



**UNIVERSITÄTS
KLINIKUM** FREIBURG

INTERNATIONAL WORKSHOP

MR – yesterday, today, and tomorrow



PROGRAM

July 1-2, 2022

Freiburg, Germany

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Dear friends and colleagues,

I am utterly pleased to welcome you in Freiburg. The workshop ‘MR – yesterday, today, and tomorrow’ was originally planned for 2020, postponed because of Covid to 2021, and now –on the 3rd try – it finally takes place. Things are by far not back to normal, we are quite lucky in central Europe that circumstances allow a halfway normal life, but this is certainly not true everywhere. Especially friends from Asia – in particular China and Taiwan – can still not travel freely and the outrageous war in Ukraine has led to further restrictions.

With the overall quite positive experience of online meetings over the last 2 years and the increasing awareness about our carbon footprint you may ask, why we do need another workshop in person. Well the answer to this for me is very simple and personal: At the original time of planning this was supposed to take place around the time of my retirement and rather than just turn off the light and close the door I wanted to create an opportunity to get together with friends and colleagues, many of whom have accompanied me over many years and have become my scientific family – way beyond the mere scientific exchange.

Concerning the topic of the workshop it is noted that there are already multiple topical workshops. ISMRM alone lists 12 workshops for 2022 plus 10 endorsed events (including this one) for the rest of the year. So I felt I shouldn't make just another topical workshop. At the same time, I have developed over the recent years the strong feeling that – with all the multitude of meetings – something is missing. Topical workshops as well as the Annual Meetings of ISMRM and ESMRMB present a snapshot of the current state-of-the-art – the here and now of the development. In the past one could get a reasonable overview of the field at large at the Annual meeting of ISMRM, but with the currently 40+(!) parallel sessions and events, it is hopeless to even get all information about one's speciality topic let alone get a grasp about what is happening in the field outside one's speciality area. Of course, one can keep track of one's area through topical workshops and through reading the pertinent literature, but the information about what's going on elsewhere is lost.

So I thought it could be worthwhile to have a smaller workshop – which also allows personal interaction between speakers and the audience –

not focused on the here and now, but to present a selection of topics related to some relevant and/or interesting development, so to add a temporal dimension to the usual instantaneous presentations. Here is how I put it into the invitation letters to the speakers:

‘The format of the workshop will be slightly different from typical topical workshops. Rather than focusing on some specific topic to present the respective state-of-the-art and new results and ideas, which typically covers the development over a very narrow time horizon of +- 1 year the idea would be to have a workshop that is topically open but aimed at covering a longer period to give a bigger picture of the field and how it evolves. The presentations I have in mind can come in different flavors, they may cover some topic, which was hot at some time, went out of fashion and becomes hot again (quantitative imaging would be an obvious example), or show the development of some of your favorite topics over the years.

I want to cover not only scientific content but also take a look behind the science, so speakers may not only talk about their pet projects, but also e.g. give an account of how they pursued their scientific career, how and why they got started in MRI? How did they continue? What decisions about topics/ career options did they take and why? What worked for them and what not? And most important: what do they anticipate to be the future – both in terms of the science but also concerning scientific careers. I don't expect that all presentations cover all the possibilities, some may stick more to the science, other more about the mechanics of science and still others may be more personal. ‘

I am very curious myself, about how this will work out. I am very happy, that every speaker has immediately agreed to the invitation. Still, of course, the tight format allows only a limited number of presenters and I could easily imagine coming up with more than one additional workshop along with this concept.

I wish you an interesting time, enjoy the meeting and don't forget to enjoy Freiburg – if you find the time.

Jürgen Hennig

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General Conference Information

Venue

Aula Kollegengebäude I (KG I – Number 1 on the map)
Platz der Universität 3
79098 Freiburg



Wireless LAN

As an employee of Freiburg University Hospital and guests of the eduroam network, you have the possibility to use the offered WLAN with the network name eduroam.

Tram

The nearest tram stops (Stadttheater and Erbprinzenstraße) are only a few minutes walk away. At the Stadttheater stop you can reach the tram lines 1, 2, 3 and 4, which all go in the direction of the main train station and Bertoldsbrunnen. At the Erbprinzenstraße stop you will reach tram line 5, which goes in the direction of Rieselfeld and Europaplatz.

In the tram and at some stops you will find a ticket vending machine where you can buy your ticket. Please note that payment is only possible with coins, banknotes (up to 50€), your bank card (girocard with PIN) and your credit card (MasterCard, VISA incl. Maestro and VPay).

For more information and timetables, please visit the VAG Freiburg website:



With the app FAIRTIQ you can easily book electronic tickets in the Regio-Verkehrsbund Freiburg.

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Taxi

If you need a cab, you are welcome to call DAS TAXY at +49 761 6800 2630

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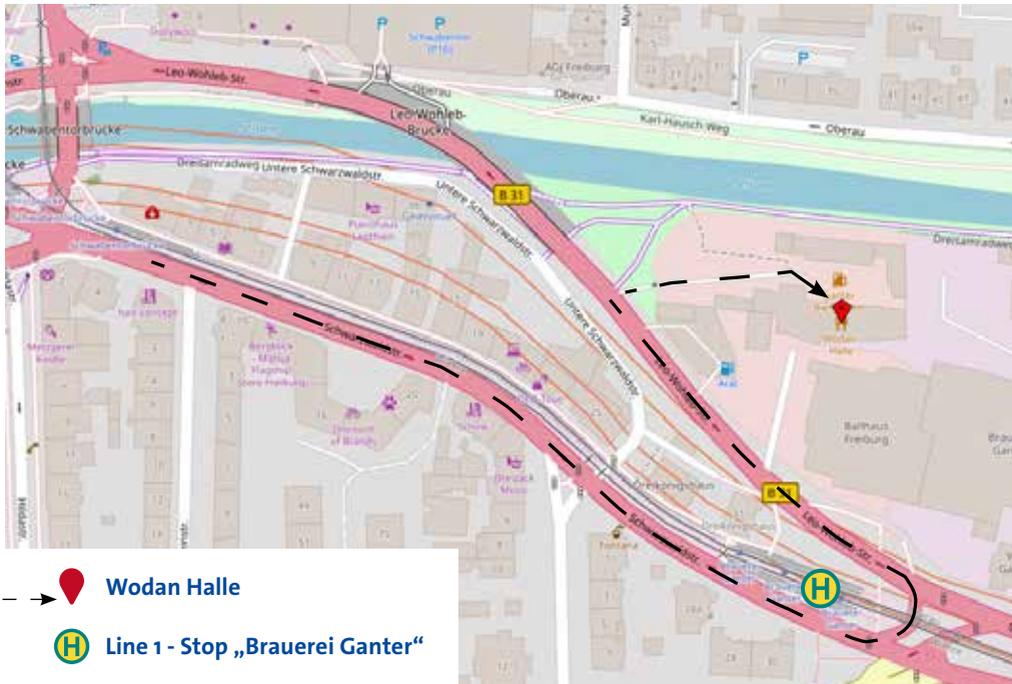
Social event

Friday, 1st of July 2022 | from 7pm

Please bring your ticket

Wodan Halle
Leo-Wohleb-Straße 4
79098 Freiburg

VAG Tram 1 – stop Brauerei Ganter



Posters

1. Quantitative transport mapping (QTM)

Wang, Yi

2. The life within a packed bed: An MRI approach

Romijn, N. (Noah); Baltussen, dr.ir. M. W. (Maike); Buist, dr.ir. K. A. (Kay); Kuipers, Prof.dr.ir. J. A. M. (Hans)

3. The B0 field stimulates the inner ear via magnetic vestibular stimulation (MVS) leading to modulations of resting-state networks

Boegle, Rainer; Kirsch, Valerie; Dieterich, Marianne

4. Magnetic Resonance Multitasking: Motion-resolved, Multi-parametric Mapping for quantitative Cardiovascular Imaging

Lee, Hsu-Lei; Cao, Tianle; Mao, Xianglun; Li, Debiao; Christodoulou, Anthony G.

5. Evaluation of Mitral Valve Regurgitation by Intraventricular Four-dimensional Flow

Cardiovascular Magnetic Resonance – A Systematic Review on the Technological Aspects and Current Clinical Applications.

Safarkhanlo, Yasaman; Jung, Bernd; Gräni, Christoph

6. A 128-Channel head coil array for Cortical Imaging at 7 Tesla

Gruber, Bernhard; Stockmann, Jason P.; Keil, Boris; Mareyam, Azma; Bilgic, Berkin; Feinberg, David; Wald, Lawrence L.

FRIDAY, 1.7.2022

9:00 am	Registration
9:45 am	Musical Intro
9:45 – 10:10 am	Opening Remarks <i>Jürgen Hennig</i> <i>Maxim Zaitsev</i>
	<i>Moderator: Maxim Zaitsev</i>
10:10 – 10:40 am	Taking the Path Less Travelled by <i>Jim Pipe</i>
10:40 – 11:10 am	The Benefit of Biological Inspiration and Guidance for MR Hardware <i>Larry Wald</i>
11:10 – 11:40 am	My favorite great ideas which never worked out <i>Jürgen Hennig</i>

11:40 – 13:00 pm **Lunch and poster viewing**

	<i>Moderator: Jürgen Hennig</i>
13:00 – 13:30 pm	Daring escapades show intriguing general notions <i>Jan Korvink</i>
13:30 – 14:00 pm	The Art of Technology Development and Research Collaborations <i>Gerhard Laub</i>
14:00 – 14:30 pm	Blood Flow in the Human Circulatory System: Exploring the 4th and 5th Dimensions <i>Michael Markl</i>
14:30 – 15:00 pm	MRI beyond SENSE <i>Klaas Prüssmann</i>

15:00 – 15:30 pm **Coffee and poster viewing**

	<i>Moderator: Michael Markl</i>
15:30 – 16:00 pm	High Field MRI from 2T to 7T <i>Oliver Speck</i>
16:00 – 16:30 pm	Balanced or Non-Balanced: All in Steady State? <i>Klaus Scheffler</i>
16:30 – 17:00 pm	MR-Fingerprinting <i>Nicole Seiberlich</i>

SATURDAY, 2.7.2022

	<i>Moderator: Oliver Speck</i>
9:00 – 9:30 am	From rural China to QSM and beyond <i>Yi Wang</i>
9:30 – 10:00 am	The Never Ending Adventures in Computational MRI <i>Miki Lustig</i>
10:00 – 10:30 am	Fun in the Field: From Magnets to Tractors <i>Mike Garwood</i>

10:30 – 11:00 am **Coffee and poster viewing**

	<i>Moderator: Mike Garwood</i>
11:00 – 11:20 am	The Other Side of Science – Running ISMRM <i>Roberta Kravitz</i>
11:20 – 11:40 am	Nine Stories: MRI Myths and Miscues in Science, Medicine, and/or Commerce <i>Greg Hurst</i>
11:40 am – 12:00 pm	Career Choices - From Science to Industry <i>Rebecca Ramb</i>
12:00 – 12:30 pm	A Magnetic Journey <i>Daisy Chien</i>

12:30 – 13:40 pm **Lunch and poster viewing**

	<i>Moderator: Jan Hoeverner</i>
13:40 – 14:10 pm	From Structural Biology to MRI/MRS and back <i>Chris Boesch</i>
14:10 – 14:40 pm	MRI and MRS: A Random Walk into Random Walks <i>Thomas Ernst</i>
14:40 – 15:10 pm	MR Studies in Neuropsychiatric Disorders and Future Perspectives <i>Linda Chang</i>

15:10 – 15:40 am **Coffee and poster viewing**

	<i>Moderator: Chris Boesch</i>
15:40 – 16:10 pm	Mesoscale fMRI - Ancient, Current, and Next Generational <i>David Feinberg</i>
16:10 – 16:40 pm	The Future of MRI <i>Peter Börnert</i>

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