



MESI-STRAT

Systems Medicine of Metabolic-Signaling networks -
A New Concept for Breast Cancer Patient Stratification

Annual Meeting

April 2 – 3, 2020

Meeting Program



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 754688.

Dear MESI-STRAT partners and advisory board members,

It is our great pleasure to welcome you to our first virtual MESI-STRAT Annual Meeting. Although we are used to videoconferences, connecting so many people over two days is new to us as well.

We warmly thank our advisory board members Dr. Andreas Raue, Dr. Gerburg Wulf, Dr. Pernette Verschure, Prof. emerita Anne-Lise Borresen-Dale, and Ellen Verschuur for joining our meeting and we look very much forward to their valuable input and in depth discussions.

A special welcome goes to our project officer Dr. Laia Quirós Pesudo who kindly joins our meeting. During these challenging times of the Corona pandemic, this is an exceptional expression of dedication and support for MESI-STRAT. We are very much looking forward to fruitful discussions and we thank the European Commission for her advice on the navigation of MESI-STRAT through the current challenges.

One year ago, we all met in Heidelberg. Since then a lot has happened, both our clinical trials have started, and experimentalists as well as modelers now all work intensely on their tasks. In October 2019, the Executive Board convened in Norway. Since then, much work has focused on our deliverable “The first MESI model parametrized for patient samples” which now approaches its finalization. Further upcoming milestones and deliverables in 2020 will build on our first MESI-model and relate to the prediction and development of markers for patient subgroups. Almost halfway through our project, this is a good moment to jointly discuss our progress and receive in depth input from our advisory board, to plan our next steps and to recognize and exploit arising opportunities.

A special challenge is currently being imposed on us by the COVID-19 pandemic, which affects the work at all partner sites. We continue to be in touch with all partners to manage this situation; our meeting will provide an opportunity for further exchange on the implications for our project and the necessary mitigation measures. This will also be on the agenda of the General Assembly, which convenes on April 2.

We will dedicate the morning of our first day to updates on the progress in our different work packages. The work package leaders will give an overview of the work done in the last year as a basis for subsequent discussions and refinement of our action plans. After lunch, the PIs will retreat for the General Assembly and take several management decisions. The *MESI-STRAT NextGen* participants will convene with the advisory board for the first workshop session on current challenges and opportunities in MESI-STRAT. Two parallel workshops will focus on (1) the integration of small scale modeling and large scale data mining; and (2) the validation of computational model predictions in preclinical models and patient cohorts. In a second workshop session, *MESI-STRAT NextGen* will present their results and ideas to the MESI-STRAT PIs to develop them further and integrate them with our planning for the next year. Please note our suggested assignment of participants to each workshop and let us know in case you would like to switch to the other group.

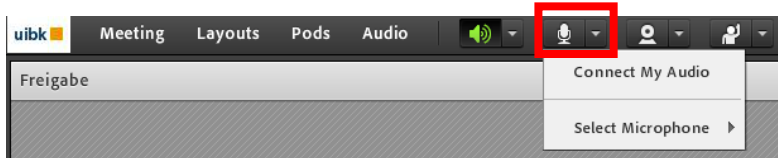
The second day will start with communication achievements and challenges, and a reminder on data sharing guidelines. Afterwards we will hear short presentations about the action plans developed in the two workshops, followed by in depth discussions in the plenum on their implementation and alignment with our ongoing work. Afterwards, the PIs retreat to take the related decisions. In the afternoon, a hands-on workshop on how to use MESI-SEEK and our newly developed MESI-STRAT data share point will give the opportunity to ask questions and discuss practical issues with our data scientists.

We look very much forward to an enjoyable meeting with fruitful and exciting discussions.

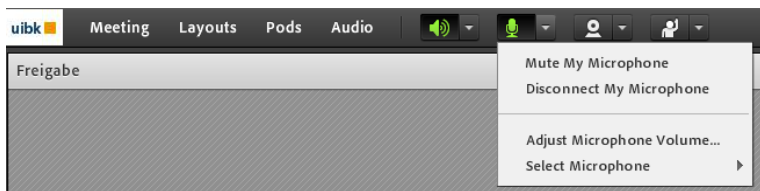
Best wishes, Kathrin Thedieck and Petra Engele

Practicalities

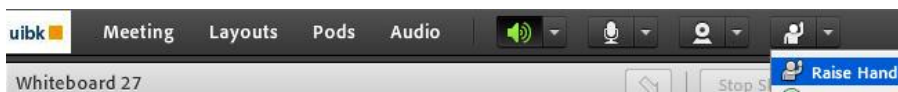
1. Link to our Adobe Connect Meeting: <http://uibk.adobeconnect.com/mesistrat/>
2. If possible download the application and do not join via your browser
3. Sign in with your full name, organization, and role [e.g. Alexander Heberle (UIBK, PostDoc)]
4. Select “Connect My Audio” after entering the meeting room.



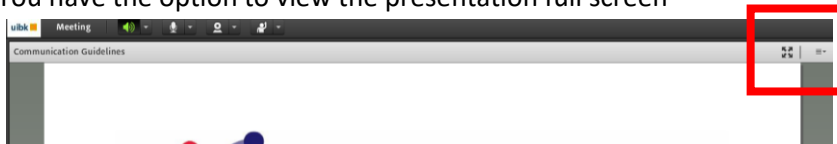
5. Select your headset with the “Select Microphone” option,



6. Please mute your microphone when you are not speaking.
7. Use the “Raise Hand” button, if you want to say something. Do not forget to unmute your microphone



8. By clicking on a participants name you can start a private chat
9. You have the option to view the presentation full screen



10. If you have any technical difficulties, please start a private chat with one of our UIBK PhD students who will provide technical support (identified next to their participants name)
For further assistance, you can also contact Petra Engele via e-mail (petra.engele@uibk.ac.at), Skype (petraengele) or WhatsApp (+43 663 03238106)

Meeting Program

Thursday, April 2nd, 2020

Time	Topic	Speaker/Contributors
08:30 – 09:00	Set-up and Introduction	K. Thedieck / P. Engele (UIBK)
09:00 – 09:30	Welcome Address	K. Thedieck (UIBK)

Session 1: Preclinical and clinical work <i>Chair: C. Opitz</i>		
09:30 – 09:50	WP1 MESI-REPOSITORY and the ET termination trial (WP7)	S. Torkler (PATH)
09:50 – 10:10	WP6 CLINICAL STUDIES AND LONGITUDINAL ANALYSES and the WOO-Trial (WP7)	C. Opitz (DKFZ)
10:10 – 10:30	PRECLINICAL MODELS in WP7	V. Serra (VHIO) B. van den Eynde (DDI)
10:30 – 11:00	Coffee Break (Possibility for meetings in small groups)	

Session 2: Experimental and modelling work <i>Chair: K. Thedieck</i>		
11:00 – 11:20	WP3 SIGNALING NETWORKS for model parameterization & validation	C. Sers (CHAB)
11:20 – 11:40	WP4 METABOLIC NETWORKS for model parameterization and validation	M. Ziegler (UiB)
11:40 – 12:20	WP5 INTEGRATIVE MESI NETWORK MODELING AND NETWORK ANALYSES	D. Shanley (UNEW) I. Heiland (UiT)
12:20 – 13:30	Lunch Break (Possibility for meetings in small groups)	

Session 3: General Assembly		
13:30 – 15:30	General Assembly	All PIs

Session 4: Workshops		
13:30 – 15:30 PostDocs, PhD, Technicians with IAB: identifica- tion of action points and re- finement of ac- tion plan	Workshop 1: Chair A. Heberle, UIBK Our next challenge	
	Pitch presentation: Exploiting the synergies of large scale data mining with small scale ODE based modelling (A. Heberle)	See list of participants on page 6 PIs join after General Assembly
15:30 – 17:30 Presentation of action points and discussion with the PIs	Workshop 2: Chair. T. Prentzell, DKFZ The integration challenge	
	Pitch presentation: preclinical <i>in vitro</i> and <i>in vivo</i> models and clinical data and cohorts in MESI-STRAT (T. Prentzell)	See list of participants on page 6 PIs join after General Assembly

Friday, April 3, 2020

Time	Topic	Speaker/Contributors
Session 5: Communication and Data Management		
8:15 – 8:30	Meeting Setup	K. Thedieck / P. Engele (UIBK)
8:30 – 9:00	Communication: achievements, challenges and guidelines	P. Engele
9:00 – 9:30	WP2 DATA MANAGEMENT: achievements and opportunities	S. Grellscheid, O. Krebs, W. Müller
9:30 – 10:00	Coffee break (Possibility for meetings in small groups)	

Session 6: Team Presentations and Discussion		
10:00 – 10:15	Management: Evolution of Consortium Upcoming Deliverables and Milestones	K. Thedieck (UIBK)
10:15 – 11:00	Presentation of workshop results (15 min / team)	All participants
11:00 – 13:00	Discussion: implementation of workshop results and strategy for the next 12 months	All participants
13:00 – 14:00	Lunch Break (Possibility for meetings in small groups)	

Session 7: Strategic decisions		
14:00 – 16:00	Decisions on project strategy and action points	PIs, IAB

Session 8 : Hands on Workshop		
16:00 – 18:00	MESI-SEEK and the new MESI-STRAT share point	S. Grellscheid, O. Krebs, W. Müller