

# MoBi 2021

## 4<sup>th</sup> GyMIC Molecular Imaging Symposium

### Where?

virtual  
via the highly interactive platform  
**Gather Town** (check it out!)

### When?

**1.-2.07.2021**

### CONFIRMED SPEAKERS

Alessandra Cambi, Nijmegen, NL

Thilo van Eimeren, Cologne

Katharina Lückerath, Essen

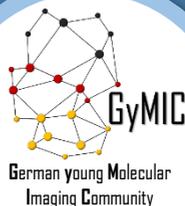
Nils Petri, Würzburg

### ABSTRACT DEADLINE

01.06.2021

### REGISTRATION DEADLINE

30.06.2021



Contact us via email: [gymic@esmi-insight.eu](mailto:gymic@esmi-insight.eu)

Follow us on Twitter: [@GyMIC\\_youngESMI](https://twitter.com/GyMIC_youngESMI)

More information on:

<https://e-smi.eu/young-esmi/yesmi-events/mobi-2021/>

# Content

<b>Welcome</b>	<b>3</b>
<b>Conference venue</b>	<b>4</b>
<b>Schedule</b>	<b>5</b>
<b>About the GyMIC</b>	<b>7</b>



# Welcome

Dear colleagues, students, and friends,

Welcome to the digital MoBi 2021, the 4<sup>th</sup> MoBi meeting organized by the *German Young Molecular Imaging Community* (GyMIC) under the umbrella of the *German Interdisciplinary Network for Molecular Imaging* and the *European Society for Molecular Imaging (ESMI)*.

The MoBi is a young-scientists-driven meeting that provides an easy entry into the broader community of the ESMI and the German imaging community. As in previous years, we have secured a number of excellent senior and junior speakers. Beyond this, the MoBi provides a platform for our young scientists in the field of molecular imaging to present and discuss their own research as well as to extend their scientific network in a relaxed atmosphere.

As you might know, due to the coronavirus outbreak we had to cancel the MoBi 2020 that was supposed to take place in Hanover last year. This year, as the ‘third wave’ struck Germany in March and April 2021 and vaccines were still not available for everyone, we made the hard choice to organize this year's MoBi as a digital event. After a year of online meetings, online conferences and webinars, however, we're all getting a little tired of online events – we get that. Nonetheless, we tried to provide you with a fun and interactive get-together to discuss your science with the community and to offer a platform where you can actually control with whom you are talking.

So this year, the MoBi will take place in gather town, a virtual conference venue (please have a look at the map on the next page) that we build specifically for the MoBi! You will enter or ‘spawn’ in the foyer from where you can walk upwards with your avatar to the main room. Here you will find the sponsor booths (go check them out!) and some tables to rest and connect with the other participants. On the right we have the keynote room where all the talks will take place and on the left you will find a seminar room, that you can use whenever you like. Above the seminar room, you will find the lounge. In the lounge, we set up a bar and a fireplace to hang out and at the tables you can play all sorts of games such as poker or werewolf, you can even play the piano! We hope you will make use of the lounge to enlarge your network within the molecular imaging community.

We are certain that you will enjoy the meeting, its exceptional scientific program, the chance to exchange ideas with your friends and colleague, and the tiny little gather town we build for you. Thank you for attending our conference and bringing your expertise to our gathering.

Yours,

**Jan-Niklas May**

*Chair of GyMIC*

*Institute for Experimental Molecular Imaging, Aachen*

**Janette Iking**

*Co-Chair of GyMIC*

*Dept. of Nuclear Medicine, University Hospital Essen*

And the MoBi organizing committee:

**Annika Hess, Hannover**

**Nele Hermanns, Hannover**

**Sophie Stotz, Tübingen**

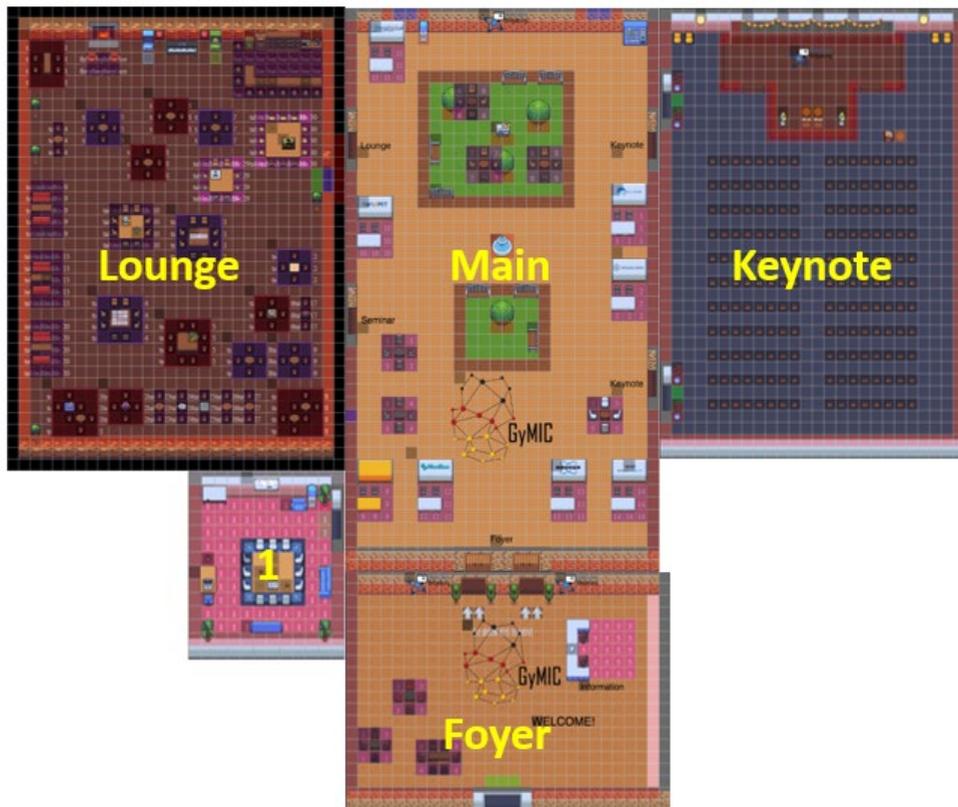
**Daniel Gündel, Leipzig**

**Jana Humbert, Kiel**

**Jonas Albers, Göttingen**

**Yavuz Uca, Berlin**

# Gather Map



## Conference Venue

You will receive an one-time link to access gather.town via email once you enter the email address you provided during registration.

# Schedule – Thursday, 1 July 2021

12:00	<i>Get familiar with gather.town!</i>	14:48	Influence of repeated CT (FMT) measurements on animal welfare and tumor physiology in healthy and 4T1-breast cancer bearing mice <i>Jasmin Baier, Aachen</i>
13:00	<b>Welcome @ Keynote</b> <i>Frauke Alves, Göttingen</i> <i>Jan-Niklas May, Aachen</i> <i>Janette Iking, Essen</i>	15:00	Coffee Break @ Lounge
<b>Session 1: Cancer Imaging &amp; Theranostics</b> <i>Chairs: Daniel Gündel &amp; Magali Toussaint, Leipzig</i>		<b>Session 2: Neuro Imaging</b> <i>Chairs: Nele Hermanns, Hannover &amp; Alexa Hasenbach, München</i>	
13:30	<b>Preclinical theranostics in cancer research</b> <i>Katharina Lückeroth, Essen</i>	15:30	<b>Precision medicine and beyond: imaging biomarkers in neurodegenerative diseases</b> <i>Thilo van Eimeren, Köln</i>
14:00	Combined Androgen Receptor and DNA damage response inhibition to enhance prostate-specific membrane antigen (PSMA)-directed radioligand therapy of PSMA-low prostate cancer <i>Magdalena Staniszewska, Essen</i>	16:00	Drug delivery across the blood-brain barrier – ultrasound modulation of an in vitro model <i>Christopher Hark, Aachen</i>
14:12	Adaptation to low microenvironmental pH and p53 protein function in pancreatic ductal adenocarcinoma <i>Jakub Mitrega, Göttingen</i>	16:12	Investigation of short-term effects of transcranial direct current stimulation in rat auditory cortex: a 9.4 T MR-spectroscopy study <i>Fahmida Akter, Magdeburg</i>
14:24	In vitro Imaging of uptake of Theranostic Fluorescent and Gemcitabine containing Hybrid Nanoparticles applying into Pancreatic Ductal Adenocarcinoma Cells <i>Myrto Ischyropoulou, Göttingen</i>	16:24	Establishing Auditory Stimulated fMRI in the Mongolian Gerbil <i>Annika Michalek, Magdeburg</i>
14:36	Establishment of imaging features of rectal cancer as new predictive biomarkers for the ‘watch-and-wait’ strategy <i>Bharti Arora, Göttingen</i>	16:36	Cerebral Amyloid Angiopathy (CAA): Evaluation and comparison of fluorescent dyes and a potential PET radiotracer providing CAA imaging <i>Daniel Bleher, Tübingen</i>
		17:00	<b>GyMIC Member Meeting</b> <i>Chair Election</i>
		17:30	<b>Social Gathering @ Lounge</b>

# Schedule – Friday, 2 July 2021

## Session 3: Novel Probes & Techniques

Chairs: Jan-Niklas May, Aachen & Sophie Stotz, Tübingen

10:00 **Advanced fluorescent microscopy to investigate leukocyte mech(n)anobiology**  
*Alessandra Cambi, Nijmegen*

10:30 Hyperpolarized  $^{13}\text{C}$ -labelled Z-OMPD enables in vivo pH imaging  
*Pascal Wodtke, München*

10:42 The MERMAID Project - PET imaging of small aquatic animals  
*Steven Seeger, Lübeck*

10:54 Alternative application routes for small animal theranostic ligands  
*Jasmin Klose, Essen*

11:06 Evaluation of the therapeutic efficacy of a nanovaccine in mouse model of pancreatic cancer  
*Daniele Ferrari, Göttingen*

11:18 Influence of repeated Ultrasound Imaging on Animal Welfare  
*Renée Girbig, Aachen*

11:30 Dye labeling strongly influences uptake and biodistribution of medical polymers  
*Sarah Schraven, Aachen*

11:45 Coffee Break

12:00 **Scientific Speed Dating @ Lounge**

13:00 Coffee Break

## Session 4: Cardiovascular Imaging

Chairs: Annika Hess, Hannover & Janette Iking, Essen

13:30 **Simulation of cardiac interventions**  
*Nils Petri, Würzburg*

14:00 Non-invasive assessment of fatty acid metabolism in rats via PET/MRI  
*Usevalad Ustsinau, Wien*

14:12 Evaluating  $^{68}\text{Ga}$ -FAPI-46 to assess fibroblast activation protein in cardiac fibroblasts in vitro and after myocardial infarction in mice.  
*Maday Fernandez-Mayola, Hannover*

14:24 Evaluating the neutrophil contribution to cardiac and neuroinflammation after acute myocardial infarction  
*Kelsey Lolatte, Hannover*

14:36 Cross-validation of arterial input functions by simultaneous recordings of MR contrast agents and their radioactive analogs in mice  
*Florian Gierse, Münster*

14:48 Longitudinal characterization of biohybrid tissue-engineered vascular grafts scaffold resorption and tissue remodelling via molecular MR and US  
*Elena Rama, Aachen*

15:15 **Awarding & Farewell**

15:45 **END**

# About the GyMIC

The MoBi is organized by the **German Young Molecular Imaging Community (GyMIC)** under the umbrella of the *European Society for Molecular Imaging (ESMI)*. The main goal of the **GyMIC** is the establishment of a national network for young imaging scientists in order to provide opportunities for knowledge exchange within a collaborative environment. In this context we would like to host creative meetings which will give members the opportunity to gain experience in presenting data and public speaking, participate in inspiring discussions, or get involved in the organization of the MoBi itself (**would you like to host the MoBi in your city? Get in touch!**). Overall we aim to provide an easy entrance into the international environment of the ESMI – see also [www.e-smi.eu/index.php?id=gymic](http://www.e-smi.eu/index.php?id=gymic).

## How to join the GyMIC?

### For ESMI Members:

Just log-in to your ESMI member portal [www.esmi-insight.eu/membership/](http://www.esmi-insight.eu/membership/), proceed to edit your membership details and tick the respective GyMIC box.

**For Non-ESMI Members:** Just contact us through [gymic@esmi-insight.eu](mailto:gymic@esmi-insight.eu)

Be invited to join the **GyMIC** and to forward the announcement to your colleagues and collaborators. There is no age limitation or the need to speak German as long as you feel like a young ambitious imaging scientist!

We are looking forward to welcoming you as a new member of the GyMIC.

Please do not hesitate to contact us for further information either via the ESMI office, through [gymic@esmi-insight.eu](mailto:gymic@esmi-insight.eu) or directly at the MoBi 2021 – **just look out for the number 1 in front of our names in the chat.**

Best regards,

Your **German young Molecular Imaging Community**

