

**GENERAL INFORMATION**

**VENUE**

Kaiserin-Friedrich-Haus  
 Robert-Koch-Platz 7  
 10115 Berlin (DE)  
 www.kaiserin-friedrich-stiftung.de



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**DATE**

30 November–02 December

**CONFERENCE WEBSITE AND REGISTRATION**

www.4r-vision.com

**CHAIR**

Bernhard Sabel (Magdeburg/DE)

**SCIENTIFIC SECRETARY**

Steffi Matzke (Magdeburg/DE)  
 Sylvia Prilloff (Magdeburg/DE)

**SCIENTIFIC ADVISORY COMMITTEE**

Amir Amedi (Jerusalem/IS)	Jeff Goldberg (Stanford, CA/US)
Andrea Antal (Göttingen/DE)	Huiguang He (Beijing/CN)
Larry Benowitz (Harvard, MA/US)	Joost Heutink (Groningen/NL)
Thomas Brunner (San Francisco, CA/US)	Merabet Lofti (Boston, MA/US)
Tanuj Dada (New Dehli/IN)	Kwok-Fai So (Hong Kong/CN)
	Ningli Wang (Beijing/CN)

**ONLINE-REGISTRATION**

	early bird until	late until	onsite
	31 August	29 November	
Regular	285 EUR	320 EUR	350 EUR
Student	135 EUR	165 EUR	180 EUR
Industry			600 EUR
Social dinner			60 EUR

**INDUSTRIAL EXHIBITION**

The international conference will be accompanied by a specialized industrial exhibition. Interested companies are invited to request information on the exhibition modalities from the conference organizer CONVENTUS.

**GENERAL INFORMATION**

**CONGRESS ORGANIZER**

Conventus Congressmanagement & Marketing GmbH  
 Dana Nostitz  
 Carl-Pulfrich-Straße 1 | 07745 Jena (DE)  
 Phone +49 3641 31-16-398 | vision@conventus.de

**HOTELS**

The following hotels hold a reserved contingent of rooms at special rates. Please quote the special conference booking code "Low Vision 2018" when booking so that you may benefit from the special conference rates.

**H+ Hotel Berlin Mitte**

Chausseestraße 118–120 | 10115 Berlin | Germany  
 Reservation: 0049 (0) 30 27 87 550



© www.h-hotels.com

**SPONSOR & EXHIBITORS**

**PREMIUM-COOPERATION-PARTNER**

Savir GmbH (Berlin/DE)



**EXHIBITORS**

Santhera Germany GmbH (Munich/DE)

**„ICH BIN EIN BERLINER!“**

Follow in the footsteps of politicians, celebrities and tourists alike. Discover a city that has changed more than any other city in the world over the last few years. Berlin brings together the past, present and future in a truly unique way.

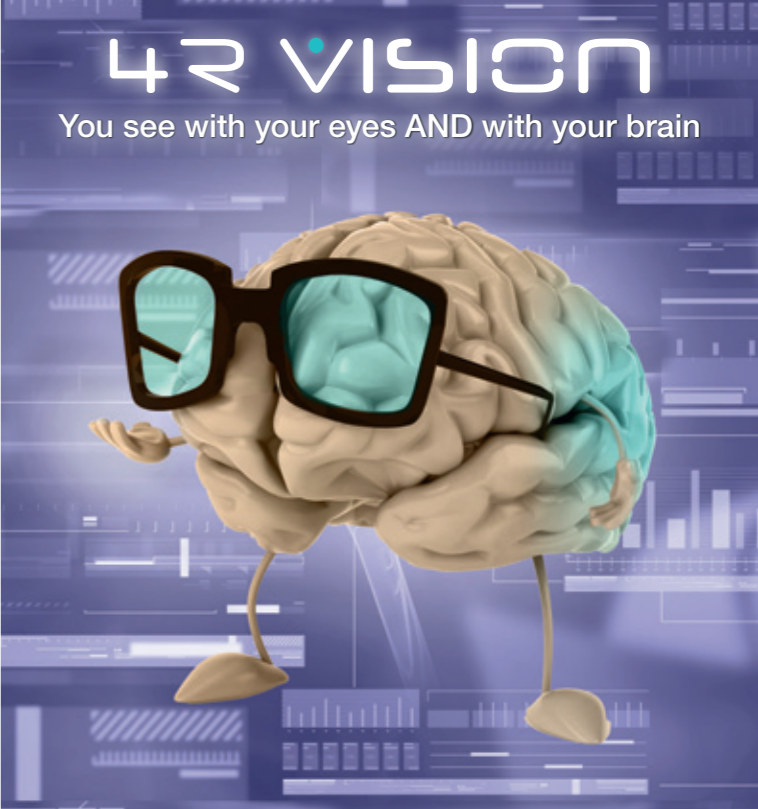
With an area nine times bigger than Paris, more bridges than Venice, the world’s longest open air gallery, Europe’s largest department store KaDeWe and the most zoo animals in the world, Berlin surely has something to offer for everyone.

For culinary delights, Berlin’s multiculturalism awaits with a dazzling variety of cuisines, local specialties and its very own genuine beer.

Cultural enthusiasts can enjoy three running opera houses, 150 theatres and stage venues and “more museums than rainy days” (175 museums to be exact).

And with 30% of the city being covered by parks and woods or rivers, lakes or waterways, a place to unwind is only a few steps away.

“Berlin – the place to be”  
 be open, be free, be Berlin.



**5<sup>th</sup> INTERNATIONAL CONFERENCE  
 “LOW VISION AND THE BRAIN”**

**Rescue, Regeneration, Restoration and Rehabilitation**  
 30 NOVEMBER–02 DECEMBER 2018 | BERLIN/GERMANY

in cooperation with **GLAUCOMA RESEARCH FOUNDATION**



## WELCOME NOTE



Welcome to Berlin, the city of art, culture and science. This is the city where Hermann von Helmholtz – founder of psycho-physics – and Alexander v. Humboldt – the father of empirical science – were known for their visionary contributions on exploring the human mind and the laws of nature. In their spirit, this conference explores the topic of vision loss after damage to the retina, optic nerve or brain. Such neurodegenerations are considered irreversible, wherein the best practice is currently to slowing decline through eye drops or surgery.

The retina, optic nerve and visual cortex present very particular challenges in clinical management as so many patients are left with permanent visual loss as a result of late presentation or a lack of universally effective treatments. But progress in science and technology gives rise towards a more optimistic future of prevention, compensation and even improvement / restoration of low vision. These advances impact different visual system diseases affecting the nervous system, including typical “eye diseases” such as glaucoma, optic neuropathy, diabetic retinopathy, macular degeneration, retinitis pigmentosa and amblyopia. But low vision is also found in neurological diseases of the brain’s visual system including stroke and trauma, normal aging, dementia, PCA, Huntington’s, Parkinson’s and other diseases.



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“4r-vision” is an international and multidisciplinary conference that will highlight basic science, diagnostic and treatment approaches that aim to modulate nervous system structure and function through rescue, regeneration, restoration and rehabilitation.

Besides the retina – with its 1 gram of tissue weight – the brain’s visual system (>100 gr) is also a potential target to offer new research and therapy opportunities which might greatly impact patient care in the future. This conference will showcase recent paradigm shifts in basic science, clinical care, and industry innovations, including drugs and devices that can reduce cell death, stem cells and regeneration, behavioural training and electrical devices (prosthesis and non-invasive brain stimulation) that restore some vision and/or strengthen residual visual capacities through brain plasticity. In addition, psychological topics will be discussed, such as the role of stress and coping difficulties in low vision, substitution and compensation.

4r-vision is unique as it addresses the eye-brain interaction in an interdisciplinary manner, touching the fields of ophthalmology, neurology, neuropsychology, rehabilitation medicine, engineering, pharmacology and technology. 4r-vision will present next steps to brighten the light at the end of the tunnel of blindness, highlighting innovative methods that might provide more wiggle room to reduce or prevent vision loss and improve it. The conference is an interdisciplinary hub for exchanging scientific advances, innovation and ideas for commercialization, to tackle this major unsolved problem in medicine.

I look forward to welcoming scientists and clinicians from all over the world to participate in the exciting atmosphere of 4r-vision conference in this city of art, culture, and science.

Bernhard A. Sabel, PhD

## SCIENTIFIC INFORMATION

### INVITED SPEAKERS (\* REQUESTED)

Larry Benowitz (Boston, MA/US)  
Michel Cayouette (Montreal/CA)  
Alain Chedotal (Paris/FR)  
Adriana Di Polo (Montreal/CA)  
Eldon Geisert (Irvine, CA/US)  
Jeffrey L. Goldberg (Palo Alto, CA/US)  
Zhigang He (Boston, MA/US)\*  
Andrew D. Hubermann (Stanford, CA/US)\*  
Shane Liddelow (New York, NY/US)  
Kai Liu (Hong Kong/CN)  
Thomas A. Reh (Seattle, WA/US)\*  
Maria Adele Rueger (Köln/DE)  
Derek S. Welsbie (La Jolla, CA/US)\*  
Donald J. Zack (Baltimore, MD/US)\*

### SESSIONS AND MAIN TOPICS

- Special Topic: “Regeneration and Rescue” (Organizer: L. Benowitz & J. Goldberg)
- Degeneration, neuroprotection and rescue
- Vascular system, intraocular and intracranial pressure
- Brain reorganization and neuroplasticity
- Restoration and recovery
- Augmentation/Substitution/Compensation
- Visual Rehabilitation and neuropsychological interventions
- Psychosomatic challenges, psychology of coping, and life style
- Out-of-the-box and alternative medicine
- Neurotechnology and drugs
- Innovation and commercialization

### ABSTRACTS

Abstracts for oral or poster presentations are to be submitted online at [www.4r-vision.com](http://www.4r-vision.com) and in English only.

Deadline for abstract submission is **31 July!**

## SOCIAL PROGRAMME

### WELCOME RECEPTION

We would like to invite you to join the welcome reception and to spend a nice evening with your colleagues in a relaxed atmosphere; refreshing beverages and finger-food will be served.

Date 30 November  
Time 18:20–20:00  
Venue foyer conference venue  
Fee free



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### SOCIAL DINNER

Parquet floors, stucco ceilings, double doors, white walls, a simple furnishing and lighting allow a variety of possible uses. Experience a wonderful evening with your conference colleagues and exhibitors!

Date 01 December  
Time 19:00–24:00  
Venue Luftraum Berlin  
Maienstraße 4 | 10787 Berlin  
Fee 60 EUR (incl. buffet, DJ and band)



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