

MgSafe Workshop

**Magnets Spins and Resonances /
MRI Theoretical Basics / MRI "hands on"**

Date: 10 Mai 2021

Institution: Hannover Medical School, Hannover

Carl-Neuberg-Str. 1, 30625 Hannover, Germany

DAY 1		10TH OF MAI: MAGNETS RESONANCES IMAGES
10:00	- 16:30	Basics of Magnetic Resonance Imaging (Martin Meier)
10:00	10:10	Welcome and Introduction
10:10	10:45	From Proton to Picture - some basics of MRI
10:45	11:00	(1,3,7-Trimethylxanthin) Have a Break
11:00	11:30	Structural and Functional Imaging with MRI – some examples
11:30	12:00	Our virtual immersive lab tour
12:00	13:00	Lunch Break
13:00	- 16:00	Practical considerations and your own experiment with MRI
13:00	13:45	What's in that box? Design your own experiment (in groups)
13:45	14:00	Move your body (oxygenate your brain)
14:00	14:30	(How to) View your images.
14:30	15:00	Pifalls – Artifacts –Reality: Distinguishing reality, normal variants and artifacts.
15:00	15:30	How to combine with other modalities: limitations and prospects
15:30	16:00	Do you remember? Let's Kahoot
16:00	16:30	Wrap Up: Time for open Questions and suggestions