

**THE**  
**INTERNATIONAL**  
**LIVER**  
**CONGRESS**™

BEATING LIVER DISEASE *together*  
23-26 JUNE 2021

# Basic Science Seminar



Artificial intelligence, “omics”,  
and big data in liver research

Wednesday 23 June 2021  
10:00-17:45 CET

# About the 2021 Basic Science Seminar

The one-day Basic Science Seminar at ILC 2021 focuses on the cutting-edge topics of artificial intelligence, “omics”, and big data in liver.

The seminar aims to foster interaction with the audience and is organised like a workshop, with no classical lectures. The purpose of this seminar is to attract professionals from the basic science field and to discuss specific topics where invited speakers have the opportunity not only to present their success stories, but also failures, generating a lively and informative discussion.

The format is sets of 15-minute presentations, followed by Q&A discussion of 15 minutes.

## Course organisers



Tom Hemming **KARLSEN**  
Norway



Tom **LÜDDE**  
Germany



Jessica **ZUCMAN-ROSSI**  
France

# Programme topics include:

- Artificial intelligence
- “Omics” applications
- Single-cell assessments
- Emerging technologies
- Clinical applications

## Programme overview

The Basic Science Seminar at ILC 2021 will focus on artificial intelligence, “omics” and big data in liver research.

In recent years there has been a rapid development of new scientific methods and innovations, which are increasingly used in hepatological research. For example, new methods allow large “omics” data sets to be collected and interpreted on a single-cell level. At the same time, artificial intelligence offers the possibility to design algorithms suitable for the recognition of complex optical patterns and application in diagnostics or the prediction of therapy responses. These new methods offer completely new possibilities for understanding hepatological diseases.

Gaining a deeper understanding of these methods, and of their limitations and ethical prerequisites, can inspire your own research and help to answer the scientific questions of the future. We trust you will enjoy attending this course and that you will find it informative and useful for your hepatology practice.

## Learning objectives:

- What are the principles of multi-omics approaches and artificial intelligence?
- What types of scientific questions can be answered with the new technologies?
- What potential pitfalls and ethical requirements pertain to these methods?
- How can I establish these techniques in my own lab?
- Whom can I ask for help and collaboration?

Interested in participating?  
**Register today!**



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