

AI & BIG DATA IN LIFE SCIENCE

EXPERIENCES FROM

**NOVO NORDISK * NOVARTIS * IMMUNITRACK
DANISH MEDICINES AGENCY * GN HEARING
THE DANISH ASSOCIATION OF THE PHARMA-
CEUTICAL INDUSTRY * DANISH HEALTH DATA
AUTHORITY * ROCHE * RAIT**

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MedWatch reports on the pharmaceutical and medtech industry in Denmark, which are important areas beyond the domestic commercial sector and play a vital role for public health and society in general. MedWatch delivers independent, critical and fair journalism and focuses on core substance.

ITwatch

ITWatch closely follows Danish IT and telecommunication players, focusing on the businesses behind the products. We cover strategy, management, results, competition, policy, orders, acquisitions, innovation, careers, job moves and much more. ITWatch delivers independent, critical and fair journalism about the large, leading firms – but also the sub-canopy of small and medium-sized businesses that form the

Bech·Bruun

Bech-Bruun is a market-oriented law firm offering a wide range of specialist advisory services to large sections of the Danish corporate and public sectors as well as global enterprises. Counting more than 500 experienced and highly specialised employees, of which 69 are partners, we are one of Denmark's leading full-service law firms.

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KPMG is a global network of professional services firms providing Audit, Advisory and Tax services. KPMG member firms operate in 145 countries, collectively employing more than 236,000 people around the world. We work closely with a broad range of clients, serving the needs of business corporations, governments and public-sector agencies and not-for-profit organisations. We support them in mitigating risks and exploiting business opportunities.

KPMG in Denmark is the fastest growing professional services firm in Denmark, with a revenue of more than DKK 1,112 million in FY21. With more than 1000 employees and partners working at our headquarters in Copenhagen and in our regional offices in Odense, Hellerup, Fredericia, Aarhus and Aalborg, we serve clients all over Denmark and help them realise their potential. By combining deep local insights and strong global perspectives, we create long-term value by responsible use of technology with humans at the centre.

LIST OF SPEAKERS

Moderator:

Martin Dræbye Gantzhorn,
Partner,
Bech-Bruun

- * **Thomas Klit Christensen,**
Legal Chief Officer & Head of Foreign Trade Policy,
The Danish Association of the Pharmaceutical Industry
- * **Kenneth Bøgelund Ahrensberg,**
Chief Consultant,
Danish Health Data Authority
- * **Rolf Oberlin Hansen,**
Special adviser,
Danish Medicines Agency
- * **Orla Doyle,**
Director Data Science, Analytics,
Global Drug Development,
Novartis
- * **Stephan Thorgrimsen,**
CEO,
Immunitrack
- * **Casper Guldager,**
Management Consultant,
KPMG
- * **Trine Julie Abrahamsen,**
Director of Digital Data Science,
Novo Nordisk A/S
- * **Josefine Vilsbøll Sundgaard,**
PostDoc,
Novo Nordisk A/S
- * **Anthea Bott,**
Manager, RDC Insights and Machine Learning,
GN Hearing

- * **Bjørn Høj,**
Entrepreneur in Residence, VentureWorks,
GN Hearing
- * **Anja Lundgreen,**
Principal Standards Specialist,
Novo Nordisk A/S
- * **Hemanth Padmakar,**
Principal Data Management Specialist,
Novo Nordisk A/S
- * **Mikael Boesen,**
Professor, MD, Ph.D,
Consultant Radiologist *Bispebjerg Hospital*
Founder,
RAIT
- * **Darine Ghanem,**
Doctor of Pharmacy (Pharm.D.),
General Manager,
Roche Pharmaceuticals Denmark & Iceland

PROGRAM

09:00-09:05 WELCOME

Martin Dræbye Gantzhorn, Partner, *Bech-Bruun*

09.05-09.30 INDUSTRI PERSPECTIVES ON EUROPEAN HEALTH DATA SPACE

Thomas Klit Christensen, Legal Chief Officer & Head of Foreign Trade Policy, *The Danish Association of the Pharmaceutical Industry*

09.30-10.00 EHDS TOWARDS STRONGER EUROPEAN COLLABORATION.

The EHDS poses new requirements on how we support coherent treatment across the healthcare service adding a cross-border dimension to what we do. Apart from that the EHDS promises new opportunities to the work with big data and AI. The way towards a fully implemented regulation requires a lot but the perspectives are promising.

Kenneth Bøgelund Ahrensberg, Chief Consultant, *Danish Health Data Authority*

10:00-10:05 SHORT BREAK

10:15-10:50 WE ARE NOT WAITING!

The CLIC project is developing and testing a platform that will enable clinicians and researchers to use Danish clinical images and health data to develop, test and validate image based AI solutions in collaboration with the private sector. The Radiological AI test Center - RAIT - at Bispebjerg and Herlev and Roche Denmark are key partners in the CLIC project. Learn more about the visionary ambitions of the CLIC project, how the outcomes of CLIC potentially can be scaled up in Denmark and beyond, and how CLIC is a result of a successful public-private partnership.

Mikael Boesen, Professor, MD, Ph.D, Consultant Radiologist, *Bispebjerg Hospital*, Founder, *RAIT*

Darine Ghanem, Doctor of Pharmacy (Pharm.D.), General Manager, *Roche Pharmaceuticals Denmark & Iceland*

10:50-11:00 NETWORKING BREAK

11:00-11:30 FACILITATING HARMONIZATION AND CORRECT LEVELS OF REGULATION FOR AI

The Danish Medicines Agency's Section for Medical Devices are working actively and internationally to ensure that Artificial Intelligence can be utilized to its' full potential. The field requires special attention and clear lines of regulation to ensure patient safety, but also uptake in the healthcare sector and global harmonization to enable a broad market.

Hear about the regulators' thoughts, collaborations, current headaches and challenges, as well as what can be expected for the future of AI in medical devices.

Rolf Oberlin Hansen, Special adviser, *Danish Medicines Agency*

11:30-12:00 GRASSROOTS APPLICATIONS OF DATA SCIENCE

Data science holds great promise across the life sciences industry with many applications gravitating towards predicting the outcome for an individual. In this talk, I will focus on more grassroots applications of data science that could have more immediate impact in our work. Firstly, I will discuss how interpretable data science can help identify data quality issues which can be difficult to capture purely through rules-based approaches. Secondly, I will focus on using data science to guide complex decision making within drug development by estimating the probability of success if a medicine was to transition from one stage of development to the next.

Orla Doyle, Director Data Science, Analytics, Global Drug Development, *Novartis*

12:00-13:00 LUNCH AND TIME TO NETWORK

13:00-13:30 COMBINING AI WITH PROPRIETARY DATA-GENERATION FOR STRATIFICATION OF CANCER PATIENTS

Cancer immunotherapy by Immune checkpoint blockade has revolutionized the way we can treat and cure cancer patients. The benefit of such treatment is however limited by poor biomarker solutions. Using AI with proprietary data generation, Immunitrack seeks to profile patients with unmet accuracy. We will present our current development strategy, and how we believe our solution will make a difference.

Stephan Thorgrimsen, PhD, MBA, CEO *Immunitrack*

13:30-14:00 FROM MODEL TO PRODUCTION

Casper Guldager, Management Consultant, *KPMG*

14:00-14:15 NETWORKING BREAK

14:15-14:45 USING AI TO LEARN FROM BIOMEDICAL IMAGES AT NOVO NORDISK

In this session, we will provide an introduction to how we at Novo Nordisk use AI to analyse biomedical images. We will give a brief introduction and present examples of how AI enable insights in disease risk and progression biomarkers.

Trine Julie Abrahamsen, Director of Digital Data Science, *Novo Nordisk A/S*

Josefine Vilsbøll Sundgaard, PostDoc, *Novo Nordisk A/S*

PROGRAM

14:45-15:15 **MARKETING MACHINE LEARNING PRODUCTS IN THE HEARING AID INDUSTRY**

In this presentation, Bjørn Høj and Anthea Bott will share their learnings on the importance of R&D collaborating with marketing to drive successful machine learning features within the hearing aid industry.

Anthea Bott, Manager, RDC Insights and Machine Learning, *GN Hearing*

Bjørn Høj, Entrepreneur in Residence, Venture-Works, *GN Hearing*

15:15-15:25 **NETWORKING BREAK**

15:25-16:00 **AUTOMATED TEST DATA FOR FRONTLOADING IN CLINICAL STUDIES**

To support system setup, data flow, frontloading on data structure issues, data mapping, transformations and analysis, Novo Nordisk together with Damvad Analytics decided to try to create a test data solution, that was automated and could solve some or all of the challenges mentioned above. This solution was named 'Kassandra'.

Kassandra is a python-based algorithm that generates test data for trials. It injects data into InForm (EDC) and also generates test data for external laboratory data systems. It automatically reads trial specifications, generates patients, populates forms and injects data. It is a unified user-friendly solution which covers most common use cases. We can easily modify test data for special purposes using a configuration file. Kassandra is maintainable and extendable to support the many new needs, the test data must support now and in the future.

Anja Lundgreen, Principal Standards Specialist, *Novo Nordisk A/S*

Hemanth Padmakar, Principal Data Management Specialist, *Novo Nordisk A/S*

16.00-16.10 **CLOSING REMARKS**

Martin Dræbye Gantzhorn, Partner, *Bech-Bruun*

PRISER & PRAKTIK

REGISTRATION FEE

REGISTRATION	Early bird by 28 October 2022	Regular fee after 28 October 2022
	DKK 5.495,- (+ VAT)	DKK 5.995,- (+ VAT)

Registration fee includes conference delegate material, refreshments and lunch. Accommodation is **not** included.

3-at-2 discount - 3 delegates from the same company, that register at the same time, pay the price of 2

Members of The Danish Chamber of Commerce get a member discount – please inform us about your membership when registering.

Discounts can not be combined.

WHERE

Charlottehaven, Hjørtinggade 12C, 2100 København Ø, telefon +45 3527 1500

WHEN

Tuesday 29 November 2022

REGISTRATION

Registration at info@relevent.dk – please contact +45 2830 5445 or +45 4195 1429 with any questions.

Cancellations must be given in writing to info@relevent.dk and will be subject to a fee.

Cancellation fee before 15 NOVEMBER 2022 - 10% of registration fee.

Cancellation fee before 22 NOVEMBER 2022 - 50% of registration fee.

Cancellation fee from 25 NOVEMBER 2022 – no refund, thus 100% of registration fee.

To avoid cancellation fees – you may transfer your registration to a colleague.

Please inform Relevent prior to the conference in writing to info@relevent.dk