotomy in treatment of Kellgren-Lawrence IV knee osteoarthritis associated with varus tibial deformity  
**Sha (Henan/China)**

**5+ 5** Ten year results following HTO – analysis of clinical outcome and survival rates in terms of TKA revision  
**Bode (Freiburg/Germany)**

**5+ 5** Effect of unicompartmental knee arthroplasty and high tibial osteotomy with tomofix internal fixation in the treatment of unicompartmental knee osteoarthritis  
**Hou (Zhengzhou/China)**

**5+ 5** Long term outcomes of computer navigated lateral opening wedge distal femoral osteotomy for lateral compartment knee arthrosis  
**Kandhari (Cardiff/Wales)**

**10+ 5** Three-dimensional realignment and slope reducing osteotomy with anatomic ACL reconstruction in patients with revision anterior cruciate ligament deficiency  
**Imhoff (Munich/Germany)**

**12:30 am – 1:00 pm\***

**Lunch break, poster and virtual exhibition**

## Session 3 | 1:00 pm – 2:35 pm\*

Studio Chair: Scheffler (Berlin/Germany)

Web Chairs: Herbst (Muenster/Germany), Nehrer (Krems/Austria), Hirschmann (Liestal/Switzerland)

**10+ 5** Effects of PRP in regenerative aspects of the knee joints  
Nehrer (Krems/Austria)

**5+ 5** Gait analysis after cartilage repair in the knee reveals no significant functional alteration  
Körner (Luebeck/Germany), Gille (Luebeck/Germany)

**5+ 5** Genetic insights of primary knee osteoarthritis  
Subramanyam (Hyderabad/India)

**5+ 5** Serum cartilage oligomeric matrix protein correlate with cartilage degeneration on magnetic resonance imaging in patients with anterior cruciate ligament injury.  
Nishida (Osaka/Japan)

**5+ 5** Biomechanical test for a novel suture technique for radial meniscal tears in a porcine mode  
Nakanishi (Kobe/Japan)

**5+ 5** First clinical experiences with an anatomical meniscus prosthesis  
van Tienen (Nijmegen/Netherlands)

**5+ 5** Characteristics of bone marrow derived fibrin clot and clinical result of meniscal repair with these clot for irreparable meniscal injury  
Hashimoto (Osaka/Japan)

**5+ 5** Clinical outcomes after menisctoplasty by capsular advancement with centralization technique for knee osteoarthritis due to lateral meniscal defects  
Koga (Tokyo/Japan)

**5+ 5** Four tunnels of tibial combine with “figure of 8” fixation in the treatment of tibial avulsion fracture of anterior cruciate ligament with arthroscopic  
Hou (Nanchang/China)

**2:35 pm – 3:00 pm\***  
**Short break, poster and virtual exhibition**

## Session 4 | 3:00 pm – 5:00 pm\*

Studio Chairs: Petersen (Berlin/Germany), Scheffler (Berlin/Germany), Zantop (Straubing/Germany)

Web Chair: Musahl (Pittsburgh/USA)

**10+ 5** Individual knee alignment – one of the many reasons for painful total knee arthroplasty  
**Hirschmann (Liestal/Switzerland)**

**5+ 5** Machine learning predicts rate of cartilage loss: data from the osteoarthritis initiative (OAI) and the multicenter osteoarthritis (most) studies  
**DiFranco (Vienna/Austria)**

**5+ 5** Influence of preoperative weight on the early and middle outcome of fixed platform medial unicompartmental knee arthroplasty  
**Chen (Zhengzhou/China)**

**5+ 5** Tibial crest alignment technique-an effective technique to improve coronal alignment of tibial component in tka for arthritic knees  
**Dalal (Cardiff/United Kingdom)**

**5+ 5** Effect of tranexamic acid on the timing of drainage tube removal in total knee arthroplasty  
**Wang (Zhengzhou/China)**

**5+ 5** A retrospective comparison of the effect of eMP CS and traditional PS prosthesis on ERAS of total knee arthroplasty  
**Ye (Guiyang City, Guizhou Province/China)**

**5+ 5** Identification of pain patterns in unhappy patients after total knee arthroplasty  
**Mathis (Basel/Switzerland)**

**10+ 5** Current concepts in ACL reconstruction using quad tendon  
**Musahl (Pittsburgh/United States)**

**5+ 5** Prospective analysis of functional performance during a “return-to-sports” test following 45 isolated or combined PCL reconstructions  
**Terai (Straubing/Germany)**

**5+ 5** Result of single stage early surgical treatment of high-grade multiligamentous knee injuries (Schenck Type III, IV and V)  
**Gupta (Patna/India)**

**10+ 5** Return to play following ACL reconstruction – where are we in 2020?  
**Gokeler (Paderborn/Germany)**

Farewell and Future announcements | 5:00 pm  
**Petersen (Berlin/Germany), Scheffler (Berlin/Germany), Zantop (Straubing/Germany)**

## Sponsors

International Knee Day likes to thank the following companies for their support!



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## Organization, information and registration

International Knee Day likes to thank the following companies for their support!

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