Innovations in pharmaceutical development
Europe's premier drug delivery and formulation event

11th Global
DDF Summit
Drug Delivery & Formulation

9 - 11 March 2020 | Berlin

Summit Brochure
www.ddfevent.com
What did the attendees think?

“Informative. Inspiring. Well organized. Felt spoiled (all those breaks and lunches). To the point. Delivering as promised”

Iulia Oita, Stability Manager, Ablynx

“One of the largest and best platforms to bring together large Pharma with advanced CROs/CMOs as well as latest developments in Academia”

Stefan Bracht, Head of Disruptive Technology, Bayer

“Great range of high-quality speakers, comfortable venue and very well organised”

David Harrison, Senior Alliance Lead, UCB Biopharma

“Lot of presentation with high quality, variety of topics, great chance for networking”

Hanna Kuśmierek, Site Manager, Janssen and Cilag

“Very interesting talks. The summit well organized. Amazing experience”

Giulio Cavalli, Process Scientist, Chiesi Ltd

“Well organized, comfortable space, interesting sessions, good networking opportunities”

Mark Howansky, Associate Director, Device Development, Bristol Myers Squibb

“Very good. Excellent breadth of presentations. Good representation from both industry and academia”

David Churchley, Pharmaceutical Development Manager, ECO Animal Health

“Cross active meeting, nice balance between Combination Product and Biologics, very engaging and very good case studies”

Kerstin Walke, Head Pharmaceutical Development, Boehringer Ingelheim
**The perfect mix.** The DDF Summit brings together leading formulation development and drug delivery scientists from both industry and academia to share and discuss their latest work.

**Quality content.** The agenda is packed with carefully selected talks on topics as diverse as the challenges you face.

**Invaluable networking.** The DDF community is open, friendly and represents an incredibly valuable network of scientists working at the forefront of their field. There is ample networking time built in to help you make and strengthen connections.

**Tailor your experience.** Four parallel streams give you the chance to personalise your agenda and delve deep into the topics pertinent to your challenges. Choose from Small Molecules, Biologics, Technology & Innovation or Device Development.

**The right size.** This year the DDF Summit will be limited to just 500 people, in order to maintain the quality of the networking and comfort for participants. This means that there will only be 250 delegate tickets available. So, don’t waste time in getting yours.

Key themes for 2020 include:

- New modalities research opportunities and challenges
- Personalised therapies, mRNA, Cell and gene therapies
- Analytical techniques for biotherapeutics
- 3D printing, flexible manufacturing techniques, continuous manufacturing
- Multivariate analysis techniques, production process optimisation, digitalisation of pharmaceutical development
- mAb and bispecific formulation development
- Oral delivery of biologics and other routes
- Device development, microneedles, connected devices
- Integrating human factors into device development, behavioural design
Stream Highlights: Biologics

- **Personalised Therapies Based on mRNA Drugs**
  Heinrich Haas  
  Vice President RNA Formulation & Drug Delivery, BioNTech RNA Pharmaceuticals

- **Freeze Dryer’s Characterization for the Purpose of scale-up Activities**
  Mostafa Nakach  
  Head of formulation and process development Biologics Drug Product Development, Sanofi

- **Solution Spotlight By Pfanstiehl**
  Pfanstiehl

- **Summary of six years of progress in the Oral Biopharmaceutics area – the EU/IMI project OrBiTo**
  Bertil Abrahamsson  
  Senior Principal Scientist, AstraZeneca

- **Lipid-based Excipients with Advanced Functionality**
  Dr. Sharareh Salar-Behzadi  
  Principal Scientist, Research Center Pharmaceutical Engineering (RCPE)

- **Solution Spotlight By Gore & Associates**
  Gore & Associates

- **Polysorbate Degradation: Implications and Control**
  Satya Kishore Ravuri  
  Senior Group Leader, Early-Stage Pharmaceutical and Processing Development, Roche

- **Should I mix for additional 5 min or not? Setting up the mixing parameters for protein drug manufacturing with computational fluid dynamics**
  Omar Naneh  
  Senior scientist BPD DPD Operational Sciences, Lek d d. (Novartis)

- **Current Status and Opportunities of Cell and Gene Therapies**
  Oimane Bouzid  
  Global Head Cell & Gene Therapy Technical Development, Novartis

- **CMC aspect of Oligonucleotide Therapeutics**
  Sonoko Kanai  
  Associate Director, AstraZeneca

- **Exploring the use of the more Advanced Approaches to DSc Analysis**
  Jonathan Armer  
  Scientist, F-Star

- **Solution Spotlight By Croda**
  Croda

- **Practical Lessons on Making QbD an Essential Step in Biologics Production**
  Leukocare

- **Oligonucleotides, the Small Large Molecules**
  Leukocare

- **Mesoporous Silica Particles; Simple yet Powerful Tool for the Delivery of Biomolecules**
  Dr Vivek Trived  
  Lecturer, Formulation Science Department of Pharmaceutical, Chemical and Environmental Sciences, University of Kent

- **Molecular Modelling Techniques to Aid Drug Stability Studies**
  Chemistry, Manufacturing and controls (CMC) strategies for Cell Therapies

- **Combination Treatment of Multidrug Resistant Tumours with Stimuli-Sensitive Nanocarriers Co-loaded with siRNA and Drugs**

- **Emerging Opportunities in Biologics Delivery**
Stream Highlights: Small Molecules

- New Modalities, Opportunities and Challenges
  Shalini Andersson, Chief Scientist New Therapeutic Modalities, AstraZeneca

- Drug Delivery Approaches for Small Molecule Sterile Injectables
  Richard Green, Senior Director, Pharmaceutical Sciences, Pfizer

- Multivariate Analysis in the Pharmaceutical Industry
  Mike Tobyn, Research Fellow, Bristol-Myers Squibb

- Solution Spotlight by BDD Pharma
  BDD pharma

- Solution Spotlight by tesa
  tesa Labtec

- Delivery to Market: Application of Multivariate Analysis to Production Processes
  Paolo Avalle, Associate Principal Scientist, MSD

- Application of Thermodynamic and Kinetic Modeling in ASD Development for Primary Packaging Assessment
  Kristin Lehmkemper, Senior Scientist, AbbVie

- Targeting Cancers with Nano Drug Delivery Systems
  Nano Drug Delivery Systems

- Process Material Compatibility Study Concepts
  Thomas Schmidt, Principal Scientist, Sandoz

- Solution Spotlight by Quotient Sciences
  Quotient Sciences

- Spray Flash Evaporation, a Disruptive Eco-efficient Process for the Continuous Engineering of Nano-pharmaceutics: From Laboratory to Industry
  Dr. HDR Denis Spitzer, Founding Director of the NS3E laboratory, Mixed Research Unit, UMR ISL/CNRS/UNISTRA

- Solution Spotlight by Foster Delivery Science
  Foster Delivery Science

- Accelerated Stability Testing of Excipients

- Solution Spotlight by MedPharm
  MedPharm

- Session Title TBC (Sanofi)
  Jean-René Authelin, Global Head of Pharmaceutical Engineering, Sanofi

- Local Delivery for Enteric Coated Drugs

- Solution Spotlight by PMC Isochem
  PMC Isochem

- Challenges and Opportunities of Development of Salts of Weak Bases

- Solution Spotlight by Beneo
  Beneo

- Challenges with Oxidation Sensitive Drug Substances

- Limitations and Problem Solving of Polysorbate

- Trojan Horse Formulations for Tumour Drug Delivery

- Injectable Drug Formulation Depots with Sustained Release
Clinically Relevant Drug Product Specifications
Andreas Abend, Director Analytical Sciences, Merck

3D Printing Case Study
Jean Alié, Head of Section at Sanofi Solid State Characterization and 3D printing, Sanofi

Solution Spotlight by LTS Lohman
LTS Lohman

Challenges and Opportunities in Combination Product Design, Development and Use

Solution Spotlight by Adare
Adare

Optimising Conventional Formulations for Continuous Manufacturing

Solution Spotlight by Adare
Adare

Enhancing Drug Formulation of Challenging Compounds Using Supercritical Fluid (SCF) Technologies

New Technologies in Non-Invasive Drug Delivery
Claus-Michael Lehr, Head of the Department Drug Delivery, Helmholtz Institute for Pharmaceutical Research Saarland

Nanotechnology Application in Drug Design and Delivery

Carbon Nanotube Composites for Drug Delivery

Solution Spotlight by DFE Pharma
DFE Pharma

Design, Translation and Development of Polymeric Nano-Medicines

Solution Spotlight by ShinEtsu
ShinEtsu

Overcoming Barriers of Acetylcholinesterase Inhibitors for Alzheimer’s Disease

Solution Spotlight by BASF
BASF

Bringing Drugs to Market Sooner

Solution Spotlight by Merck KGaA
Merck KGaA

CNS Drug Delivery and Barrier Modelling

Release Testing of Nanoformulations

Nanomedicines – Are We Ready for The Market?

Novel CART Cell Therapy Based Tumour Treatments
Stream Highlights: Device Development

- Topic TBC (Novartis)
  Muriel Didier, Head Human Factors, Novartis

- First-time-use Experience
  Rémy Kohler, Human Factors Engineer, Device and Packaging Development, PTDE-D, Roche

- Injectability Modelling for Arbitrary Drug Delivery Devices
  Nima Aghajari, Senior Simulation Engineer, Sanofi

- Implementing Human Factors Engineering and User-Centred Design: Practical Guidance for Combination Products

- Solution Spotlight by Datwyler
  Datwyler

- Microneedle Vaccine Delivery
  Anne Moore, Professor, University College Cork

- 3D Printing for the Fabrication of Transdermal Microneedles: In Vitro and In Vivo Evaluation
  Dennis Douroumis, Professor in Pharmaceutical Technology and Process Engineering, Director of Centre for Innovation in Process Engineering and Research (CIPER), University of Greenwich

- Improving Patient Experience through Digital and Combination Products Harmony

- Closed System Transfer Devices (CSTDs) Could Become Mandatory for Preparation and Administration of Biologics After USP<800> Becomes Mandatory
  Twinkle Christian, Principle Scientist, Drug Product Technologies department, Amgen

- Wearable Insulin Delivery Devices

- Solution Spotlight by Cambridge Design Partnership
  Cambridge Design Partnership

- Creating a Digital Ecosystem Beneficial to the Patient

- Ophthalmic Drug Delivery

- Innovating Medical Devices Cost Effectively

- Development of Inhalers That Guide Patient Technique

- How Will the Future Look for Next Generation Devices?

- Software Applications (Apps), the New Medical Devices?

- Combination Products: Design and Patient Experience

- Industry Effects of EU MDR and IVDR Regulations
Speakers

Anand Subramony
Vice President, R&D, (External Innovation & Novel Tech: Drug Delivery, Digital Devices, ADC, Nanomedicine)
AstraZeneca

Andreas Abend
Director Analytical Sciences
Merck

Anne Moore
Professor
University College Cork

Bertil Abrahamsson
Senior Principal Scientist
AstraZeneca

Birgit Steiner-Zitzenbacher
Vice President Innovation & Development Centre Europe
Fresenius Kabi

Brian K. Meyer
Principal Scientist New Technologies, Vaccine Drug Product Development, Bioprocess Research and Development
Merck

Claus-Michael Lehr
Head of the Department Drug Delivery
Helmholtz Institute for Pharmaceutical Research Saarland

Cornelia Kruettli
Section Head Product Care Device and Packaging Development
Roche

Daniel Bonner
Vice President
PureTech Health

Dr. HDR Denis Spitzer
Founding Director of the NS3E laboratory, Mixed Research Unit
UMR ISL/CNRS/UNISTRA

Dennis Douroumis
Professor in Pharmaceutical Technology and Process Engineering, Director of Centre for Innovation in Process Engineering and Research
University of Greenwich

Gregoire Schwach
Head Drug Delivery
Roche

Heinrich Haas
Vice President RNA Formulation & Drug Delivery
BioNTech RNA Pharmaceuticals

Jean Alié
Head of Section at Sanofi Solid State Characterization and 3D printing
Sanofi

Jean-René Authelin
Global Head of Pharmaceutical Engineering
Sanofi

Jonas Fransson
Director of Drug Product Development
Swedish Orphan Biovitrum AB

Jonathan Armer
Scientist
F-Star

Kristin Lehmkemper
Senior Scientist
AbbVie

Mike Tobyn
Research Fellow
Bristol-Myers Squibb

Mostafa Nakach
Head of formulation and process development Biologics Drug Product Development
Sanofi
Speakers continued

Muriel Didier  
Head Human Factors  
Novartis

Nima Aghajari  
Senior Simulation Engineer  
Sanofi

Omar Naneh  
Senior scientist BPD DPD Operational Sciences  
Lek d d. (Novartis)

Otmane Boussif  
Global Head Cell & Gene Therapy Technical Development  
Novartis

Paolo Avalle  
Associate Principal Scientist  
MSD

Pekka Kallunki  
Principal Scientist  
Lundbeck

René Holm  
Head and Scientific Director, Liquids & Parenterals  
QW

Richard Green  
Senior Director, Pharmaceutical Sciences  
Pfizer

Satya Kishore Ravuri  
Senior Group Leader, Early-Stage Pharmaceutical and Processing Development  
Roche

Serge Mathonet  
Global Regulatory Affairs Biologics Center CMC Interface  
Sanofi

Shalini Andersson  
Chief Scientist New Therapeutic Modalities  
AstraZeneca

Dr. Sharareh Salar-Behzadi  
Principal Scientist  
Research Center Pharmaceutical Engineering (RCPE)

Remy Kohler  
Human Factors Engineer, Device and Packaging Development, PTDE-D  
Roche

Sonoko Kanai  
Associate Director  
AstraZeneca

Stefan Wendland  
Global Head Design Development & Innovation IA/ Medical Devices  
Sanofi

Sudhkar Garad  
Global Head of Chemical and Pharmaceutical Profiling  
Novartis Institutes for BioMedical Research

Thomas Schmidt  
Principal Scientist  
Sandoz

Torsten Kneuss  
QA Manager Combination Products  
Bayer

Twinkle Christian  
Principal Scientist, Drug Product Technologies department  
Amgen

Dr Vivek Trivedi  
Lecturer, Formulation Science Department of Pharmaceutical, Chemical and Environmental Sciences  
University of Kent
Commercial Partners

If you’re interested in becoming an official partner for the DDF Summit, please contact

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  www.upperton.com

Zerion
www.zerion.eu
Who attends the DDF Summit?

The 2019 summit was the biggest to date with over 450 senior pharmaceutical development leaders joining us in Berlin for the 3 days. Here’s how they breakdown:

Common job functions:
- R&D
- Analytical Development
- Pharmaceutical Development
- Formulation Development
- Technical Development
- Device Development
- Process Development
- Drug Development
- CMC
- Human Factors
- Innovation
- Business Development

By company type:
- Pharmaceuticals: 58%
- Delivery / Formulation Services: 33%
- Universities: 9%

By seniority:
- Scientist/Specialist: 28.8%
- Manager: 23.3%
- Director: 20.2%
- Head: 18.1%
- VP: 6.1%
- C-Level: 3.4%

By country:
Top 10 countries:
1. Germany 25.1%
2. United Kingdom 14.9%
3. United States 12.1%
4. Switzerland 7.9%
5. France 6.5%
6. Denmark 5.4%
7. Italy 3.9%
8. Belgium 3.7%
9. Spain 2.8%
10. Austria 2.5%

Other countries represented:
- Netherlands
- South Korea
- Finland
- Japan
- Greece
- Ireland
- Czech Republic
- India
- Slovenia
- Sweden
- Poland
- Portugal
- Northern Ireland
- Norway
- Romania
- Taiwan
- China
- Hungary
- Ghana
- Croatia
- Kuwait
- Macedonia
- Jordan
How to register

Delegate registration is open to companies with a drug development pipeline or proprietary drugs in the market and academic / non-profit / government institutions.

If you work for a technology, service or solution provider then you can only attend as a commercial partner. Please go to the next page for more information.

A delegate ticket includes:

- Access to all presentations on all 3 days
- Access to exhibition hall
- Potential for 2 pre-arranged 1-2-1 meetings with suppliers most likely to solve your challenges
- A light breakfast, full buffet lunch and refreshments on all 3 days
- 2 evening drinks receptions with canapes
- A discounted room rate at the venue hotel
- Access to all presentations made available by speakers after the summit
- Opportunity to submit a poster to the poster competition
- Access to the official summit app

Prices:

Super Early Bird Price: £895 + VAT (until Friday 11th October)

Full Price: £1,495 + VAT

In order to maintain a comfortable and valuable networking experience, this year the summit will be limited to 500 attendees. This means there are only 250 delegate places available to purchase.

To register, please

Visit: www.ddfevent.com/book-now
Email: maxconferences@markallengroup.com
Call: +44 (0) 207 738 5454
Become a Commercial Partner

As an official DDF Summit commercial partner, you can benefit from:

- **3 days of varied networking opportunities** - providing you with ample time to meet and get to know the 300+ pharma development leaders in attendance

- **Speaking positions within targeted, highly technical streams** - guaranteeing you a relevant and engaged audience

- **Exposure** in the pre- and post-summit marketing campaigns

- The chance for your team to get up to speed with the **latest innovations** and **advances** in drug delivery and formulation

There are a variety of options available to meet your business needs:

- **Business Development Package** – a powerful injection of high quality leads into your pipeline

- **Thought Leadership Package** – Intrigue, challenge and inspire with your innovative ideas and solutions

- **Bespoke Package** – Tailored to suit your targets, goals and vision

Contact Alexandra for more information on the remaining opportunities.

Alexandra Krcho, Account Director
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Venue

**Maritim proArte Hotel Berlin**
Friedrichstrasse 151
10117 Berlin
Germany

+49 30 20 335
Website

Accommodation

This is not included in your delegate ticket. You will need to arrange your own accommodation. However, we have arranged a discounted rate for all attendees at the Maritim proArte – more information is available [here](#).

Contact us

If you’d like to speak to us about anything at all then please use the details below:

**General Enquiries:**
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