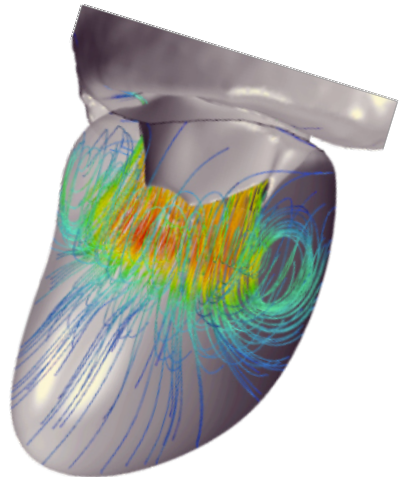
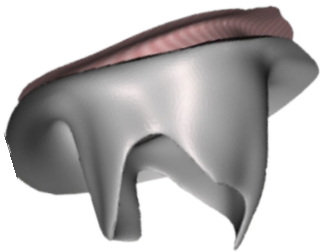




DEUTSCHES HERZZENTRUM BERLIN  
STIFTUNG DES BÜRGERLICHEN RECHTS



# New Valve – New Power



17<sup>th</sup> DHZB Lange Symposium  
September 17/18, 2022



dbb forum berlin  
Friedrichstraße 169 - 170  
10117 Berlin

 [www.lange-symposium.de](http://www.lange-symposium.de)

Dear colleagues,

After two years pandemic and severe restriction in personal and individual scientific exchange we would like to start again with a face-to-face meeting regarding Congenital Heart Disease. Therefore, we would like to cordially invite you to our annual symposium in Berlin in 2022.

This year's symposium will be dedicated to the topic of interventional heart valve treatment.

## **“New Valve – New Power”**

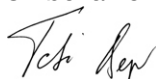
Since the world's first successful transcatheter valve implantation in 2000 by Prof. Philipp Bonhoeffer in the pulmonary position, transcatheter aortic valve implantation by Prof. Alain Cribier followed just 2 years later. Recently, the AV valves have become the special focus of interest in the development of novel technology. Thus, transcatheter therapy methods are currently available for all 4 heart valves. Overall, there has been an indescribably rapid and scientifically sound technological development in the field of transcatheter heart valve therapy, which significantly enhanced therapy safety and expanded options for therapy.

With this symposium we would like to bring you closer to the groundbreaking and latest findings and developments in the field of transcatheter heart valve therapy and also dare to look into the future. Besides the special indication of pulmonary valve therapy for congenital heart defects, most of the technological developments take place in the area of acquired heart valve defects. Therefore, we also want to discuss the extent to which all these new developments can benefit our patients with congenital heart defects. We are pleased that we have gained very well-known specialists who will cultivate scientific exchange with you in an open and friendly atmosphere with many opportunities for discussion as part of the DHZB Lange Symposium.

To complement the scientific program there will be a *Get Together* at the venue on the evening of September 17, 2022 to allow for continued discussion and to get in contact with each other.

We are very much looking forward to a very interesting symposium and hope that we will be able to welcome you in large numbers in September 2022.

On behalf of the entire scientific committee



Prof. F. Berger MD  
Director, Dept. of Congenital  
Heart Disease / Pediatric Cardiology

**Education credits: CME 16 points and EBAC 13 points.**

# Saturday, September 17, 2022

08:45	Opening	
08:55	Welcoming and "Warm up"	Berger
<b>I. Peter E. Lange Lecture</b>		
09:00	Heart valves - A miracle of nature	Sievers
<b>II. Aortic Valve</b>		
Moderators: Unbehaun / Klein		
09:30	Cutting edge of TAVR therapy	Unbehaun / Klein
09:50	Are we ready for All-Comers Transcatheter Aortic Valve Implantation?	Blankenberg
10:10	The door is open for TAVR in ACHD	Kaleschke
10:30	In silico development and testing of Aortic Valves	Brüning
10:50	<b>Break</b>	
<b>III. Mitral Valve</b>		
Moderators: Kempfert / Noack		
11:10	Clipping and annulus management	Noack
11:30	Transcatheter Mitral Valve replacement	Conradi
11:50	The surgical answer - Now and tomorrow	Kempfert
12:10	Congenital mitral valve disease needs more than a clip	Cho

# Saturday, September 17, 2022

## IV. Grand Debate

Moderators: Blankenberg / Falk

- |       |                                       |        |
|-------|---------------------------------------|--------|
| 12:30 | Life-Time Management of valve therapy | Falk   |
| 12:50 | Grand Debate left-sided heart valves  | Plenum |
| 13:15 | <b>Lunch Break</b>                    |        |

## V. Keynote Lecture

- |       |                                                                           |              |
|-------|---------------------------------------------------------------------------|--------------|
| 14:30 | Combining Imaging and Omics for Precision medicine in heart valve disease | S. Nordmeyer |
|-------|---------------------------------------------------------------------------|--------------|

## VI. Pulmonary Valve

Moderators: J. Nordmeyer / Qureshi

- |       |                                                                     |              |
|-------|---------------------------------------------------------------------|--------------|
| 14:50 | Two decades of ballon expanding valves                              | Schubert     |
| 15:10 | All good with Transcatheter PVR or are there clouds at the horizon? | J. Nordmeyer |
|       | <b><i>Self expanding valves in the RVOT</i></b>                     |              |
| 15:30 | ... the US - perspective                                            | Gillespie    |
| 15:50 | ... the EU - perspective                                            | Qureshi      |
| 16:10 | Ask the experts                                                     |              |
| 16:25 | <b>Break</b>                                                        |              |

## VII. Tricuspid Valve

Moderators: Besler / Lurz

- |       |                                                                                 |           |
|-------|---------------------------------------------------------------------------------|-----------|
| 16:55 | Tricuspid valve dysfunction is a system's disease                               | Besler    |
| 17:15 | Transcatheter solutions for tricuspid valve disease                             | Dreger    |
| 17:35 | Tricuspid valve in pressure loaded RV - Ready to enter the interventional road? | Lurz      |
| 17:55 | Congenital Tricuspid Valve disease - Too complicated for devices                | Photiadis |
| 18:15 | Ask the experts                                                                 |           |
| 18:30 | <b>Adjourn</b>                                                                  |           |

## VIII. Sunday Morning Highlight Lecture

09:30 The Fontan circulation  
– A paradigm for a valveless circulation – Rychik  
Wishful thinking or valid option?

## IX. Valveless Circulation ...

Moderators: Rychik / Zimpfer

09:50 Valved Fontan conduit: Ovroutski  
Back to the roots - An animal model

10:10 AV valves in univentricular circulation Gaudin

10:30 Pre TX - Conditioning in failing fontan with Zimpfer  
valved silikon pump

10:50 Physiological adaptation after TX in single Coats  
ventricle - From one to four valves

11:10 Ask the experts

11:25 **Break**

## X. Keynote Lecture

11:50 How mechanotransduction can stimulate Vogel  
growth in living tissues

## XI. Pediatric Heart Valves

Moderators: Photiadis / B. Schmitt

- |       |                                                                                       |            |
|-------|---------------------------------------------------------------------------------------|------------|
| 12:10 | Pediatric heart valve replacement: An interplay of regeneration and degeneration      | Stamm      |
| 12:30 | Autologous heart valves: The answer to all of our questions?                          | B. Schmitt |
| 12:50 | Finally a heart valve for children                                                    | Emani      |
| 13:10 | New heart valves in industrialised and emerging countries: Does it make a difference? | Zilla      |
| 13:30 | Ask the experts                                                                       |            |
| 13:45 | <b>Lunch Break</b>                                                                    |            |

## XII. Computational Era in Heart Valve Disease - *DZHK Session*

Moderators: Kühne / K. Schmitt

- |       |                                                                       |            |
|-------|-----------------------------------------------------------------------|------------|
| 14:45 | Automated risk prediction of outcomes on the basis of real world data | Kelm       |
| 15:05 | Computational models for personalized interventional planning         | Vellguth   |
| 15:25 | Machine learning for risk assessment of TAVR                          | Hennemuth  |
| 15:45 | Augmented reality guidance in for AV valve interventions              | Sündermann |
| 16:05 | Ask the experts                                                       |            |

## XIII. Conclusion

16:15	Lottery Drawing	Kühne / Nordmeyer / Schmitt
16:25	Closing remarks	Berger
16:30	<b>End of Symposium</b>	



# Faculty

Prof. Christian Besler MD  
Leipzig, Germany

Prof. Stefan Blankenberg MD  
Hamburg, Germany

Jan Brüning PhD  
Berlin, Germany

Mi-Young Cho MD  
Berlin, Germany

Louise Coats, MD, PhD  
Newcastle, UK

Prof. Lenard Conradi MD  
Hamburg, Germany

Prof. Henryk Dreger MD  
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Prof. Volkmar Falk MD  
Berlin, Germany

Prof. Regis Gaudin, MD  
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Prof. Matthew J. Gillespie, MD  
Philadelphia, USA

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Marcus Kelm MD  
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Prof. Jörg Kempfert MD  
Berlin, Germany

Prof. Christoph Klein MD  
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Prof. Titus Kühne MD  
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Prof. Philipp Lurz MD  
Leipzig, Germany

Prof. Thilo Noack MD  
Leipzig, Germany

Prof. Johannes Nordmeyer MD, PhD  
Berlin, Germany

Sarah Nordmeyer MD, PhD  
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Prof. Stanislav Ovroutski MD  
Berlin, Germany

Prof. Joachim Photiadis MD  
Berlin, Germany

Sir Prof. Shakeel A. Qureshi MD  
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Philadelphia, USA

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Prof. Hans-Hinrich Sievers MD  
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Prof. Christof Stamm MD  
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Prof. Simon Sündermann MD  
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Katharina Vellguth, PhD  
Berlin, Germany

Prof. Viola Vogel PhD  
Berlin, Germany

Prof. Peter Zilla MD PhD  
Cape Town, South Africa

Prof. Daniel Zimpfer MD  
Vienna, Austria

# Under the auspices of:



Deutsche Gesellschaft für  
Pädiatrische Kardiologie und  
Angeborene Herzfehler e.V.



**DZHK**

DEUTSCHES ZENTRUM FÜR  
HERZ-KREISLAUF-FORSCHUNG E.V.

Deutsches Zentrum  
für Herz-Kreislauf-Forschung



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CARDIOLOGY



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Adult Congenital Heart Disease



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# Organization and Registration

## Scientific Committee:

Prof. F. Berger MD | Prof. K. Schmitt MD |

Prof. J. Nordmeyer MD PhD | Prof. T. Kühne MD

## Organization Committee:

Heike Schultz | Daniela Moeske-Scholz | Sonja Wibbeke

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## Please register online:

[info@lange-symposium.de](mailto:info@lange-symposium.de) | [www.lange-symposium.de](http://www.lange-symposium.de)

## Registration fee:

	<b>Regular</b>	<b>Reduced</b> (Juniors/Students/Nurses)
until Jun 30	<b>260,- €</b>	<b>210,- €</b>
until Sep 16	<b>300,- €</b>	<b>230,- €</b>
onsite	<b>350,- €</b>	<b>260,- €</b>

## Please transfer the appropriate amount to:

**Bank:** Commerzbank AG

**Name:** DHZB DL GmbH

**IBAN:** DE16 1008 0000 0667 5700 00

**BIC:** DRESDEFF100

**Reference:** kikasymp2022 (and your name)

**Education credits: CME 16 points and EBAC 13 points.**

# Hope to see you all again at the 18<sup>th</sup> DHZB Lange Symposium Berlin, September 16/17, 2023



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10117 Berlin

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