

Annual meeting  
**DFG** Priority Programme

# Functional Specialisation of Neuroglia as Critical Determinants of Brain Activity

Homburg | Oct 8 - 10, 2015





Venue: **Center for Integrative Physiology and Molecular Medicine**  
**CIPMM**

**Auditorium**

University of Saarland | Medical School  
Building 48 | 66421 Homburg

## Scientific Program

Thursday, October 8, 2015

13:00 – 14:00	Registration and Lunch (Foyer)
14:00 – 14:15	<b>Christine Rose/Frank Kirchhoff</b> Opening Remarks
14:15 – 15:00	<b>Kenji Tanaka</b> <i>Dept. Neuropsychiatry, School of Medicine, Keio University, Tokyo</i> Tetracycline-controllable gene expression system in glial cell research
15:00 – 15:30	<b>Johannes Hirrlinger</b> <i>Carl-Ludwig-Institute for Physiology, University of Leipzig Max Planck Institute for Experimental Medicine, Göttingen</i> Brain energy metabolism assessed by genetically encoded sensors for metabolites
15:30 – 15:45	<b>Coffee break</b>
15:45 – 16:15	<b>Leda Dimou</b> <i>Physiological Genomics, Ludwig Maximilian University, Munich</i> The heterogenous nature of NG2-glia: new approaches to study them in the adult brain
16:15 – 18:00	<b>Poster session I</b>
18:00 – 21:00	<b>Dinner and open discussions in CIPMM (2nd floor)</b>

Friday, October 9, 2015

9:00 – 9:45	<b>Dmitri Rusakov</b> <i>UCL Institute of Neurology, University College London</i> Astroglial microenvironment of synapses and memory trace formation
9:45 – 10:10	Young Investigator presentation <b>Michel Herde</b> <i>Universität Bonn, Germany</i> Visualizing subcellular astrocyte heterogeneity with Expansion Microscopy
10:10 – 10:30	<b>Coffee break and group picture</b>
10:30 – 11:15	<b>Sue Barnett</b> <i>Institute of Infection, Immunity and Inflammation, University of Glasgow</i> Is sulfatase a novel target for astrocyte-Schwann cell interactions?
11:15 – 11:45	<b>Moritz J. Rossner</b> <i>Department of Psychiatry, Ludwig Maximilian University Munich</i> Transcriptomic protocols to study glial function in vitro and in vivo
11:45 – 12:00	<b>High throughput data and genetic tool exchange within the SPP 1757</b>

Friday, October 9, 2015

12:00 – 13:30	<b>Lunch (2nd floor)</b>
13:30 – 14:45	<b>Arthur Butt</b> <i>Cellular Neurophysiology, School of Pharmacy and Biomedical Sciences, University of Portsmouth</i> Glia and neurotransmission in white matter: where are the synapses?
14:45 – 15:45	<b>Blitz presentations of Work-in-Progress</b> Blitz presentations are intended to show exciting new findings on 2 to 3 slides and discuss them within the SPP 1757 network
15:45 – 16:00	<b>Coffee Break</b>
16:00 – 17:30	Poster session II and discussions of interest groups
17:30 – 21:00	<b>Walking tour to Schlossberg-Hotel and dinner</b>

Saturday, October 10, 2015

9:00 – 9:45	<p><b>Alfonso Araque</b>  <i>Department of Neuroscience, University of Minnesota, Minneapolis, USA</i>            Circuit-specific synaptic regulation by astrocytes</p>
9:45 – 10:15	<p><b>Dieter Bruns/Yvonne Schwarz</b>  <i>Molecular Neurophysiology, University of Saarland</i>            v-SNARE proteins in astrocytic function and heterogeneity</p>
10:15 – 10:45	<p><b>Christian Lohr</b>  <i>Division of Animal Physiology, Biocenter Grindel, University of Hamburg</i>            Propagation of large-scale calcium waves in olfactory ensheathing glial cells</p>
10:45 – 11:00	<p><b>Coffee Break</b></p>
11:00 – 11:30	<p><b>Benjamin Altenhein</b>  <i>Zoological Institute, University of Cologne</i>            Glial cell heterogeneity in Drosophila</p>
11:30 – 12:00	<p><b>Christian Klämbt</b>  <i>Institut für Neuro und Verhaltensbiologie, Westfälische Wilhelms-Universität Münster</i>            Drosophila as a model to study glial biology</p>
12:00 – 12:15	<p><b>Concluding remarks</b></p>
12:15 – 14:00	<p><b>Lunch (2nd floor) and departure</b></p>

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#### Poster

- 1 Janusz **Jadasz**, Felix Beyer and Patrick **Küry**: Nature and functionality of adult neural stem cell derived oligodendroglial cells
- 2 Markus **May** and Andreas **Faissner**: Influence of the glycoprotein tenascin-C on the cell cycle of spinal cord progenitors
- 3 Jasmine **Pahle**, Jo Kristin Welzel, Michael Frotscher and Bianka **Brunne**: Reelin and radial glia-like cells in the dentate gyrus
- 4 Thomas **Pannicke**, A. Karl, H. Kuhrt, M. Reisenhofer, T. I. Chao, Mike **Francke** and Andreas **Reichenbach**: Comparative studies of vertebrate retinal Müller glial cells and their contribution to retinal axon envelopment
- 5 Stefanie **Ohlig** and Magdalena **Götz**: Region-specific differences in astrocyte plasticity in the mouse forebrain
- 6 Ina **Schäfer**, Ewa Bres and Andreas **Faissner**: Role of LRP1 in radial glia and NG2 glia development
- 7 Nicole **Unger** and Leda **Dimou**: The heterogenous nature of NG2-glia
- 8 Julio **Vera-Gonzalez** and Michael **Wegner**: Molecular Determinants of the Differential Properties of Embryonic Oligodendrocyte Precursors and Adult NG2 Cells: a Network Biology Perspective
- 9 Chris **Bolychevsky**, Wenjing Sun and Dirk **Dietrich**: Clustering of AMPA receptors along NG2 glial cell dendrites
- 10 Carsten Frühbeis, Dominik Fröhlich, Wen Ping Kuo-Elsner, Janina **Kuschmann**, Eva-Maria **Krämer-Albers**: Glia to Neuron Exosome Transfer
- 11 Wenjing **Sun** and Dirk **Dietrich**: Role of A-type K<sup>+</sup> currents in synaptic integration and calcium signaling in NG2 glial cells
- 12 A. **Timmermann**, S. Passlick, J. Trotter, R. Jabs, F. Kirchhoff, G. Seifert and Christian **Steinhäuser**: Impact of the diverse AMPA and GABA<sub>A</sub> receptors in grey matter NG cells
- 13 Hatice **Yigit**, Sandra Schick, Abhijeet Pataskar, Jens Hartwig, Vijay Tiwari and Jacqueline **Trotter**: Revealing the locally translated mRNA repertoire at synapses between neurons and NG2-expressing glial cells
- 14 Carmen V. **Bohn**, Hannah M. Jahn, Xianshu Bai, Anja Scheller and Frank **Kirchhoff**: Analysis of purinergic P2Y1 receptors in cortical astrocytes and cerebellar Bergmann glia
- 15 Claudia **Karus** and Christine R. **Rose**: Developmental heterogeneity of sodium signalling in astrocytes: Sodium dynamics in neonatal and juvenile mouse hippocampus

- 16 Andrea **Mölders** and Nikolaj **Klöcker**: Heterogeneity of astrocytic AMPA Receptors
- 17 Camille **Philippot**, S. Griemsmann, L. Claus, R. Jabs, H. Kettenmann and Christian **Steinhäuser**: How do glial cells impact neuronal signaling in the thalamus?
- 18 Laura **Schlosser**, Xianshu Bai, Hannah M. Jahn, Ann-Kathrin Thies, Anja Scheller and Frank **Kirchhoff**: Analysis of astrocyte-specific and inducible GABA<sub>β</sub> receptor deletion in the mouse brain
- 19 Yvonne **Schwarz** and Dieter **Bruns**: v-SNARE proteins in astrocytic function and heterogeneity
- 20 S.M. **Theparambil**, S. Defren and J.W. **Deitmer**: Proton Dynamics in cortical astrocytes: Bicarbonate transport, CO<sub>2</sub> diffusion, and carbonic anhydrases
- 21 Daniel **Minge** and Christian **Henneberger**: Morphological heterogeneity of hippocampal astrocytes
- 22 Nils **Otto**, Kerem Yildirim, Silke Thomas, Dimitri Berh, Benjamin Risse and Christian **Klämbt**: Modulation of larval neural locomotion-behavior by glial cells
- 23 Mika **Simons**: Molecular mechanisms and functional implications of heterogeneity in myelin structure
- 24 Andrea **Trevisiol**, Aiman Saab, Johannes Hirrlinger and Klaus-Armin **Nave**: Studying axon-glia metabolic interaction with a novel ATP-reporter mouse line
- 25 Sandra **Goebbels**: The effects of aging on wild type and CNP1 mutant myelin
- 26 Gesine **Saher**: Analysis of glial metabolism in response to ketogenic diet

## W-LAN/WiFi



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If you do not use eduroam, please contact us (organisation team) and we will provide user-id and password for W-LAN access (SSID: hiz-saarland.de).

## Directions to Homburg

link: <http://www.openstreetmap.de>, search: CIPMM Homburg



## By car:

GPS-Navigation: Uniklinikum, 66424 Homburg

*From Mannheim or Saarbrücken:*

Highway (Autobahn) A6 , take exit 'Homburg/Saar', follow the sign to 'Homburg', then follow the signs to 'Kliniken/Universitätskliniken'.

*From Luxembourg, Trier or Koblenz:*

Highway (Autobahn) A8 until Neunkirchen/Saar, follow directions to highway (Autobahn) A6 to Mannheim, take the exit 'Homburg/Saar' and follow signs to 'Kliniken / Universitätskliniken'.

*Free parking possibilities exist:*

in the 'Parkhaus' at the main entrance of the University Hospital. Within the area of the Hospital you can use a shuttle bus (Mo-Th 7.00 - 17.00; Fr 7.00 - 16.00; every 15 min.), or near the new building (use East Entrance of Hospital area; see map)

**By train (Deutsche Bahn):**

*National connections:*

Frankfurt - Mannheim - Homburg

*International connections:*

Paris - Saarbrücken - Homburg

Luxembourg - Saarbrücken - Homburg

Strasbourg - Saarbrücken - Homburg

## Campus map

[including CIPMM (building 48) and bus stations 511 and 512]



CIPMM: Building 48

Bus stop 511: Uni-Parkhaus

Bus stop 512: Uniklinik-Mitte

(see also Bus time tables)

## Bus lines

To reach the CIPMM building you can use two bus lines: 511 and 512. Please find underneath the time tables with the appropriate stations for the CIPMM. For further information check out the campus map.

### 511 Homburg Hbf - Universität/Klinikum - Kirrberg

Haltestelle	Bussteig	Montag - Freitag						Samstag		
		513 aus Bruchhof						513 aus Bruchhof		
Bus kommt von Linie		-	-	-	-	-	-			
Homburg Hbf ab	G	5:30	6:00	6:30	19:30	20:00	21:00	6:30	21:30	
Rondell		5:32	6:02	6:32	19:32	20:02	21:02	6:32	21:32	
Scheffelplatz		5:33	6:03	6:33	19:33	20:03	21:03	6:33	21:33	
Talstraße	A	5:35	6:05	6:35	19:35	20:05	21:05	6:35	21:35	
Zweibrücker Tor		5:36	6:06	6:36	19:36	20:06	21:06	6:36	21:36	
Amtsgericht		5:37	6:07	6:37	alle 30 Min.	19:37	20:07	21:07	6:37	alle 60 Min.
Untere Allee		5:37	6:07	6:37	alle 30 Min.	19:37	20:07	21:07	6:37	alle 60 Min.
Studentenwohnheim		5:38	6:08	6:38	alle 30 Min.	19:38	20:08	21:08	6:38	alle 60 Min.
Emilienstraße		5:39	6:09	6:39	alle 30 Min.	19:39	20:09	21:09	6:39	alle 60 Min.
Uni-Parkhaus		5:40	6:10	6:40	alle 30 Min.	19:40	20:10	21:10	6:40	alle 60 Min.
Mühlstraße		5:44	6:14	6:44	alle 30 Min.	19:44	20:14	21:14	6:44	alle 60 Min.
Kirchbergstraße		5:45	6:15	6:45	alle 30 Min.	19:45	20:15	21:15	6:45	alle 60 Min.
Kirrberg Markt		5:45	6:15	6:45	alle 30 Min.	19:45	20:15	21:15	6:45	alle 60 Min.
Am Roßberg		5:46	6:16	6:46	alle 30 Min.	19:46	20:16	21:16	6:46	alle 60 Min.
Am Lerchenhübel		5:47	6:17	6:47	alle 30 Min.	19:47	20:17	21:17	6:47	alle 60 Min.
Am Alten Schloss		5:48	6:18	6:48	alle 30 Min.	19:48	20:18	21:18	6:48	alle 60 Min.
Lambsbachbrücke		5:49	6:19	6:49	alle 30 Min.	19:49	20:19	21:19	6:49	alle 60 Min.
Am Collinger Berg		5:50	6:20	6:50	alle 30 Min.	19:50	20:20	21:20	6:50	alle 60 Min.

### 511 Kirrberg - Universität/Klinikum - Homburg Hbf

Haltestelle	Bussteig	Montag - Freitag						Samstag		
		514 nach Erbach						514 nach Erbach		
Bus fährt weiter als Linie		-	-	-	-	-	-			
Am Roßberg		5:16	5:46	19:46	20:16	21:16	5:16	6:46	20:46	21:46
Am Lerchenhübel		5:17	5:47	19:47	20:17	21:17	5:17	6:47	20:47	21:47
Am Alten Schloss		5:18	5:48	19:48	20:18	21:18	5:18	6:48	20:48	21:48
Lambsbachbrücke		5:19	5:49	19:49	20:19	21:19	5:19	6:49	20:49	21:49
Am Collinger Berg		5:20	5:50	19:50	20:20	21:20	5:20	6:50	20:50	21:50
Kirrberg Markt		5:21	5:51	19:51	20:21	21:21	5:21	6:51	20:51	21:51
Kirchbergstraße		5:22	5:52	19:52	20:22	21:22	5:22	6:52	20:52	21:52
Mühlstraße		5:23	5:53	19:53	20:23	21:23	5:23	6:53	20:53	21:53
Uni-Augenklinik							22:22			22:22
Uni-Versorgungszentrum							22:23			22:23
Uni-Kinderchirurg/ZahnkL							22:23			22:23
Uni-Chirurg./KinderkL				alle 30 Min.			22:24		alle 60 Min.	22:24
Uni-Haupteingang				alle 30 Min.			22:25		alle 60 Min.	22:25
Uni-Parkhaus		5:28	5:58	19:58	20:28	21:28	5:28	6:58	20:58	21:58
Emilienstraße		5:30	6:00	20:00	20:30	21:30	5:30	7:00	21:00	22:00
Studentenwohnheim		5:31	6:01	20:01	20:31	21:31	5:31	7:01	21:01	22:01
Untere Allee		5:32	6:02	20:02	20:32	21:32	5:32	7:02	21:02	22:02
Amtsgericht		5:33	6:03	20:03	20:33	21:33	5:33	7:03	21:03	22:03
Zweibrücker Tor		5:34	6:04	20:04	20:34	21:34	5:34	7:04	21:04	22:04
Talstraße		5:35	6:05	20:05	20:35	21:35	5:35	7:05	21:05	22:05
Christian-Weber-Platz	B	5:36	6:06	20:06	20:36	21:36	5:36	7:06	21:06	22:06
Enklerplatz		5:37	6:07	20:07	20:37	21:37	5:37	7:07	21:07	22:07
Mühlgraben		5:38	6:08	20:08	20:38	21:38	5:38	7:08	21:08	22:08
Homburg Hbf an	F	5:39	6:09	20:09	20:39	21:39	5:39	7:09	21:09	22:09

## 512 Homburg Hbf – Universität / Klinikum – Birkenriedlung

Haltestelle	Bussteig	Montag – Freitag						Samstag		
		514 aus Erbach						514 aus Erbach		
Bus kommt von Linie										
<b>Homburg Hbf ab</b>	G	5:37	6:07	6:37	20:07	21:07	22:07	5:37	21:37	
Rondell		5:39	6:09	6:39	20:09	21:09	22:09	5:39	21:39	
Scheffelplatz		5:40	6:10	6:40	20:10	21:10	22:10	5:40	21:40	
<b>Talstraße</b>	A	5:42	6:12	6:42	20:12	21:12	22:12	5:42	21:42	
Zweibrücker Tor		5:43	6:13	6:43	20:13	21:13	22:13	5:43	21:43	
Amtsgericht		5:44	6:14	6:44	alle	20:14	21:14	22:14	5:44	alle
Untere Allee		5:44	6:14	6:44	30	20:14	21:14	22:14	5:44	60
<b>Saarpfalz-Gymnasium</b>		5:45	6:15	6:45	Min.	20:15	21:15	22:15	5:45	Min.
Robert-Koch-Straße		5:46	6:16	6:46	20:16	21:16	22:16	5:46	21:46	
Seniorenwohnheim		5:47	6:17	6:47	20:17	21:17	22:17	5:47	21:47	
<b>Uni-Haupteingang</b>		5:48	6:18	6:48	20:18	21:18	22:18	5:48	21:48	
<b>Uni-Klinikum Mitte</b>		5:49	6:19	6:49	20:19	21:19	22:19	5:49	21:49	
Uni-Augenklinik		5:49	6:19	6:49	20:19	21:19	22:19	5:49	21:49	
Warburgring		5:50	6:20	6:50	20:20	21:20	22:20	5:50	21:50	
Cappelallee		5:50	6:20	6:50	20:20	21:20	22:20	5:50	21:50	
Eibenweg		5:51	6:21	6:51	20:21	21:21	22:21	5:51	21:51	
<b>Buchenweg</b>		5:52	6:22	6:52	20:22	21:22	22:22	5:52	21:52	

## 512 Birkenriedlung – Universität / Klinikum – Homburg Hbf

Haltestelle	Bussteig	Montag – Freitag						Samstag			
		<b>Buchenweg</b>		5:56	6:31	7:01	19:31	20:31	21:31	5:56	7:01
Fichtenweg		5:57	6:32	7:02	19:32	20:32	21:32	5:57	7:02	21:02	
Birkenriedlung		5:58	6:33	7:03	19:33	20:33	21:33	5:58	7:03	21:03	
Cappelallee		6:00	6:35	7:05	19:35	20:35	21:35	6:00	7:05	21:05	
Warburgring		6:01	6:36	7:06	19:36	20:36	21:36	6:01	7:06	21:06	
Uni-Augenklinik		6:02	6:37	7:07	19:37	20:37	21:37	6:02	7:07	21:07	
<b>Uni-Klinikum Mitte</b>		6:03	6:38	7:08	alle	19:38	20:38	21:38	6:03	7:08	alle
Uni-Haupteingang		6:04	6:39	7:09	30	19:39	20:39	21:39	6:04	7:09	60
Seniorenwohnheim		6:05	6:40	7:10	Min.	19:40	20:40	21:40	6:05	7:10	Min.
Robert-Koch-Straße		6:06	6:41	7:11	19:41	20:41	21:41	6:06	7:11	21:11	
<b>Saarpfalz-Gymnasium</b>		6:07	6:42	7:12	19:42	20:42	21:42	6:07	7:12	21:12	
Obere Allee		6:08	6:43	7:13	19:43	20:43	21:43	6:08	7:13	21:13	
Amtsgericht		6:09	6:44	7:14	19:44	20:44	21:44	6:09	7:14	21:14	
Zweibrücker Tor		6:10	6:45	7:15	19:45	20:45	21:45	6:10	7:15	21:15	
<b>Talstraße</b>	B	6:11	6:46	7:16	19:46	20:46	21:46	6:11	7:16	21:16	
Christian-Weber-Platz		6:12	6:47	7:17	19:47	20:47	21:47	6:12	7:17	21:17	
Enklerplatz		6:13	6:48	7:18	19:48	20:48	21:48	6:13	7:18	21:18	
Mühlgraben		6:14	6:49	7:19	19:49	20:49	21:49	6:14	7:19	21:19	
<b>Homburg Hbf an</b>	F	6:16	6:51	7:21	19:51	20:51	21:51	6:16	7:21	21:21	

### TAXI

Taxi-Fritz +49 6841 12224

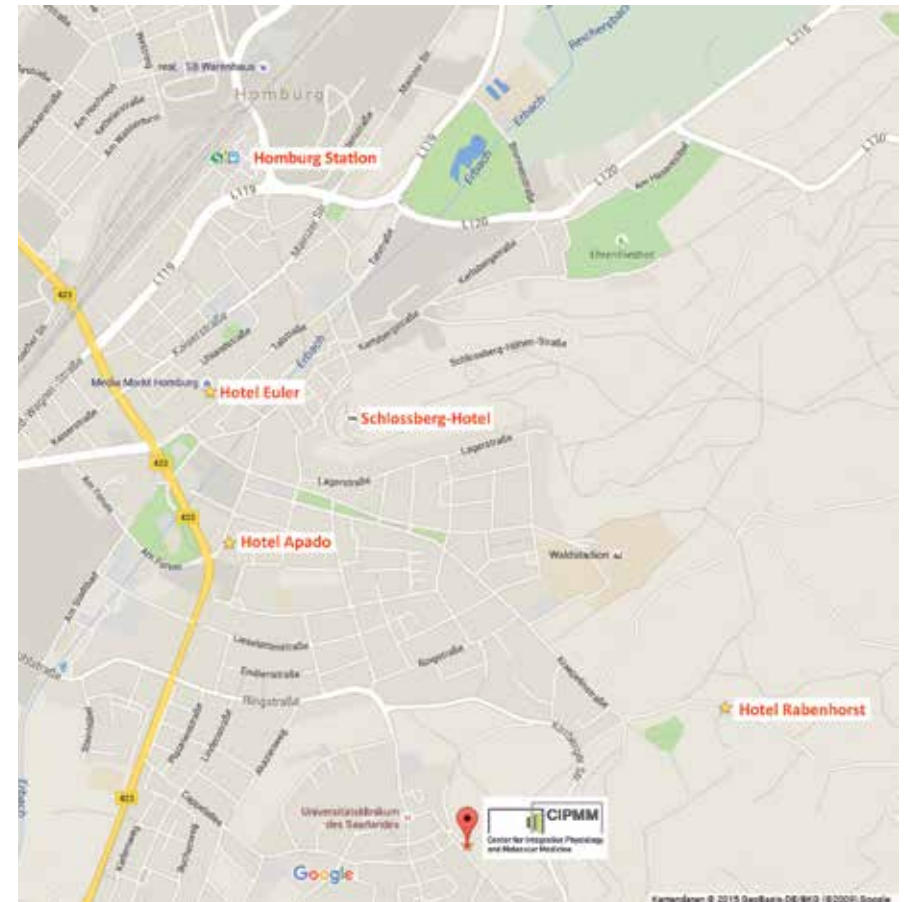
Taxi Wagner +49 6841 2000

Homburger Funktaxi 0800 589 4444, +49 6841 189292

Taxi ride from city to CIPMM takes less than 10 min, 8 to 9 EUR.

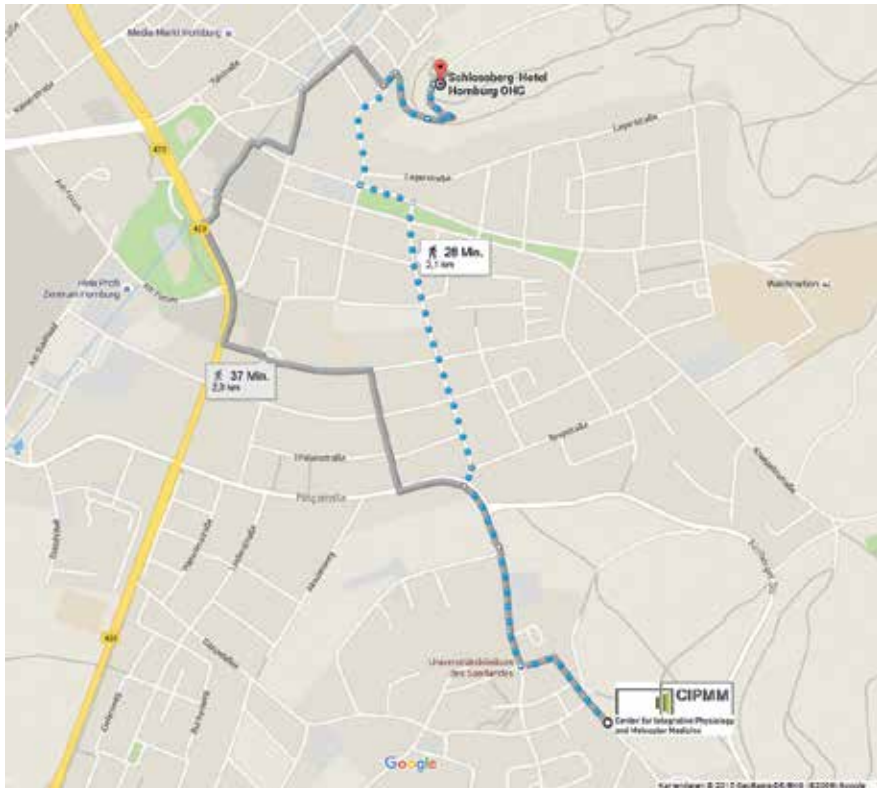
### Homburg

Overview: CIPMM | Station | Hotels | Schlossberg-Hotel



Friday, October 9, 2015

### Walking tour to Schlossberg-Hotel and dinner

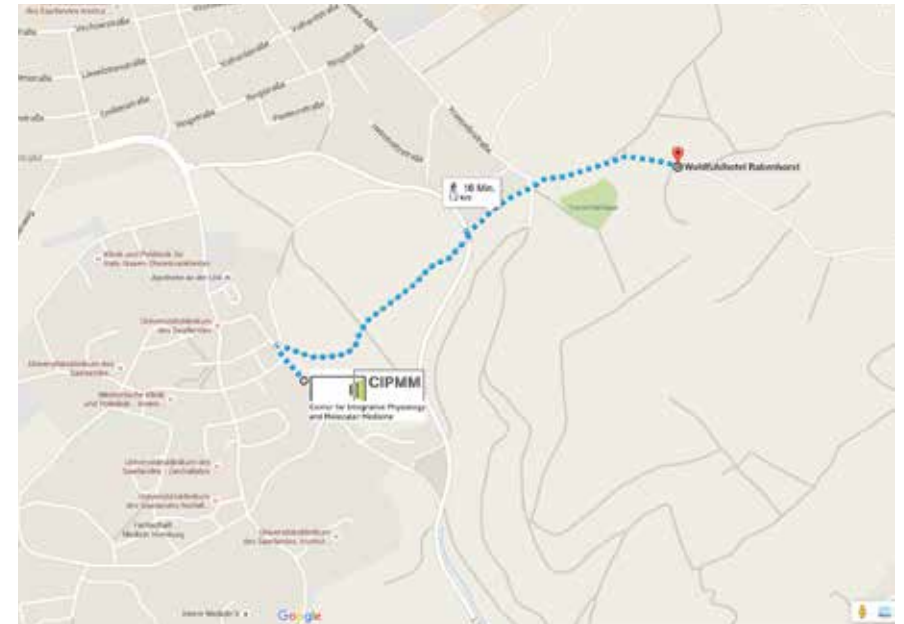


### Hotels in Homburg

#### Hotel Rabenhorst

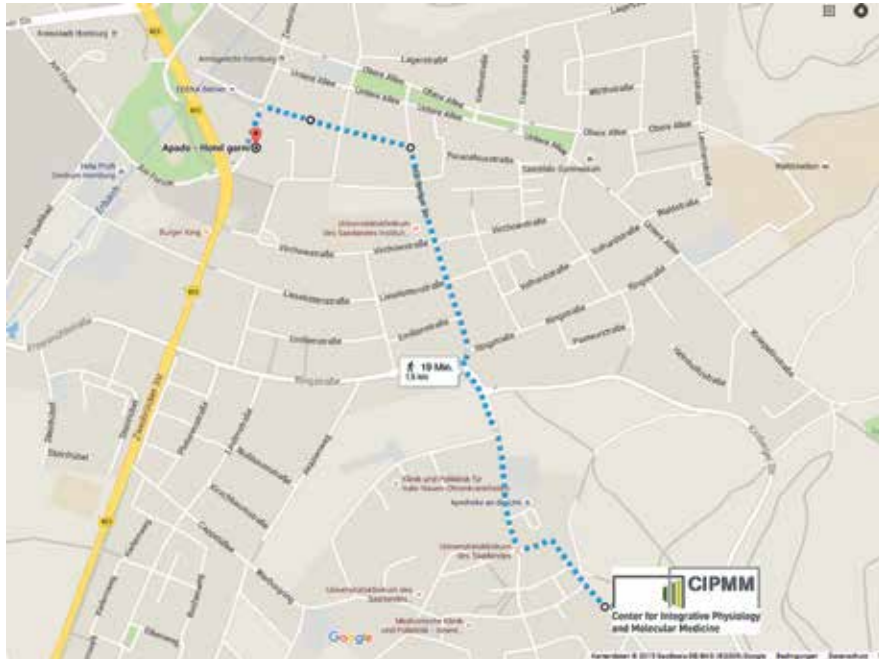
Kraepelinstraße 1, 66424 Homburg

[www.hotel-rabenhorst.de](http://www.hotel-rabenhorst.de)



### Hotel Apado

Zweibrücker Str. 44-48, 66424 Homburg  
[www.hotel-apado.de](http://www.hotel-apado.de)



### Hotel Euler

Talstr. 40, 66424 Homburg  
[www.hoteleuler.de](http://www.hoteleuler.de)







