



Symposium on

# Digitalization and Big Data in Biotech and Pharma

6<sup>th</sup> June 2019

## Aim

The aim of this symposium is to bring together key stakeholders and experts in the interdisciplinary field of technology digitalization in the biotechnological and pharmaceutical sectors. Compared to successful examples of digitalization and automation in other industrial sectors such as automotive, the pharmaceutical sector is clearly far behind. However, in the last decade many efforts are being made towards digitalization of the technological process and business workflow as well as towards management and analytics of the generated data sets. These trends bear many opportunities and challenges for the pharmaceutical industry, which will be addressed and discussed from different technological perspectives.

## Scope

- The role of big data in the pharmaceutical and healthcare business model
- Technological possibilities and limitations for pharmaceutical process digitalization
- The role of quantitative tools and models
- Key technology, expertise and solutions
- The regulatory agency perspective
- Successful industrial implementations and outlook

## Who should attend

The target group of the symposium encompasses professionals from industry as well as academic researchers and students who are interested in the ongoing developments and future trends in the digitalization of pharmaceutical processes.

## Format

This symposium is a networking event where inspiring innovations as well as technological and conceptual trends shall be presented and discussed. A series of expert presentations will be combined with a solution and poster exhibition as well as spotlight presentations, an interactive round-table discussion and a networking lunch.

## Program

A detailed program will be provided until March 2019.

*“10-25 per cent of the cost [...] could be cut if digital technology were used more efficiently.” (Financial Times, 2017)*

Vas Narasimhan, CEO of Novartis

## Organization Team

The symposium is organized by the group of Prof. Morbidelli from the Institute of Chemical and Bioengineering at ETH Zurich, Switzerland. ETH Zurich has been consistently ranked among the top 10 academic institutions worldwide and among the top 5 technical universities. Prof. Morbidelli's team has a widely recognized expertise in upstream, downstream and integrated continuous bioprocessing as well as in the digitalization and modelling of pharmaceutical processes. The latter activities were translated into the ETH spin-off company DataHow AG in 2017. The team is additionally supported by industrial partners.

## Venue

The symposium will be held at ETH Zürich (ETH Hönggerberg site) at the modern and well-equipped chemistry building (full address on last page). Zürich is the largest city in Switzerland and well-connected to the rest of Europe. ETH is minutes from both the main international railway station Zürich Hauptbahnhof and Zurich International Airport.

## Symposium fees

The participation fee is CHF 500 (CHF 300 for academia, CHF 150 for PhD students and CHF 70 for students). This includes all symposium information material in paper and electronic formats, internet access (WIFI) as well as lunch and coffee breaks. It does not include accommodation, travel costs or catering other than indicated above.

## Terms of condition

Confirmation: A confirmation of participation will be provided to each participant after completing the symposium.

Cancellation policy: Cancellation of registration must be submitted in writing or via email and is valid only with acknowledgement of receipt by the symposium officer. Cancellations made after 1<sup>st</sup> May 2019 will be subject to a 50% cancellation fee. Cancellations made after 15<sup>th</sup> May 2019 will be subject to the total fee. A colleague or associate may be substituted without penalty. Full refunds will be made in the case that the symposium is cancelled due to insufficient enrolment.

## Accommodation

Beginning from January 2019, a special accommodation rate at the following 3\* city hotels will be available:

**Hotel Leoneck** ([www.leoneck.ch](http://www.leoneck.ch))

single room @ CHF 155, double room @ CHF 195

**Hotel Sunnehus** ([www.hotelsunnehus.ch](http://www.hotelsunnehus.ch))

single room @ CHF 169.50

All prices indicated are per night and breakfast included. To benefit from a special discount, use the code "**ETH Big Data**" while booking your room (offer valid until April 30<sup>th</sup>, 2019).

## Disclaiming statements

ETH and the course organisers will not assume responsibility for medical expenses of participants or damage caused by participants. All participants are urged to ensure that they are covered by their own travel, health and liability insurance policies while traveling to and from and while attending the course. ETH and the course organisers are not responsible for private possessions lost or stolen at a course.

## Registration

Register online via:

<https://de.surveymonkey.com/r/ETHBigData>

**Early bird discount until February 28<sup>th</sup>: -15%.**

Please contact [bigdata@chem.ethz.ch](mailto:bigdata@chem.ethz.ch) in case of questions. Registration is only complete after payment. Registration is binding unless the minimum of participants cannot be reached.

## Sponsors



**DataHow AG**

A Spin-off Company from ETH

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