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**Williams A., Prof.**

Fortius Clinic London

**Zantop C.**

Return to play, Straubing

**Zantop T., PD Dr. med.**

Sporthopaedicum Straubing

**Zellner J., PD Dr. med.**

Klinik für Unfallmedizin, Caritas-Krankenhaus St. Josef Regensburg

*Information:*

Photographs and film recordings will be made during this event. These serve purposes of documentation and will also be used for the University Hospital's publicity work. If you wish to register an objection, please contact us on [andrea.gissibl@ukr.de](mailto:andrea.gissibl@ukr.de) by the day of the event at the latest.

**Meeting chairs**

Prof. Dr. med. Peter Angele

Prof. Dr. rer. nat. Denitsa Docheva

**Organisers**

PD Dr. med. Johannes Zellner

Dr. Girish Pattappa

**Venue**

Continental Arena Regensburg

Franz-Josef-Strauß-Allee 22

93053 Regensburg

**Registration time**

23.11.2018

**Symposium secretary**

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**Registration fee**

100,- €

90,- €

kostenlos

für AGA-Mitglieder

für AGA-Studenten

**Single Day**

60,- €

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# TIRM



## Translation in Regenerative Medicine



### Clinic and Polyclinic for Trauma Surgery

# TIRM 2018

Anterior Cruciate Ligament: Regenerative potential and novel clinical proposals

Continental Arena Regensburg

November 30<sup>th</sup> - December 1<sup>st</sup> 2018

## Dear colleagues,

The successful creation and implementation of regenerative medicine necessitates the constant exchange of information between basic scientists, clinicians (doctors, surgeons, sports therapists) and the medical industry to bring innovations to the clinic. The aim of the symposium is to provide a platform for this cross-talk and interdisciplinary discussion for those interested persons to develop and refine existing therapies.

Prof. Dr. med. P. Angele      Prof. Dr. rer. nat. D. Docheva

### Friday, November 30<sup>th</sup> 2018

#### 09:00 **Opening**

Docheva, Angele, Regensburg

#### **Anatomy and physiology/pathophysiology of the ACL**

Chair: Zantop T, Smigielski

#### 09:15 **Keynote: Ultrastructure and macroscopic morphology of ACL**

Smigielski, Warsaw

#### 09:35 **Normal and pathophysiological ACL Biomechanics and Gait**

Sigurðsson, Reykjavik

#### 09:50 **ACL biomechanics under physiological and pathophysiological situation**

Stein, Frankfurt

#### 10:05 **MRI analysis of ACL under physiological and pathophysiological conditions**

Welsch, Hamburg

#### 10:20 **ACL insertion point configurations and their implications on treatment strategies**

Siebold, Heidelberg

#### 10:35 **Coffee-Break**

#### **Cellular and molecular mechanisms of the ACL**

Chair: Murray, Eichhorn

#### 11:00 **Keynote: Biological aspects in ACL healing – is ligamentous remodeling possible?**

Schulze Tanzil, Nürnberg

#### 11:20 **Joint milieu and influence on ACL healing**

Roffi, Bologna

#### 11:35 **Partial ACL rupture – classification and indication for trephination**

Eichhorn, Straubing

#### 11:50 **PRP for treating partial ACL ruptures**

Di Matteo, Bologna

#### 12:05 **A novel silk fiber-based scaffold for ACL regeneration – development and in vivo testing**

Teuschl, Wien

#### 12:20 **Ligament - Bone insertion – biomechanical and histological aspects (preclinical)**

Kittl, Münster

#### 12:35 **Ligament - Bone insertion – physiological and pathophysiological implications (clinical)**

Weiler, Berlin

#### 12:50 **Lunch**

#### **ACL rupture and repair**

Chair: Johnstone, Petersen, Weiler

#### 13:50 **Keynote: Bridge-Enhanced ACL Repair: Translating from Lab to the Clinic**

Murray, Boston

#### 14:10 **Myofibroblast – a candidate cells within the ACL**

Menetrey, Genf

#### 14:25 **The role of blood supply for ACL healing**

Steinert, Agatharied

#### **Ligament preserving techniques Refixation of the ACL – when, how?**

#### 14:40 **What do we have learned from history?**

Kröll, Basel

#### **Mini battle: ACL preserving**

#### 15:00 **My technique**

Schmitt, München

#### 15:10 **My technique**

Ateschrang, Tübingen

#### 15:15 **Revision after ACL preservation: What tissue do we find?**

Herbort, Münster

#### 15:30 **Ligament bracing in complex knee injuries – what is different to isolated ligament injuries**

Frings, Hamburg

#### 15:45 **Coffee-Break**

#### **Prevention of ACL Injuries and Reruptures**

Chair: Hewett, Williams

#### 16:00 **Keynote: Higher failure rate after anatomical ACL graft positioning – do we really have to respect anatomy?**

Williams, London

#### 16:20 **Risk factors for ACL injuries**

Chomiak, Praha

#### 16:35 **Which structures protect the ACL?**

Eder, Donaustauf

#### 16:50 **Importance of nerve endings in the ACL**

Zellner, Regensburg

#### 17:05 **Medial Shelf Syndrome and association with traumata – results of a histopathological Study**

Grevenstein, Köln

#### 17:20 **Mechanoreceptors in the ACL – what do we know?**

Brochhausen, Regensburg

#### **Mini battle: Specific sport tests – what is necessary?**

#### 17:35 **Return to play**

Zantop C, Straubing

#### 17:45 **Back in action**

Hildebrandt, Innsbruck

#### 17:55 **Round table discussion Prevention programs**

#### 18:15 **FIFA 11+ and FIFA 11+kids**

Chomiak, Praha

#### 18:25 **VBG**

Krutsch, Regensburg

#### 18:35 **STOP X Dinner**

Petersen, Berlin

#### **Saturday, December 1<sup>st</sup> 2018**

#### **Conservative treatment of ACL injuries**

Chair: Pederzini, Lattermann

#### 08:30 **Keynote: ACL injury – can it be treated conservatively? Outcome and review of literature**

Hewett, Rochester

#### 08:50 **Keynote: ACL injury initiates posttraumatic OA regardless of surgical or non-surgical treatment. Potential strategies to reduce the long term impact.**

Lattermann, Boston

#### 09:10 **Equipoise and decision making issues for ACL injury – exploratory data from the ACL SNNAP trial**

Beard, Oxford

#### 09:25 **Do psychological aspects influence patient reported outcome and return to sport after ACL injury?**

Webster, Melbourne

#### 09:40 **Does delayed ACL reconstruction or treatment with exercise therapy alone influence prognostic factors for 5-year outcome?**

Lohmander, Lund

#### 09:55 **Criteria for conservative treatment of ACL instability**

Frobell, Lund

#### 10:05 **Criteria for surgical treatment of ACL instability**

Zantop T, Straubing

#### 10:15 **Round table discussion ACL rupture, what do we need for going conservative?**

#### 10:35 **Coffee-Break**

#### **Ligament substituting techniques**

Chair: Scheffler, Fleming

#### 11:00 **Keynote: Outcome after ACL reconstruction – results from the MOON cohort and MARS study group**

Spindler, Cleveland

#### 11:20 **Results and implications of the German ACL Registry**

Krutsch, Regensburg

#### 11:35 **Is a tendon appropriate for a ligament reconstruction – basic research aspects?**

Docheva, Regensburg

#### 11:50 **Graft-integration to the bone**

Weiler, Berlin

#### 12:05 **Sports specific implant choice for ACL reconstruction**

Efe, Marburg

#### 12:20 **Secondary prevention: How to prevent a re-rupture?**

Hoffmann, Donaustauf

#### 12:35 **Future perspectives: Do we need tissue engineered tendons or ligaments**

Steinert, Agatharied

#### 12:50 **Lunch**

#### **Failure of ACL reconstruction**

Chair: Spindler, Mayr

#### 13:50 **Keynote: Strategies for minimizing post-traumatic osteoarthritis after ACL injury**

Fleming, Providence

#### 14:10 **Where does the ACL graft fail – in the tendon or at insertion?**

Scheffler, Berlin

#### **Mini battle: How to perform the ACL revision?**

#### 14:25 **Single step revision**

Pederzini, Sassuolo

#### 14:35 **Staged revision**

Strobel, Straubing

#### 14:45 **Discussion with selected cases**

#### 14:55 **Coffee-Break**

#### **Detecting comorbidities for ACL reconstruction failure and treatment**

Chair: Strobel, Kröll

#### 15:30 **Keynote: Interaction between ACL, meniscus and cartilage – anatomy, stability and prevention of osteoarthritis**

Niemeyer, München

#### 15:50 **Measurement of rotational instability**

Mayr, München

#### 16:05 **Biomechanical aspects of anterolateral or posterolateral rotational instability of the knee**

Kittl, Münster

#### 16:20 **Influence of meniscus lesions**

Scheffler, Berlin

#### 16:35 **Cartilage and meniscus unit and implication to ACL insufficiency**

Brockmeyer, Homburg

#### 16:50 **Axis deviation and ACL insufficiency–when should it be corrected?**

Dickschas, Bamberg

#### 17:05 **Closing remarks**

Docheva, Angele, Regensburg

#### 17:15 **End of symposium**