



Program

Including links to the abstracts

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Dear friends of cytometry,

welcom to the annual meeting of the German Society for Cytometry - DiGifZ2021! Thank you for your enthusiastic response emphasized by your many registrations and abstracts – from Germany and all over the world.

The DiGifZ2021, as a ZOOM meeting, waits for you with an exquisite scientific program with internationally renowned speakers next to tutorials in several areas of cytometry as well as excellent webinars organized by our partners from the industry. The tutorials and the industry webinars will start already on Monday, September 27th.

To underline the international character of the conference and continuing the tradition of the DGfZ, we will welcome this year Prof. Rachel Errington, president of ISAC, and Dr. Andy Filby from the UK in the European guest session.

This year, we set the scientific focus of the conference on technological and methodological development enabling us new perspectives on cells. From the keynote speaker, Prof. Chris Xu, we will learn how in vivo three-photon microscopy helps to unravel neuronal functions in up to now unprecedented tissue depths in the mouse brain. Further, we extended the palette of established cytometric technologies with new tools allowing to access additional cellular parameters: we now have a special session dedicated to Mechanocytometry. Our Guest Lecture Speaker, Prof. Carolina Wählby, will give us an introduction on emerging AI algorithms for imaging cytometry analysis.

Last but not least, the winner of the Klaus-Goerttler-Prize, will give insight into the role of CD8 T cells in COVID19 pathology revealed by high-dimensional cytometry.



The core sessions of the conference are perfectly complemented by exciting industry webinars. As last year, we will have a Quiz referring to these talks and you have the opportunity to win one of three iPad Airs!

Besides, you will be able to connect with other participants in smaller, flexible groups during virtual coffee breaks via the Discord platform – available throughout the week.

I am very much looking forward to seeing and discussing with you about latest advances in cytometry technologies and their currently highly relevant applications at DiGifZ 2021! It is still time to register. Registration until 23rd of September will guarantee to be included in the list of participants in our abstract book.

Raluca Niesner

President of the DGfZ

Monday, September, 27th, 2021

10:00am - 12:00pm **Tutorials in parallel**

1. Flow Cytometry *Chairs: Toralf Kaiser, Claudia Giesecke-Thiel*
2. Mass Cytometry *Chairs: Bertram Bengsch, Désirée Kunkel, Henrik Mei, Henrike Salié, Axel Schulz, Sarah Warth*
3. Publication in Cytometry A *Chair: Attila Tarnok*

12:30pm - 13:00pm **Webinar by BD**

13:30pm - 14:00pm **Webinar by Cytek**

Tuesday, September, 28th, 2021

10:00am - 12:00pm **Tutorials in parallel**

4. Image Analysis *Chair: Ralf Köhler*
5. Mechanocytometry *Chairs: Oliver Otto and Daniel Klaue*

13:30pm - 14:00pm **Webinar by Luminex**

14:30pm - 15:00pm **Webinar by OLS**

Wednesday, September, 29th, 2021

9:00am - 9:30am **Webinar Cell Signaling**

10:00am - 10:30 am **Webinar by Fluidigm**

11:45am - 12:00pm **Welcome to the DiGifZ Annual Meeting 2021**

Raluca Niesner

12:00pm - 1:30pm **Session 1 - Imaging**

Chairs: Anja Hauser, Raluca Niesner

Chika Yokota, Stockholm, Sweden

Simon Ameer-Beg, London, UK

Anna Pascual-Reguant, Berlin, Germany

Henrike Salié, Freiburg, Germany

2:00pm - 3:00pm **Product Slam**

Chairs: Elmar Endl, Thomas Bauer

Industrial partners will present their newest innovative technological developments and products

3:00pm - 3:30pm **Webinar by Miltenyi Biotec**

4:00pm - 5:00pm **Session 2 - Cutting Edge, Part 1**

Chairs: Henrik Mei, Asylkhan Rakhymzhan

Na Ji, Berkeley, US

Axel Schulz, Berlin, Germany

Ruth Leben, Berlin, Germany

5:00pm - 6:00pm **Keynote Lecture**

Chair: Andreas Radbruch

Chris Xu, Ithaca, US

6:30pm - 8:30pm **Core facility Networking Event**

Chairs: Désirée Kunkel and Christian Kukat

Claudia Dumrese

Attila Bebes

Thursday, September, 30th, 2021

9:30am - 10:00am **Klaus-Goerttler-Session**

Chair: Raluca Niesner

Goerttler Award ceremony

Awardee: Janine Kemming

10:00am - 11:00am **European Guest Session: UK**

Chairs: Raluca Niesner, Henrik Mei

Andrew Filby, New Castle, UK

Rachel Errington Cardiff, UK

11:30am - 12:30pm **Speed Talks**

Chairs: Henrik Mei, Oliver Otto

three minutes presentations plus short discussion - speed talks chosen from abstracts

12:30 :00pm - 1:30pm **break**

1:30pm - 2:00pm **Webinar by Zellmechanik Dresden**

2:30pm - 4:00pm **Session 3 - Core Facility Session**

Chairs: Christian Kukat, Frank Schildberg

Rui Gardner, New York, US

Anna Belkina, US

Linda Hammerich Berlin, Germany

4:30pm - 5:30pm **Guest Lecture: Artificial Intelligence in Cytometry**

Chairs: Raluca Niesner, Henrik Mei

Carolina Wählby, Uppsala, Sweden

5:30pm - 7:00pm **Members Assembly**

Chairs: Raluca Niesner, Henrik Mei

All Members get the meeting link via email!

Friday, October, 1st, 2021

8:30am - 9:00am **Session 2: Cutting Edge, Part 2**

Chairs: Henrik Mei, Asylkhan Rakhymzhan

Nao Nitta, Tokyo, Japan

9:00am - 10:30am **Session 4: Mechanocytometry**

Chair: Oliver Otto, Marta Urbanska

Keisuke Goda, Tokyo, Japan

Jochen Guck, Erlangen, Germany

Peter Nestler, Greifswald, Germany

Marta Urbanska, Dresden and Erlangen, Germany

11:00am - 12:30pm **Session 5: Microbiology**

Chairs: Christin Koch, Hyun-Dong Chang

Thomas Clavel, Aachen, Germany

Ruben Props, Gent, Belgium

Li Shuang, Leipzig, Germany

Lisa Budzinski, Berlin, Germany

12:30pm - 1:00pm **Webinar by Beckman Coulter**

1:30pm - 3:00pm **Session 6: Nanotechnology**

Chairs: Wolfgang Fritzsche, Ulrike Taylor

Tina Bürki, Zurich, Switzerland

Carolin Philipp, Büsum, Germany

Christin Möser, Leipzig, Germany

3:00pm - 3:30pm **Speed Talk Award and Farewell**

Speed Talk Award Ceremony

Farewell by Raluca Niesner

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