

**1<sup>st</sup>**

**MUSK   YR**

# **Symposium**

**2<sup>nd</sup> and 3<sup>rd</sup> Dec. 2019  
Günzburg**

**Tagungszentrum  
Reisensburg**

## Introduction

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Dear colleagues, dear **MuSkITYRs**,

Welcome at the first symposium of the **MuSkITYR**, the MusculoSkeletal Interdisciplinary Translational Young Researchers. We, the **MuSkITYR** board, hope we will have an inspiring and interactive symposium with interesting scientific talks as well as with mentoring and updates on new methods.

**MuSkITYR** is a community organized by and aimed at young scientists. We welcome everyone with an interest in musculoskeletal research: students, PhD students, PostDocs and established scientists as supporting members. Our objective is to improve networking between young researchers. We support interdisciplinary and translational musculoskeletal research.

Our aims are

- ... strengthening the interest in musculoskeletal science across different societies,
- ... improving the alliance between clinical and basic science researchers,
- ... deepening communication and understanding between members of different disciplines,
- ... stimulate counseling and mentoring relationships with the help of established scientists.

To reach these goals, we organize a yearly meeting, open up a platform for networking and create space for **MuSkITYR** members at national conferences.

Funded in 2017 and indeed a *young* society, we are proudly welcoming you to this first of hopefully many symposiums to follow. At the beautiful, historic venue of the Reisensburg we look forward to create a stimulating environment for interdisciplinary networking.

Since we are still a growing organization, we would appreciate you to spread our spirit and bring new members to the **MuSkITYR** to join forces.

We hope we can make this symposium a fertile ground for new ideas, interdisciplinary collaborations and that we all can benefit from new input and have inspiring conversations.

The **MuSkITYR** -Board

Spokesperson: Marietta Herrmann (m-herrmann.klh@uni-wuerzburg.de)

Spokesperson deputy: Felix Schmidt (fel.schmidt@uke.de)

Board: Kai Böker, Verena Fischer, Ines Fössl, Franca Genest, Melanie Haffner-Luntzer, Alexander Kepler, Carl Neuerburg, Annika vom Scheidt, Elena Tsourdi  
(State Dec-2019)



## Scientific Programme

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### Monday, 02-Dec-2019

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<b>12:30 – 13:30</b>	Registration	
<b>13:30 – 14:00</b>	Opening	<i>MuSkITYRS Speakers Marietta Herrmann and Felix Schmidt</i>
<b>14:00 – 15:15</b>	Abstract Session I	Muskuloskeletal diseases and treatment <i>Chairs: Felix Schmidt, Zhiyao Yong</i>
<b>15:15 – 15:45</b>	Networking	
<b>15:45 – 16:30</b>	<b>Keynote lecture I</b>	<b>Franz Jakob: <i>Interactions between muscle and bone – where physics meets biology</i></b>
<b>16:30 – 17:45</b>	Abstract Session II	Endocrinology and bone integrity <i>Chairs: Carl Neuerburg, Deniz Ragipoglu</i>
<b>17:45 – 18:00</b>	Networking	
<b>18:00 – 19:00</b>	Mentoring	Careers of Martina Rauner and Franz Jakob <i>Chairs: Alexander Keppler, Annika vom Scheidt</i>
<b>19:30 – 22:00</b>	Dinner + get together	

### Tuesday, 03-Dec-2019

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<b>09:00 – 09:45</b>	<b>Keynote lecture II</b>	<b>Martina Rauner: <i>Osteohematology - interactions of blood and bone</i></b>
<b>09:45 – 10:30</b>	Methods I	Cell Analysis (Ines Foessler: Crispr/Cas9; Paul Muschler: Promega) <i>Chairs: Marietta Herrmann, Kai Böker</i>
<b>10:30 – 11:00</b>	Networking	
<b>11:00 – 11:30</b>	Methods II	Clinical Osteology (Franca Genest)
<b>11:30 – 12:45</b>	Abstract Session III	Cell biology of muskuloskeletal disease and regeneration <i>Chairs: Verena Fischer, Eric Grisolia Seifert</i>
<b>12:45 – 13:15</b>	Closing + feedback	
<b>13:30</b>	Departure	

## Contact Information

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**MuSkITYR** website: <https://www.muskityr.com>

**MuSkITYR** e-mail: [info@muskityr.com](mailto:info@muskityr.com)

## Session Content

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### Session I - Muskuloskeletal diseases and treatment

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<b>Carl Neuerburg</b>	Improved outcome in hip fracture patients in the aging population following co-managed care compared to conventional surgical treatment: A retrospective, dual-center cohort study
<b>Melanie Brand</b>	Integrin $\alpha 2\beta 1$ affects fracture healing by elevated collagen expression and impaired bone remodeling
<b>Marianne Hollensteiner</b>	Polyurethane-based synthetic bones mimic screw migration of intramedullary nails in human long bones
<b>Miriam Tschaffon</b>	Chronic psychosocial stress disturbs bone homeostasis and fracture healing
<b>Carl Neuerburg</b>	Die Bedeutung von Vitamin D bei der Behandlung der Beckeninsuffizienzfrakturen
<b>Stephanie Graser</b>	Zebrafish as a model for hypophosphatasia

### Session II – Endocrinology and bone integrity

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<b>Sayantani Nandi</b>	H-Ras as a new regulator of bone integrity
<b>Lilián Gutiérrez</b>	MicroCT-based quantification of termini in human trabecular bone
<b>Eric Grisolia Seifert</b>	Age dependency of regional differences in BMD and TBS in human vertebrae
<b>Anna Kornelia Siebels</b>	Ex vivo analysis of microstructural bone parameters in tibia and femur in diabetes mellitus using high-resolution peripheral quantitative computed tomography
<b>Valentina Biasin</b>	Sclerostin: moving from bone to lung
<b>Merle Stein</b>	Unravelling the effect of an osteopetrotic Snx10 mutation on bone, muscle and other tissues

### Session III – Cell biology of musculoskeletal diseases and regeneration

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<b>Stephan Altmann</b>	Glycoengineering as a tool to control the behavior of bone marrow-derived mesenchymal stromal cells in biofabrication processes
<b>Kevin Paxian</b>	The Glucocorticoid receptor (GR) orchestrates the crosstalk between Fibroblast-Like Synoviocytes and Macrophages to reduce Inflammation in Arthritis
<b>Martin Kuric</b>	Cancer Sticking to Bone: Analyzing the Adhesion between Mesenchymal Stem Cells and Multiple Myeloma both on Microscopic and Molecular Scale
<b>Deniz Ragipoglu</b>	The role of mast cells in ovariectomy-induced delayed bone repair
<b>Lena Steppe</b>	Evaluating the target cells of low-magnitude high-frequency vibration
<b>Zhiyao Yong</b>	IL-1 $\beta$ and Cathepsin-D Modulate Cellular Terminal Complement Complex Formation in Human Disc Tissue



## Venue, Accommodation and Travelling Information

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### The venue

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The „Wissenschaftszentrum Schloss Reisensburg“ (WZR) is located on a hill near Günzburg at the river Danube. Originally a castle, Burg Reisensburg, it was the residence of the Luitpoldinger Berthold von Reisensburg and other members of the Luitpoldinger family, expelled 955 from Bavaria. Adapted from a military castle to a more comfortable residence in the 17<sup>th</sup> century, it is now owned by the University of Ulm and renewed for meetings.

### The accommodation

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Participants will be hosted in single bedrooms with bathroom and toilet. Food and some nonalcoholic drinks during symposium and meals are included in the symposium package.

### Free Wifi

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Free wifi is available at the venue. The network is called “welcome”, no password is required.

### The travel

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#### By train:

The closest train station is Günzburg (track Stuttgart - Ulm - Augsburg - München). From there you can take a taxi. If you contact us early enough, we might be able to organize a ride with some other symposium participants travelling by car.

Or, if you are fed-up with sitting, you could walk:

From the trainstation take the left and follow Siemensstraße, continue your way on Dillinger Straße (B10 and B16). After 250m, turn left to Reisensburger Straße which becomes Günzburger Straße, then take Weihergasse at the left until you reach the Reisensburg.

#### By car:

**Anfahrt von der Autobahnausfahrt Günzburg (A8):** Weiter auf der B16 in Richtung Günzburg bis zum Kreisverkehr Günzburg-Nord. Links abbiegen auf die B10 / Dillinger Straße und nach ca. 150 Metern wieder links abbiegen in die Reisensburger Straße. Nach ca. 700 m weiter auf der Günzburger Straße, an der Dorfkirche links abbiegen in die Georg-Lachner-Straße und schließlich links die Bürgermeister-Johann-Müller Straße den Berg hinauf bis zum Schloss nehmen.

**Anfahrt aus Richtung Ulm (B10):** Von der B10 kommend in Günzburg rechts in die Dillinger Straße Richtung Reisensburg. Nach ca. 150 m links in die Reisensburger Straße. In Reisensburg auf der Günzburger Straße links abbiegen in die Georg-Lachner Straße. Dann links in die Bürgermeister-Johann-Müller Straße.

## Notes

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## Contact Information

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**MuSkITYR** e-mail: [info@muskityr.com](mailto:info@muskityr.com)

# Upcoming:

We are happy to invite you already for next year!  
Our second symposium will take place at the

“Göttingen Waldschlösschen”  
9<sup>th</sup> and 10<sup>th</sup> of November 2020.

We are already looking forward to seeing you again.



*Save the Date!!!*



We Thank our Supporters

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