Final program

VI. International Symposium on AMD
Age-Related Macular Degeneration – Emerging Concepts
Exploring known and Identifying new Pathways

September 11th - 12th, 2015
Baden-Baden, Germany

Deadline for early registration:
August 1st, 2015

www.AMD2015.org
Dear Colleague,

During recent years there have been major advances in understanding pathogenetic factors in multifactorial, complex AMD. The recent revolution in genetic, genomic and molecular biological studies has contributed significantly to our understanding of AMD.

However, many open questions are still to be addressed. We are approaching an era of new targets for therapy based on better differentiation and refined phenotyping of age-related macular disease. Four years after the last international Baden-Baden AMD meeting we will review emerging concepts to ask new questions and spur new thinking. The Classification of Atrophy Meeting (CAM-2), supported by the Dr. Werner Jackstädt-Foundation, will precede the AMD meeting.

We welcome you to beautiful Baden-Baden in the heart of the Blackwood Forest to the

VI. International Symposium on AMD: Age-related Macular Degeneration – Emerging Concepts - Exploring known and Identifying new Pathways - under the auspices of the DOG

and look very much forward to a stimulating and inspiring conference.

Daniel Pauleikhoff                    Frank G. Holz

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We thank the Dr. Werner Jackstädt-Foundation for the generous support of the Classification of Atrohy Meeting 2 - CAM-2.
www.jackstaedt-stiftung.de

We thank the following companies for their generous support of the VI. International Symposium on AMD: Age-related Macular Degeneration – Emerging Concepts - Exploring known and Identifying new Pathways - under the auspices of the DOG:

**Platin sponsors:**

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www.bayer.de  
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www.novartis.de  
Sponsoring: 25,000 €

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**Bronze sponsor:**

Bausch + Lomb  
www.bausch-lomb.de
General information

Date
Friday, September 11th, 2015  08.30 ➔ 18.30
Saturday, September 12th, 2015  08.30 ➔ 17.00

Venue
Kongresshaus Baden-Baden
Augustaplatz 10
D-76530 Baden-Baden
Germany
Internet: www.kongresshaus.de

Homepage
www.AMD2015.org

Scientific program
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Congress-Organisation Gerling GmbH
Werftstraße 23
D-40549 Düsseldorf, Germany
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Fax: +49 (0)2 11 / 59 35 60
E-Mail: info@congresse.de
Internet: www.congresse.de
Parking facilities
Parking garage at the Kongresshaus

Information Hotline
+49 (0)2 11 / 5 37 02 69

Opening hours congress office
Friday, September 11th, 2015  07.30 ➔ 18.30
Saturday, September 12th, 2015 08.00 ➔ 17.00

Official Language
English

Deadline for early registration
August 1st, 2015

Fees

<table>
<thead>
<tr>
<th>Booking</th>
<th>before August 1st, 2015</th>
<th>after August 1st, 2015</th>
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<tbody>
<tr>
<td>Regular</td>
<td>€ 320</td>
<td>€ 350</td>
</tr>
<tr>
<td>Resident*, Fellow*</td>
<td>€ 180</td>
<td>€ 210</td>
</tr>
<tr>
<td>Student*, unemployed person*</td>
<td>€ 140</td>
<td>€ 170</td>
</tr>
</tbody>
</table>

incl. VAT and excl. foreign transfer fees
* presentation of appropriate proof of status is required at the time of online-registration or may also be faxed to +49 (0)2 11 / 59 35 60; otherwise the regular fee will be charged.

Payment
by bank transfer (bank details are quoted on your confirmation) or by credit card: VISA, American Express, Mastercard, Paypal

Important notes for participants
Reduced participation fees only apply upon appropriate proof of status.

Registration fees include lunches (Friday & Saturday), coffee breaks and the abstract booklet.
If you register late or on site we cannot guarantee for lunch and/or participation in the social program.
You are encouraged to apply for the meeting either online, by mail or by fax. Cancellation for the symposium has to be made via e-mail or via fax (+49 (0)2 11 / 59 35 60) by September 6th, 2015 and is subject to an administration fee of € 20. No refunds can be granted for cancellations received after September 6th, 2015. Changes, errors and misprints excepted.
CME credits
The symposium will be certifi ed as further education according to the guidelines of the German Medical Association. We also applied to the European Accreditation Council for Continuing Medical Education (EACCME) to qualify the symposium for the provision of CME credits given to attending medical specialist. The EACCME is an institution of the European Union of Medical Specialists (UEMS). EACCME credits are recognized by the American Medical Association towards the Physician’s Recognition Award (PRA).

Hotels

Hotel Merkur*** (approx. 2 min. walking distance)
www.hotel-merkur.com
SR: € 120       DR: € 120
Reservation deadline: 13th July, 2015

Heliopark Bad Hotel zum Hirsch**** (approx. 10 min. walking distance)
www.heliopark-hirsch.de
SR: € 176       DR: € 176
Reservation deadline: 4th September, 2015

Radisson Blu Badischer Hof**** (approx. 13 min. walking distance)
www.hotel-badischerhof-badenbaden.de
SR: € 125       DR: € 174
Reservation deadline: 13th July, 2015

Atlantic Parkhotel**** (approx. 5 min. walking distance)
www.atlantic-parkhotel.de
SR: € 159       DR: € 279
Reservation deadline: 9th July, 2015

Brenners Park Hotel & Spa***** (approx. 5 min. walking distance)
www.brenners.com
SR: € 303       DR: on request only
Reservation deadline: 15th July, 2015

All of the room rates incl. breakfast buffet.

Presentations
L = Lectures: 12 min presentation + 2 min discussion
P = Papers: 6 min presentation + 2 min discussion
Poster: Pinboard (1.60 m height x 1.30 m width)

Projection
PowerPoint Presentation on USB-Stick, DVD or CD-R
Scientific Program

Friday, 11th September 2015

08.30 Opening remarks and welcome
Daniel Pauleikhoff
Frank G. Holz

08.35 1st Session
Genetic risk factors for AMD susceptibility

10.30 Chair: John G. Flannery (Berkeley)
Bernhard H.F. Weber (Regensburg)

01 P Johanna Colijn, G.H.S. Buitendijk, J.R. Vingerling, A. Hofman, C.C.W. Klaver (Rotterdam)
Changing prevalence of AMD in Europe

02 L Bernhard H. F. Weber (Regensburg)
AMD polymorphisms – risk vs. protection

The majority of familial AMD can be explained by clustering of common risk factors

The level of complement activation varies between the stages of AMD

05 P Michael Oeverhaus, M. Dietzel, V. Meyer zu Westrup, D. Pauleikhoff, H. W. Hense (Münster, Marburg)
Correlation between morphological and functional changes in patients with early AMD and the presence of risk polymorphisms in CFH- and ARMS2 genes

06 L John G. Flannery (Berkeley)
Engineering viral gene transfer vectors to treat retinal dystrophies

07 L Andrew Lotery (Southampton)
Gene therapy for macular degeneration

08 P Verena Meyer zu Westrup, M. Dietze, D. Pauleikhoff, H.-W. Hense (Münster, Giessen)
Prospective assessment of macular pigment over time – results from the Münster Ageing Retina Study
Fridbert Jonasson, D. Fisher, G. Eiriksdottir, S. Sigurdsson, R. Klein, L. Loner, T. Harris, V. Gudnason, M.-F. Cotch (Reykjavik, Bethesda, Kopavogur, Madison)

Elevated plasma HDL-cholesterol is associated with incident early AMD and progression to geographic atrophy and not to exudative AMD

Keynote Lecture

Alan C. Bird (London)

Disease mechanisms in age-related macular degeneration – Concepts and Challenges

10.30 Panel discussion

Implications of genetic risk factors – towards prevention and new therapies

Moderator:

Daniel Pauleikhoff (Münster)

Participants:

Alan C. Bird (London)
Emily Y. Chew (Bethesda)
John G. Flannery (Berkeley)
Carel B. Hoyng (Nijmegen)
Andrew Lotery (Southhampton)
Bernhard H. F. Weber (Regensburg)

10.50 Coffee break in the industrial exhibition area

Sponsored by Heidelberg Engineering

11.20 2nd Session

Inflammation, Complement and Inflammasome in AMD

Chair: Robert F. Mullins (Iowa City)
Imre Lengyel (London)

11 P


As the bright light dims: loss of lipofuscin-attributable autofluorescence from RPE in aging and AMD

12 P


APOE-isoform dependent effects on subretinal inflammation and cardinal features of AMD

13 L

Tim U. Krohne (Bonn)

Role of the inflammasome in AMD

14 L

Christine A. Curcio (Birmingham)

Deposits under the retina and complement activation
Olaf Strauß, C. Busch, A. Genewsky, C. Huber, C. Skerka, P. Zipfel, B. Rohrer (Berlin, Munich, Jena, Charleston)

**Complement signaling at the RPE**

Martin Busch, S. Wasmuth, G. Spital, A. Lommatzsch, D. Pauleikhoff (Münster)

**Activation of Erk1/2 signaling pathway by complement serum in UV-POS pretreated ARPE-19 cells**

Catharina Busch, S. Jacob, C. Huber, C. Skerka, P. F. Zipfel, A. M. Joussen, O. Strauß (Berlin, Jena)

**Effect of AMD patients’ sera on ARPE-19 cells in comparison to normal human serum**

Susanne Wasmuth, M. Busch, A. Lommatzsch, D. Pauleikhoff (Münster)

**Altered viability by complement on zinc-supplemented retinal pigment epithelial cells**

Diana Pauly (Regensburg)

**Different approaches for complement therapy in AMD**


**Zinc supplementation inhibits complement activation in AMD**

**Lunch**

Sponsored by Bayer HealthCare

### 3rd Session

**Auditorium**

14.15

**Inflammation, Complement and cellular immune system in AMD**

Chair: Andrew Dick (Bristol)

Philip J. Luthert (London)

**Keynote Lecture**

Jayakrishna Ambati (Lexington)

**Inflammatory pathways in AMD – what have we learned so far?**

Robert F. Mullins (Iowa City)

**MAC deposition in the choroid, BM and sub-RPE deposits**

Glen Jeffery (London)

**Composition of sub-RPE material**

Imre Lengyel (London)

**Drusen biogenesis - role of hydroxyapatite?**
25 L Philip J. Luthert (London)
Cellular immune system and AMD

26 L Andrew Dick (Bristol)
Parainflammation and macrophages modulation in AMD

15.45 Coffee break at the posters – Poster Session I (see page 21)
↓
16.45
Sponsored by

16.45 4th Session
↓
18.30 Auditorium
Defining the phenotypic variations in AMD
Chair: Glenn J. Jaffe (Durham)
SriniVas R. Sadda (Los Angeles)

27 P Peter Gouras (New York)
AMD in the monkey

28 L Carel B. Hoyng (Nijmegen)
Late-onset macular atrophy – how to differentiate disease entities

Comparison of geographic-atrophy progression in late-onset Stargardt disease and AMD

30 L Monika Fleckenstein (Bonn)
Foveal sparing in geographic atrophy

31 L SriniVas R. Sadda (Los Angeles)
OCT-angiographic findings widefield imaging in AMD

32 L Glenn J. Jaffe (Durham)
Implications of changes in the outer retina in exudative AMD

Multimodal imaging of the retinal pigment epithelium and Bruch’s membrane to uncover molecular predictors of AMD

34 SriniVas R. Sadda (Los Angeles)
Giovanni Staurenghi (Milan)
Frank G. Holz (Bonn)
Results of the International Classification of Atrophy consensus Meeting (CAM-1 and CAM-2)

18.30 End of the first day

20.00 Reception and Galadinner at “Brenner’s Park Hotel” followed by Clubbing
Scientific Program

Saturday, 12th September 2015

08.30 5th Session  Auditorium

Neurobiology of the outer retina and management I

Chair: John Marshall (London)
Thomas Langmann (Cologne)

10.10 Chair: John Marshall (London)

35 P
Ulrich Schraermeyer, S. Schmelze, S. Schultheiss, S. Julien, T. Oltrup, T. Bende, A. Tschulakow (Tübingen)
The anatomy of the foveola reinvestigated

36 P
Age-related Maculopathy Susceptibility Protein 2 (ARMS2) interacts with human properdin

37 L
John Marshall (London)
Correlation of Alzheimers and AMD

38 L
Sobha Sivaprasad (London)
Neuronal dysfunction in diabetic retinal disease; implications for AMD

39 L
Thomas Langmann (Cologne)
Microglia in AMD

40 L
Lois Smith (Boston)
Photoreceptor energetics and its relevance to AMD

41 L
Uwe Wolfrum (Mainz)
“Aging” of photoreceptor outer segments

Keynote Lecture

42 L
Dean Bok (Los Angeles)
What do we know about the cell biology of chromosome 1 and chromosome 10 mutations and their role in the etiology of AMD?

10.10 Coffee break at the posters – Poster Session II (see page 21)

Sponsored by optiVue
<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture</th>
<th>Speaker</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>10.50</td>
<td></td>
<td>6th Session</td>
<td><strong>Neurobiology of the outer retina and management II</strong></td>
</tr>
<tr>
<td>13.15</td>
<td></td>
<td>Chair: Christine Curcio (Birmingham)</td>
<td><strong>Adnan Tufail</strong> (London)</td>
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<tr>
<td>43 P</td>
<td></td>
<td>Yuhua Zhang, X. Wang, M. Clark, C. Owsley, C. A. Curcio (Birmingham)</td>
<td>The impact of subretinal drusenoid deposits (SDD) on surrounding photoreceptors revealed by multimodal imaging and mesopic and scotopic microperimetry</td>
</tr>
<tr>
<td>44 P</td>
<td></td>
<td>Peter Charbel Issa, M. Gliem, D. Hendig, R. P. Finger, F. G. Holz (Bonn)</td>
<td>Reticular pseudodrusen associated with Bruch’s membrane diseases: Sorsby’a fundus dystrophy and pseudoxanthopma elasticum</td>
</tr>
<tr>
<td>45 L</td>
<td></td>
<td>Wolf M. Harmening (Bonn)</td>
<td>Monitoring of photoreceptor survival by AO-SLO</td>
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<tr>
<td>46 L</td>
<td></td>
<td>Stephen Beatty (Waterford)</td>
<td>The role of supplemental macular carotenoids in healthy and diseased retinas</td>
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<tr>
<td>47 L</td>
<td></td>
<td>Janet Sparrow (New York)</td>
<td>Visual Cycle adducts and AMD</td>
</tr>
<tr>
<td>48 L</td>
<td></td>
<td>Emily Y. Chew (Bethesda)</td>
<td>Can we influence the risk for AMD – new results from AREDS 2</td>
</tr>
<tr>
<td>49 P</td>
<td></td>
<td>Julia S. Steinberg, M. Fleckenstein, R. Fimmers, F. G. Holz, S. Schmitz-Valckenberg (Bonn)</td>
<td>Correlation of outer nuclear layer thickness with scotopic and photopic fundus-controlled perimetry in patients with reticular drusen</td>
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<tr>
<td>50 P</td>
<td></td>
<td>Martin Zinkernagel, D. Jaggi, S. Wolf, L. Berger, A. Ebneter (Bern)</td>
<td>Inner nuclear layer thickening in patients with geographic atrophy</td>
</tr>
<tr>
<td>51 P</td>
<td></td>
<td>Steffen Schmitz-Valckenberg (Bonn)</td>
<td>Imaging biomarkers for geographic atrophy progression</td>
</tr>
<tr>
<td>53 L</td>
<td></td>
<td>Deborah Ferrington (Minneapolis)</td>
<td>Mitochondria as a therapeutic target for treating AMD</td>
</tr>
<tr>
<td>54 L</td>
<td></td>
<td>Martin Rudolf (Lübeck)</td>
<td>New therapeutic strategies for outer retinal aging changes</td>
</tr>
<tr>
<td>13.15</td>
<td></td>
<td>Lunch</td>
<td>Sponsored by [Novartis Pharmaceuticals]</td>
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<tr>
<td>14.20</td>
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</tbody>
</table>
14.20 7th Session
Neurobiology of the outer retina and management III
Chair: Richard F. Spaide (New York)
Sebastian Wolf (Bern)

16.30 Giovanni Staurenghi (Milan)
OCT-angiography and en-face SD-OCT imaging in AMD

Richard B. Rosen (New York)
OCT angiography – segmentation challenges in AMD

Marie-Louise Farecki, M. Ziegler, B. Heimes, M. Gutfleisch, G. Spital, A. Lommatzsch, D. Pauleikhoff (Münster)
Exudative AMD in OCT-angiography – correlation of classic and occult CNV in fluorescein angiography and OCT-angiography

Keynote Lecture
Richard F. Spaide (New York)
New concepts of Anti-VEGF-treatment in AMD by OCT angiography

Akio Oishi, A. Tsujikawa, N. Yoshimura (Kyoto)
The effect of aflibercept on polypoidal choroidal vasculopathy

Adnan Tufail (London)
Is a phenotypical differentiation important for the treatment of exudative AMD?

Sebastian Wolf (Bern)
Long-term changes in the outer retina and its relevance for monitoring and outcomes during anti-VEGF therapy

Freekje van Asten, L. Lorés-Motta, A.I. den Hollander, S. Fauser, C.B. Hoyng (Nijmegen, Cologne)
Pharmacogenetics in neovascular AMD: useful or useless?

Alexa Klettner, M. Dithmer, J. Roider (Kiel)
Fc-receptors in uptake and transport of bevacizumab and aflibercept in retinal pigment epithelial cells

A genetic variant in NRP1 is associated with worse response to ranibizumab treatment in neovascular AMD

Nadine Reichhart, S. Crespo-Garcia, N. Kociok, A.M. Joussen, O. Strauß (Berlin)
Role of PIGF in CNV
Panel discussion
Future of therapies in AMD

Moderator:
Frank G. Holz (Bonn)
Daniel Pauleikhoff (Münster)

Participants:
Emily Y. Chew (Bethesda)
Richard F. Spaide (New York)
Giovanni Staurenghi (Milan)
Sebastian Wolf (Bern)

Award ceremony:
Young Research Award
for the best three presentations (3 x 500 €)

Closing summary – Adjourn
Posters

Poster sessions (Coffee breaks at the posters)
Session I:  Friday, 11th September 2015, 15.45 → 16.45
Session II: Saturday, 12th September 2015, 10.10 → 10.50

Po1 Poster Elod Kortvely, M. Dierstein, F. Klose, S. Dammeier, K. Schenke-Layland, M. Ueffing (Tübingen, Stuttgart, Los Angeles)
Use of laser capture microdissection coupled mass spectrometry to analyze the choroidal proteome in healthy and AMD eyes

Po2 Poster Peter Heiduschka, L. Pohlmann, D. Niekämper, L. Lahme, N. Eter (Münster)
Can inhibition of interleukin-8 be a new therapy option in neovascular AMD?

Po3 Poster Ulrich Schraermeyer, T. Taubitz, L.-P. Steinbrenner, T. Peters, A. Biesemeier, M. Rittgarn, S. Schultheiss, A. Tschulakow, S. Julien (Tübingen)
Intravitreal injection of Fc-fragments induced infiltration of macrophages into the vitreous and retina.

Newly generated antibodies affect the functional role of CFHR3 in complement and AMD

Po5 Poster Saskia Jacob, C. Busch, A.-K.B. Maier, M. Rehak, O. Strauss, P.F. Zipfel, C. Skerka, A.M. Joussen (Berlin, Jena)
ARMS2- and CFH risk genotypes in AMD: a cohort study analysis of a new Charité database

Rare variants in complement genes associated with AMD cluster in multiplex families and result in a lower age at onset

Pre-analytical parameters affecting VEGF measurements from human plasma

Po8 Poster Matthias Gutfl echt, M.-L. Farecki, B. Heimes, G. Spital, A. Lommatzsch, D. Pauleikhoff (Münster)
Exudative AMD in OCT-angiography – correlation of fluorescein angiography and OCT-angiography of pigment epithelial tears of progressive pigment epithelial detachment

Po9 Poster Petra P. Fang, N. Eter, A. Wolf, P. Charbel Issa, F. G. Holz, T. U. Krohne (Bonn, Münster, München)
Ranibizumab in pigment epithelial tears secondary to AMD – a prospective, multicenter, investigator-initiated trial (RIP Study)
P10 Poster  Frank G. Holz on behalf of the LUMINOUS Steering Committee (Bonn)
Effectiveness of ranibizumab for the treatment of neovascular AMD:
Real world outcomes from the second interim analysis of the LUMINOUSN study

P11 Poster  Thomas Wecker, C. Ehlken, A. Bühler, C. Lange, D. Böhringer, H. Agostini, 
A. Stahl (Freiburg)
Effects of demographic variables on long-term anti-VEGF treatment patterns

P12 Poster  Stanislav Saksonov, S. Suk, A. Teslenko (Kiev)
Anti-VEGF resistant form of ARMD. Micropulse laser treatment of serous RPE detachment

P13 Poster  Cosme Ildefonso Naval, K. Corpus (Manila)
Intravitreal Injection of autologous serum for different retinal conditions

P14 Poster  Britta Heimes, H. Albrecht, C. Weigand, G. Spital, A. Lommatzsch, 
D. Pauleikhoff (Münster)
Influence of a telemedicine network on patient satisfaction and compliance with recommended dates in patients with exudative AMD

P15 Poster  Robert Wilke, H.G. Sachs (Dresden)
Real life data from Saxony: Adherence to treatment and ease of access to anti-VEGF medication determine long term functional outcome in AMD

P16 Poster  Carsten H. Meyer (Aarau)
Novel bifocal macular lens may restore reading vision in eyes with maculopathies

P17 Poster  Thomas Theelen, M.M. Teussink, M.B. Breukink, C.B. Hoyng (Nijmegen)
OCT angiography compared to fluorescein and ICG angiography in chronic central serous chorioretinopathy

P18 Poster  Tatiana Semikova (Moscow)
Alternative method for AMD treatment

P19 Poster  Tatiana Semikova, S.V. Semikov (Moscow)
Result of AMD treatment using antihomotoxic medications in patient with macular tear after multiple vitreoretinal surgery Clinical case report

P20 Poster  Martin Gliem, P.L. Müller, F.G. Holz, P. Charbel Issa (Bonn)
Quantitative fundus autofluorescence suggests normal or low lipofuscin levels in retinal disease with drusen associated with AMD

P21 Poster  Stanley Lambertus, M. Lindner, N.M. Bax, M. Mauschitz, M. Schmid, M. 
Fleckenstein, S. Schmitz-Valckenberg, G.J. van der Wilt, F.G. Holz, C.B. Hoyng (Nijmegen, Bonn)
Progression of late-onset Stargardt disease
Social events

Friday, September 11th 2015
at 20.00 h

For all participants:
Social event and gala dinner
Orangerie at Brenner’s Parkhotel
Schillerstraße 4-6, Baden-Baden

Jazz Trio „Kaffeepause“

followed by Clubbing

Price per person (incl. dinner and drinks):
Regular € 60
Resident/Fellow/Student € 40

Saturday, September 12th 2015
9.30 - 12.00 h

For accompanying persons:
Guided tour Festspielhaus Baden-Baden
and city stroll
A visit to the biggest German opera
and concert building comprising 2,500 seats.

Meeting point:
During a subsequent guided walk of the city
you will learn some Congress office
interesting facts about Baden-Baden’s Russian history,
its Russian church and the houses of Turgenev
and Dostojevsky as well as much more of Baden-Baden’s
2,000 year-old past and its spa, baths and old town district.

Price per person € 10

Recommendation

Museum Frieder Burda
The summer exhibition will focus
on the reliefs in the oeuvre of Heinz Mack (*1931),
cofounder of the group ZERO.
www.museum-frieder-burda.de
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by plane:
commuting from airport
Frankfurt/M → 1 1/2 hours
Stuttgart → 1 hour
Basel → 1 1/4 hours

by train:
Main rail line Frankfurt - Basel
Station Baden-Baden

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Karlsruhe → Freiburg →
Baden-Baden
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Continue on B 500 in the direction of the city (Zentrum) into tunnel (Michaelstunnel). Turn left at 1st exit: Congress / Rebland / SWR. Drive straight ahead until you reach the Augusta-car park on the left side in front of the congress centre Baden-Baden.
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