11th Global

DDF Summit
Drug Delivery & Formulation

9 - 11 March 2020 | Berlin

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

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

“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

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

Iulia Oita, Stability Manager, Ablynx

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

Giulio Cavalli, Process Scientist, Chiesi Ltd

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

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

David Churchley, Pharmaceutical Development Manager, ECO Animal Health

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

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

“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 and 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**  
Omuste Boussif, Global Head Cell & Gene Therapy Technical Development, Novartis

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

**Selecting Compound for Long Acting Injections and Available Technologies**  
Rene Holm, Head and Scientific Director, Liquids & Parenterals, Janssen

**Polysorbates for Biopharmaceuticals: An Unnecessarily Complex Mixture or Synergistic Blend?**  
James Humphrey, Applications Specialist, Croda

**Injection Pain with Biologicals**  
Jonas Fransson, Director of Drug Product Development, Swedish Orphan Biovitrum AB

**Solution Spotlight By LEUKOCARE**  
Leukocare

**Case Study by Boehringer Ingelheim**  
Patrick Garidel, Associate Director Protein Science, Boehringer Ingelheim

**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**

- **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

- **Targeting Small Molecules to Lymph: Methods and Applications**
  - Daniel Bonner, Vice President, PureTech Health

- **Reviewing our Internal CMC Innovation Set-up**
  - Gregoire Schwach, Head Drug Delivery, Roche

- **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-pharmaceuticals: 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

- **Case Study by Sanofi**
  - Jean-Rene 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**
Stream Highlights: Technology & Innovation

- Clinically Relevant Drug Product Specifications
  Andreas Abend, Director Analytical Sciences, Merck

- 3D Printing Case Study
  Jean Aili, 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

- 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

- Science-based Development of Formulation and Process for Enabling Formulations
  Johannes Khinast, Director Research Center Pharmaceutical Engineering, Graz University of Technology

- Carbon Nanotube Composites for Drug Delivery

- Continuous Manufacturing and Influence of Excipient Variation
  Mara van Haandel, Innovation Manager, DFE Pharma

- Design, Translation and Development of Polymeric Nano-Medicines

- Solution Spotlight by ShinEtsu
  ShinEtsu

- Overcoming Barriers of Acetylcholinesterase Inhibitors for Alzheimer’s Disease

- Digital Assistant to Support Drug Product Development
  Ferdinand Brandl, Head of Laboratory, BASF SE, Nutrition and Health, Development Pharma Solutions

- Bringing Drugs to Market Sooner

- Novel Screening Tools for Hot Melt Extrusion – Early Prediction of Formulation Performance
  Thomas Kipping, Head of Drug Carriers, Merck

- CNS Drug Delivery and Barrier Modelling

- Release Testing of Nanoformulations

- Nanomedicines – Are We Ready for The Market?

- Novel CART Cell Therapy Based Tumour Treatments

- Nanomedicine, Emerging Opportunities in Immunooncology
  Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca

- Leveraging New Therapeutic Modalities to Expand the Druggable Target Space
  Shalini Andersson, Chief Scientist New Therapeutic Modalities, AstraZeneca
Stream Highlights: Device Development

Case Study by 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
Mike Tate, Human Factors Manager, Boehringer Ingelheim

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 (CIFER), University of Greenwich

Improving Patient Experience through Digital and Combination Products Harmony

Drug Product Challenges with Closed System Transfer Devices
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

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
Serge Mathonet, Global Regulatory Affairs Biologics Center CMC Interface, Sanofi

Solution Spotlight By Crux
Speakers

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

Andreas Abend
Director Analytical Sciences
Merck

Andreas Seidl
Chief Operating Officer
LEUKOCARE

Anne Moore
Professor
University College Cork

Bertil Abrahamsson
Senior Principal Scientist
AstraZeneca

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

Charles Evans
VP of Pharmaceutical Development
MedPharm

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

Cornelia Kruetlli
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

Feng Zhang
Assistant Professor
University of Texas at Austin

Ferdinand Brandl
Head of Laboratory
BASF SE, Nutrition and Health Development Pharma Solutions

Gregoire Schwach
Head Drug Delivery
Roche

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

James Humphrey
Applications Specialist
Croda

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

Jean-René Authelin
Global Head of Pharmaceutical Engineering
Sanofi

Mike Tobyn
Research Fellow
Bristol-Myers Squibb

Paolo Avalle
Associate Principal Scientist
MSD

Johannes Khinast
Director Research Center Pharmaceutical Engineering
Graz University of Technology

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

Pekka Kallunki
Principal Scientist
Lundbeck

Jonas Fransson
Director of Drug Product Development
Swedish Orphan Biovitrum AB

Muriel Didier
Head Human Factors
Novartis

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

Kristin Lehmkemper
Senior Scientist
AbbVie

Nima Aghajari
Senior Simulation Engineer
Sanofi

René Holm
Head and Scientific Director, Liquids & Parenterals
QW

Mara van Haandel
Innovation Manager
DFE Pharma

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

Richard Green
Senior Director, Pharmaceutical Sciences
Pfizer

Mike Tate
Human Factors Manager
Boehringer Ingelheim

Otmane Boussif
Global Head Cell & Gene Therapy Technical Development
Novartis

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

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Global Regulatory Affairs Biologics Center  
CMC Interface  
Sanofi

Thomas Kipping  
Head of Drug Carriers  
Merck

Shalini Andersson  
Chief Scientist New Therapeutic Modalities  
AstraZeneca

Thomas Schmidt  
Principal Scientist  
Sandoz

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

Torsten Kneuss  
QA Manager Combination Products  
Bayer

Sonoko Kanai  
Associate Director  
AstraZeneca

Twinkle Christian  
Principal Scientist, Drug Product Technologies department  
Amgen

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

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

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

Yash Kapoor  
Principal Scientist  
MSD
Commercial Partners

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

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Datwyler Pharma Packaging International
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MedPharm
www.medpharm.com

PMC Isochem
www.pmcisochem.fr

Sonceboz
www.medical.sonceboz.com
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:

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

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

**By country:**
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
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Germany

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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:

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