



**University
of Basel**

Faculty of
Medicine



Role and Impact of Digitalization and Artificial Intelligence in Drug Development

Continuing Education Series:
Frontiers in Drug Development

**Biozentrum,
Spitalstrasse 41,
4056 Basel**
Thursday, 8 September, 2022
08:30 – 16:15

ECPM[®]
European Center of Pharmaceutical Medicine

ADVANCED STUDIES

Under the auspices of
EUCOR, the European Campus
IFAPP, Int. Federation of Associations of Pharmaceutical Physicians
and Pharmaceutical Medicine

Accredited by SwAPP/SGPM and FPH SPITAL
Recognized as PharmaTrain Centre of Excellence



Invitation

An enormous amount of health-related data is generated daily. It includes clinical data, genomic and other omics data, data from biobanks and data collected by individuals themselves. These data will also benefit the population at large by improving the early recognition of health risks, the development of new health strategies as well as providing information for drug discovery and development.

Digital health is viewed at the policy level as a strategy to achieve more efficient and convenient health care delivery.

In 2020, a Machine-Learning algorithm helped researchers to develop a potent antibiotic that works against many pathogens (see

Nature, <https://doi.org/10.1038/d41586-020-00018-3>). Artificial intelligence (AI) and Machine-Learning are also used in numerous other applications throughout drug development.

In this seminar, we would like to discuss the widespread adoption of digital technologies and the use of AI in drug development and clinical trials. These technologies offer new horizons but raise not only important ethical and legal questions in health care and public health but also in patent law when the inventor is a machine not a human.

We would like to invite you and your colleagues to our seminar.



A handwritten signature in black ink, appearing to read 'Thomas Szucs'.

Prof. Dr. Thomas D. Szucs
Director



A handwritten signature in black ink, appearing to read 'Annette Mollet'.

Dr. Annette Mollet
Head of Education & Training



A handwritten signature in black ink, appearing to read 'Evelyn Fischer'.

Evelyn Fischer
Course Manager

Role and Impact of Digitalization and Artificial Intelligence in Drug Development

Chair: Susanne Driessen, swissethics, Bern (Morning)
Annette Mollet, ECPM Basel (Afternoon)

08:30

Vision of Digital Health & Therapeutics

Caoimhe Vallely-Gilroy, Merck, Darmstadt

Digital Twins

Jeffrey David Iqbal, University of Zurich, Zurich

10:00 – 10:30

Coffee Break

Generating Real World Evidence from Secondary Data: Methods, Opportunities and Perspectives

Massoud Toussi, IQVIA, Courbevoie

Ethical Aspects of Artificial Intelligence

Susanne Driessen, swissethics, Bern

12:15 – 13:00

Lunch Buffet

The Legal Regulation of Artificial Intelligence

Thomas D. Szucs, ECPM Basel, Basel

Promises in the Use of AI in Clinical Research: The Road Towards in-silico Trials

Lada Leyens, F. Hoffmann – La Roche AG, Basel

14:30 – 14:50

Coffee Break

Clinical Transformational Progress with Emerging Technologies

Sam Laermans, NNIT, Frankfurt

Digital Biomarkers

Alain van Gool, Radboud University Medical Center, Nijmegen

About Frontiers in Drug Development Seminars

ECPM offers one day seminars on new trends and developments in drug development science. These seminars provide the opportunity to integrate work and further education, to discuss with experts face-to-face and to build an international network. They take place on the fourth day of each of the six modules of the ECPM Diploma Course and are mandatory for students taking the Diploma Course. Additionally they are open to our alumni and other interested scientists and can be booked separately.

Learning Outcomes

Participants will learn about the:

- Technologies, Computer Simulation and Modeling, Personalized Medicine, Genomics, Biologicals and Biosimilars, and Advanced Therapeutics
- Regulatory Agency updates from FDA, EMA and Swissmedic
- Ethical, Economic and Epidemiological Considerations and Concepts in Drug Development

Date and Venue

September 8, 2022
University of Basel
Biozentrum
Spitalstrasse 41
4056 Basel
Switzerland

Registration

Via our homepage www.ecpm.ch or
www.ecpm.ch/frontiers-in-drug-development-s4

Deadline for Registration: August 26, 2022

Credits

Six workshops over a period of two years, which equal 1 ECTS credit. Accredited as continuing education with eight credits by the Swiss Society of Pharmaceutical Medicine (SGPM) and the Swiss Society of Pharmaceutical Professionals (SwAPP). Accredited with 50 FPH-points in hospital pharmacy and 50 FPH-points in clinical pharmacy by the Swiss Society FPH Spital (Fachgesellschaft FPH Spital).

Fee

Course fee including certificate and electronic course material is CHF 680 and CHF 580 for ECPM Alumni and SwAPP/SGPM members. The reduced fee applies also to participants from academia and nonprofit organizations.

After registration you will receive an invoice. For short notice registration, please send a copy of the money transfer to ecpm@unibas.ch.

Cancellation Policy

Refund of fee will be given if cancellation is received in writing before the deadline for registration, after this date no refund can be given. Speakers are subject to change without notice.

Seminar Organizer

This seminar is organized by the European Center of Pharmaceutical Medicine, University of Basel, Switzerland.

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