



**Leopoldina**  
Nationale Akademie  
der Wissenschaften

# Symposium „Regenerative Medicine“



Including “Young Researchers Seminar”

**Tübingen,**  
July 24<sup>th</sup> - 26<sup>th</sup>, 2011

EBERHARD KARLS  
UNIVERSITÄT  
TÜBINGEN



## Organization

### Scientific Directors:

Prof. Dr. med. Hans-Peter Zenner, ML  
Prof. Dr. Dr. Johannes Schubert, ML  
Prof. Dr. med. Eberhard Zrenner, ML

### Local Organizers:

Priv.-Doz. Dr. med. Hubert Löwenheim  
Prof. Dr. med. Hans-Peter Zenner, ML  
Prof. Dr. med. Eberhart Zrenner, ML  
Prof. Dr. Marlies Knipper, ML  
Priv.-Doz. Dr. Marcus Müller

## Information

Kerstin Just  
University of Tübingen Medical Centre  
Dept. of Otorhinolaryngology, Head & Neck  
Surgery  
Elfriede-Aulhorn-Str.5  
72076 Tübingen, Germany  
Tel.: +49-7071-29-88177 or 88243  
Fax: +49-7071-29-3311  
E-Mail: kerstin.just@klinikum.uni-tuebingen.de

Peggy Glasowski  
German Academy of Science  
Leopoldina  
Emil-Abderhalden-Str. 37  
  
06108 Halle/Saale, Germany  
Tel.: 0049-345-4723912-12  
Fax: 0049-345-4723919  
E-Mail: leopoldina@leopoldina.org

### General information

We gladly accept the submission of poster abstracts until 15<sup>th</sup> July 2011. Further information under:  
<http://thrc.hno.medizin.uni-tuebingen.de/leopoldina/home>

### Certification / CME Points

Participating physicians will be awarded a total of 12 CME points by the State Medical Chamber of Baden-Württemberg for participation on the 25<sup>th</sup> and 26<sup>th</sup> of July. A certificate of participation will be handed out on Tuesday, 26<sup>th</sup> of July 2011 at the check-in desk.

### Travel support for young scientists

We provide an introductory "Young Researcher Seminar" on Sunday the 24<sup>th</sup> for young scientists at the pre- and post-doc level in order to attract them to the growing research field of Regenerative Medicine. As part of the funding the Leopoldina and the Boehringer Ingelheim Foundation provide support for young researchers to cover travel expenses up to 300,- €. Please submit the Travel Grant Form and a CV to the Symposium secretary Kerstin Just via e-mail.

### Tübingen

Tübingen is located in Southwest Germany near the black forest and accessed via Stuttgart airport.

### Industrial Exhibits

are welcome

## Sunday, 24<sup>th</sup> July

13.00 – 14:00 **Registration „Symposium Regenerative Medicine“**

### YOUNG RESEARCHERS SEMINAR – Chair: E. Zrenner

- 14:00-14:10      Opening  
**Prof. Dr. E. Zrenner**  
Tübingen, Germany
- 14:10-14:50      Regenerative Biology and Regenerative Medicine:  
“Evolution of new field in research and clinical application”  
**Priv.-Doz. Dr. H. Löwenheim**  
Tübingen, Germany
- 14:50-15:10      Neurodegeneration and Protection in the Retina –  
Perspective for Regeneration?  
**Dr. F. Paquet-Durand**  
Tübingen, Germany
- 15:10-15:30      Tissue engineering of bone  
**Dr. D. Alexander**  
Tübingen, Germany
- 15:30-15:45      Coffee Break
- 15:45-16:15      Perspectives for Young Researches  
Nachwuchsakademie:  
“Protection – Regeneration – Restitution”  
**Prof. Dr. E. Zrenner, ML**  
Tübingen, Germany
- 16:15-16:45      Career pathways for Young Researchers  
in academia versus industry  
**Dr. Dr. S. Biskup**  
Cegat GmbH, Tübingen, Germany
- 16:45-17:30      **Laboratory Tour and “Meet the Principle Investigator**

### REGISTRATION AND RECEPTION

18.00 – 20:00      **Registration and Reception „Symposium Regenerative Medicine“:**  
Weingalerie in der Kelter  
Schmiedtorstr. 17  
72070 Tübingen

**Monday, 25<sup>th</sup> July**

**OPENING OF THE SYMPOSIUM**

- 08:30-08:40      Welcome  
**Prof. Dr. H.P. Zenner, ML**  
Board of Directors, National Academy of Sciences Leopoldina, Halle
- 08:40-08:50      Opening remarks  
**Prof. Dr. I.B. Autenrieth**  
Dean of the Faculty of Medicine, Eberhard Karls University, Tübingen
- 08:50-09:00      Introduction to the topics of the symposium  
**Priv.-Doz. Dr. med. H. Löwenheim**  
Tübingen  
Principle Meeting Organizer

**PRINCIPLES OF REGENERATION –  
Chair: H. Löwenheim**

- 09:00-9:45      Principles of cellular regeneration  
**Prof. Dr. A. Nordheim**  
Tübingen, Germany
- 09:45-10:15      Coffee Break
- Principles of regeneration in model organisms**
- 10:15-11:00      Cell death as a driving force for regeneration  
**Prof. Dr. B. Galliot**  
Geneva, Switzerland
- 11:00-11:45      Principles of regeneration in urodels  
**Prof. Dr. P.A. Tsonis**  
Dayton, USA
- 11:45-13:30      Lunch and **Poster Session**

## Monday, 25<sup>th</sup> July

### REGENERATION IN HEARING IMPAIRMENT –

Chair: M. Ueffing

- 13:30-14:15      Defining clinical needs for regenerative medicine in hearing  
**Prof. Dr. T. Nakagawa**  
Kyoto, Japan
- 14:15-15:00      Mechanisms of hair cell regeneration in the vertebrate inner ear  
**Prof. Dr. M. Warchol**  
St. Louis, USA
- 15:00-15:15      Coffee Break
- 15:15-15:55      Aspects of regeneration in the human inner ear  
**Prof. Dr. Helge Rask-Andersen**  
Uppsala, Sweden
- 15:55-16:35      Generation and use of stem cells for the inner ear  
**Dr. Pascal Senn**  
Bern, Switzerland
- 16:35-17:15      Drug development for regeneration of hair cells  
**Priv.-Doz. Dr. med. H. Löwenheim**  
Tübingen, Germany
- 17:30-18:30      **Poster Session**
- 19:00              Departure Gala Dinner
- 19:30              Reception at the Gala Dinner

**Tuesday, 26<sup>th</sup> July**

**REGENERATION IN MESENCHYMAL TISSUES –**

**Chair: J. Schubert**

**Vascularization and differentiation**

- 08:30-09:10      The role of vascularization  
**Prof. Dr. Dr. J. Kleinheinz**  
Münster, Germany
- 09:10-09:50      Osteogenic differentiation of stem cells  
**Priv. Doz. Dr. Dr. J. Handschel**  
Düsseldorf, Germany
- 09:50-10:10      Coffee Break

**Clinical application**

- 10:10-10:50      Implantation of ex vivo cultured cells and tissues  
**Prof. Dr. Dr. G. Lauer**  
Wien, Austria
- 10:50-11:30      Regenerated cartilage - Regeneration in Head and Neck: is there a future?  
**Prof. Dr. W. Puelacher**  
Innsbruck, Austria
- 11:30-12:10      Bone tissue engineering in reconstructive surgery – basic research and  
clinical application  
**Prof. Dr. Dr. S. Reinert**  
Tübingen, Germany
- 12:10-13:30      Lunch and **Poster Session**

## Tuesday, 26<sup>th</sup> July

### REGENERATION IN VISUAL IMPAIRMENT –

Chair: E. Zrenner

- 13:30-14:10      Optogenetic approaches for restoring photosensitivity in retinitis pigmentosa  
**Dr. T. Münch**  
Tübingen, Germany
- 14:10-14:50      Retinal stem cells  
**Prof. Dr. D. van der Kooy**  
Toronto, Canada
- 14:50-15:10      Coffee Break
- 15:10-15:50      Neuronal regeneration at eye level  
**Dr. M.O. Karl**  
Dresden, Germany
- 15:50-16:30      Regeneration of vision in inherited retinal dystrophies  
**Prof. Dr. M. Seeliger**  
Tübingen, Germany
- 16:30-17:10      Müller glia as a potential source of stem cells for human therapies  
to treat retinal degenerative disease  
**Dr. A. Limb**  
London, Great Britain
- 17:10-17:30      Coffee Break
- 17:30-18:30      ROUND TABLE – Chair: H.P. Zenner**  
H. Löwenheim, A. Nordheim,  
J. Schubert, M. Ueffing, E. Zrenner
- Interdisciplinary discussion**

# Leopoldina Symposium - Registration Form

Deadline for registration: 12<sup>th</sup> July, 2011

E-Mail-Address

Title

First name

Last name

Institution

Street

Post code, City,  
Country

Name(s) of accompanying person(s):

## Conference fees include:

- Participation in the scientific sessions
- Reception in „Die Kelter“ Tübingen
- Lunches and snacks & beverages (during breaks)

## I will join

	Fee	Number of participants	insert total fee
<b>Scientists</b>	100,-€		
<b>Students</b>	30,-€		
<b>Gala Dinner</b>	60,- €		
<b>TOTAL AMOUNT</b>			

Please complete the form and send it via mail/FAX or regular mail to:

Kerstin Just  
Univ.-HNO-Klinik  
Elfriede-Aulhorn-Str. 5  
72076 Tübingen  
Germany

e-mail: [kerstin.just@klinikum.uni-tuebingen.de](mailto:kerstin.just@klinikum.uni-tuebingen.de) or Fax: +49 (0)7071 293311



**Payment method:**

Please transfer the entire amount to the following account:

**Bank transfer:**

**International**

Account Holder: Universitätsklinikum Tübingen

Baden-Württembergische Bank Stuttgart

IBAN: DE 41 6005 0101 7477 5037 93

BIC/SWIFT-Nr.: SOLADEST

**Important: Please indicate the reference**

**D.33.03799/9251901 - Symposium Leopoldina**

**Germany**

Account Holder: Universitätsklinikum Tübingen

Baden-Württembergische Bank Stuttgart

Konto-Nr.: 7477 5037 93

BLZ: 600 501 01

**Important: Please indicate the reference**

**D.33.03799/9251901 - Symposium Leopoldina**

# Leopoldina Symposium – Abstract Submission

Deadline for submission 15<sup>th</sup> July, 2011

Title (Arial, font size 16, bold)

Authors (Arial, font size 14, bold)

Affiliation (Arial, font size 12, bold)

Text (Arial font size 12, Up to 700 words)

Please send the completed form as [doc or rtf document](#) via e-mail to:

**[Kerstin.just@klinikum.uni-tuebingen.de](mailto:Kerstin.just@klinikum.uni-tuebingen.de)**

Ref: Leopoldina Symposium – Abstract submission

# Leopoldina Symposium – Travel Grant Application Form

Deadline: 15<sup>th</sup> July, 2011

*E-Mail-Address*

*Title*

*First name*

*Last name*

*Institution*

*Street*

*Post code, City,  
Country*

**Motivation to participate:**

**Current Research Interest:**

**Future Research Interest:**

**Please attach your current CV**

**Please complete the form and send it via mail/FAX or regular mail to:**

Kerstin Just, Univ.-HNO-Klinik , Elfriede-Aulhorn-Str. 5 , 72076 Tübingen, Germany  
e-mail: [kerstin.just@klinikum.uni-tuebingen.de](mailto:kerstin.just@klinikum.uni-tuebingen.de) or Fax: +49 (0)7071 293311

# Leopoldina Symposium – Hotel Reservation

Please, complete and fax or mail to

Verkehrsverein Tübingen  
An der Neckarbrücke 1  
72072 Tübingen  
Germany  
Tel.: +49 - 7071 9136-0  
Fax: +49 - 7071 350 70  
E-Mail: [mail@tuebingen-info.de](mailto:mail@tuebingen-info.de)

## Leopoldina Symposium „Regenerative Medicine“

Accommodation Form	
Name, First Name:	
Institute/Company	
Street:	
Country, Postal Code, City	
E-Mail:	
Phone:	Fax:

I hereby request the Tourist Office Tübingen (Verkehrsverein) to make the following hotel arrangements. An accommodation voucher will be sent in return.

I would prefer, if available (prices are for one night, incl. Breakfast and VAT):

Category	Single room	Double room
Budget (limited)	<input type="checkbox"/> € 35,- to € 56,-	<input type="checkbox"/> € < 86,-
Midprice	<input type="checkbox"/> € 56,- to € 78,-	<input type="checkbox"/> € 83,- to € 115,-
Luxury	<input type="checkbox"/> € 78,- to € 99,-	<input type="checkbox"/> € 115,- to € 167,-

Arrival by:     plane     train     car

Date of arrival: \_\_\_\_\_

Date of departure: \_\_\_\_\_

Date/Signature: \_\_\_\_\_

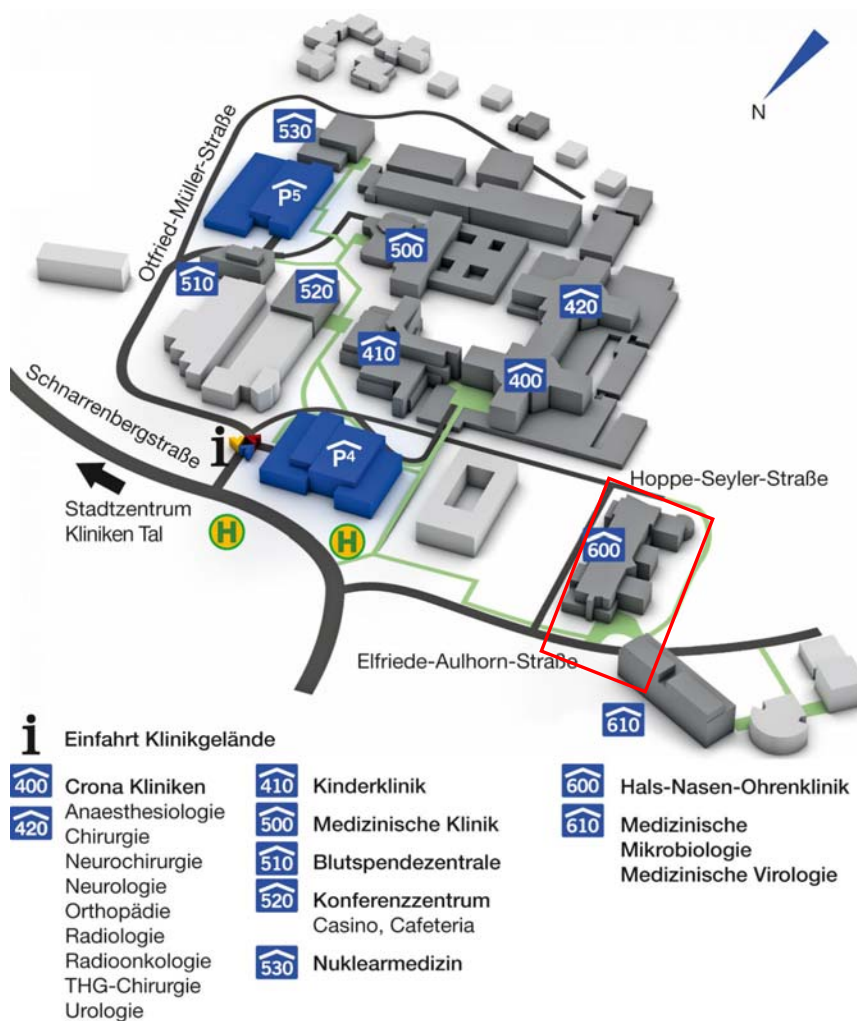
# Leopoldina Symposium – Arrival Instruction

## Address

Department of Otorhinolaryngology  
Elfriede-Aulhorn-Strasse 5  
D-72076 Tübingen

phone: +49 (0)7071-29 88088  
fax: +49 (0)7071-29 4950

**How to find us in Tübingen:** “Hals-Nasen-Ohrenklinik” Building No. 600 in the map below.



## **Airport:**

Stuttgart **Airport** is situated approximately 35 kilometres from Tübingen. By car, Tübingen can be reached via an expressway (B27) in approximately 20 minutes. Please reserve a little more time during rush-hour periods. A taxi from the airport to the Tübingen University Hospitals costs approximately 40 Euro. A bus shuttle service operates several times a day between the airport and Tübingen main railway station.

## **Travelling by train or bus:**

There are numerous national and international train connections to the main railway station (Hauptbahnhof) Stuttgart. There are local trains to Tübingen from Stuttgart. The University Hospital Clinics can be easily reached by using the public town bus services ("Stadtbus"). All buses leave from the bus stop directly opposite the main station

Please check whether your train or flight ticket is also valid for bus services. The "Berg" Hospitals can be reached with bus routes no. 5, 13, 17, 18, 19, no. 14 from the West railway station ("Westbahnhof"), and the night buses N93 and N94.

## **How to reach us by car:**

### **From Stuttgart airport:**

- Leave the airport and head for the B27 (Stuttgart - Tübingen).
- Enter the B27 and head south, direction Tübingen.
- In Tübingen, leave the B27 at the second exit: "Tübingen Nord, Kliniken, Kunsthalle" (Tübingen North, Clinics, Arts Centre).
- Follow the signs for "Zentrum (town centre), Univ.-Kliniken").
- Carry on until you pass the "Jet"-gas station.
- Turn the next right beyond the gas station, into "Nordring" and follow the signs for "Univ.-Kliniken-Schnarrenberg" (Schnarrenberg Clinics).
- Carry on for approximately 5 km until you see the Schnarrenberg Clinics at the right hand side.
- Turn right here to both car parks.
- The entrance to the Parkhaus (multi-storey car park) "CRONA" is immediately on the right, the entrance to the Parkhaus (multi-storey car park) "Medizinische Klinik" is 400 m further on the left.

### **From Frankfurt / Karlsruhe A8:**

- Continue on the A8 motorway until you reach the exit Tübingen / Reutlingen (this is the exit after the "Kreuz Stuttgart" - motorway intersection Stuttgart).
- Enter the B27 and head south, direction Tübingen.
- From here continue as described for "From Stuttgart airport"

### **From München (Munich) A8:**

- Enter the exit for Tübingen / Reutlingen
- At the traffic lights, turn left direction airport (Flughafen).
- Carry on past the airport and continue as described for "From Stuttgart airport"

### **From Zürich:**

- Continue on the N4 until you reach the "Autobahnkreuz Singen" (motorway intersection Singen)
- Enter the motorway A81, direction Stuttgart.
- Take the exit for Rottenburg and carry on direction Tübingen.
- After approx. 4 km, take two left turns, direction Wümlingen / Tübingen / Reutlingen.
- In Wümlingen, turn right and follow the signs for "Tübingen-Süd, Hirschau".
- At the first set of traffic lights, approx. 2km after Hirschau, turn left direction Tübingen.
- After the town sign for Tübingen, move into the lane for "Herrenberg, Nordstadt, Kliniken".
- At the third set of traffic lights, turn left and carry on through the tunnel.
- After the tunnel move into the right-hand lane for the "Univ.-Kliniken Innenstadt, Zentrum".
- After the "Esso"-gas station turn left into Belthlestrasse.
- Follow this street for approx. 200m until you reach the traffic lights, turn left into Schnarrenbergstrasse.
- After approx. 1.5 km you will see the Schnarrenberg Clinics on the left hand side ("Schnarrenbergkliniken")
- Turn left here for both car parks. The entrance to the Parkhaus (multi-storey car park) "CRONA" is immediately on the right, the entrance to the Parkhaus (multi-storey car park) "Medizinische Klinik" is 400 m further on the left.

### **From Basel:**

- Continue on the A5 motorway until you reach Freiburg.
- Follow the B14 direction Donaueschingen
- Enter the Motorway A81 direction Stuttgart. Carry on until the exit Rottenburg. Enter this exit and head direction Tübingen. Continue as in the paragraph "From Zürich".



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Cover Image:

The J. Paul Getty Museum, Villa Collection, Malibu, California,  
Artist: Attributed to Eagle Painter (Greek (Caeretan), active 530-550 BC),  
Title: Caeretan Hydria, Water Jar  
Date: about 525 B.C.  
Medium: Terracotta