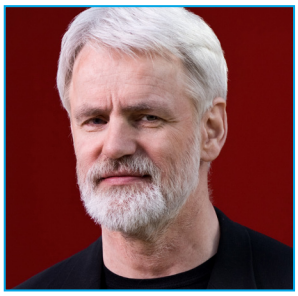
Nordic Precision Medicine Forum

18-19 March 2019, Stockholm

TOP 6 REASONS TO ATTEND

1. **A once a year Opportunity:** There is no other annual forum which provides the depth of information related to precision medicine
2. **Network and Connect:** Meet and exchange ideas with like-minded professionals who are shaping the future of healthcare
3. **Learn and educate:** Hear about the latest research, techniques, processes, regulation and technologies
4. **Get Inspired:** Our speakers and attendees are inspirational in their passion to make a long term positive impact for patients
5. **Value for Money:** The only forum where you will meet all of the key players in precision medicine in one place
6. **Collaborate, Collaborate, Collaborate:** It's why we plan the forum, and what many argue is critical for precision medicine to become an everyday reality

Speakers include:



Dr Kári Stefánsson
President, Chairman, CEO and Co-Founder, **deCODE Genetics**

Dr Mathias Uhlén
Professor of Microbiology, **KTH Royal Institute of Technology**

Richard Rosenquist Brandell
Professor of Clinical Genetics, Department of Molecular Medicine and Surgery, **Karolinska Institutet**, Senior Physician, Clinical Genetics, **Karolinska University Hospital**, & Project Leader, **Genomics Medicine Sweden**

Erik Jylling
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DAY 1 Programme - Monday 18 March, 2019

12:15
Registration and Networking Lunch

13:00
Welcome and Opening Remarks from the Chair

13:10 - 13:35
Keynote Address: Advancing Personalised Medicine Across Europe: Priorities & Opportunities

Irene Norstedt, Head of the Innovative and Personalised Medicine Unit, DG Research and Innovation**, European Commission**

13:35 - 15:15
Exploring the Future Direction of Precision Medicine: What We Hope to Achieve and Required Next Steps

A panel of expert speakers from across the Nordic region will share their views on what has been achieved to date in the implementation of precision medicine; where they believe it is heading in the next 5 years; and where the focus needs to be in order to achieve key aims and objectives.

The presentations will be followed by an in-depth Q&A discussion; delegates are invited to ask questions and share their own views.

Dr Kári Stefánsson, President, Chairman, CEO and Co-Founder**, deCODE Genetics**

Professor Dag Erik Undlien, Department of Medical Genetics**, Oslo University Hospital**

15:15 - 15:45
Refreshments and Networking

15:45
Interactive Break-Out Sessions

These focused, interactive sessions give you the opportunity to discuss a key topic of interest to you in a more participative format. Each session will be led by a facilitator who will lead the discussion and encourage maximum debate and sharing of ideas.

A. Functional Precision Cancer Medicine - Moving Beyond Genomics

Professor Dr Janne Lehtiö, Professor, Karolinska Institutet & Scientific Director**, SciLifeLab**

Päivi Östling, Associate Professor, Co-Principal Investigator, Kallioniemi Research Group**, SciLifeLab**

B. AI in Precision Medicine: The Hype vs Reality

C. Innovative Approaches to Clinical Trial Design

D. Pharmacogenetics in Clinical Practice: Hurdles to Overcome & Challenges to Solve

In this workshop, challenges encountered in clinical practice in the implementation of pharmacogenetics will be discussed, such as the degree of quality control needed, ethical aspects, legal issues, SNPs to analyse, pros & cons of specific DNA genotyping approaches, how to report, who to inform on the outcome of test results, insurance company aspects, the role of the GP and specialist, role of the pharmacist, patient empowerment and how to deal with new insights in the field.

Prof. Dr. Ron HN van Schaik, Professor of Pharmacogenetics**, Erasmus University Medical Center**

E. Polygenic Risk Profiling for Complex Disease

Professor Mark McCarthy, Professor of Diabetic Medicine, Nuffield Dept of Medicine & Group Head**, Wellcome Trust Centre for Human Genetics,University of Oxford**

F. Optimising the Use of Liquid Biopsy as a Precision Diagnostic Tool

(This list is not definitive at this stage. Additional topics will be added in due course. If you would be interested in facilitating a workshop, or have ideas for topics, please contact us.)

17:15
Closing remarks from the Chair

17:30
Complimentary Networking Drinks Reception

DAY 2 Programme - Tuesday 19 March, 2019

08:30
Welcome Refreshments and Networking

09:00
Opening Remarks from the Chair

09:10
Examining the Influence of Current Regulatory Frameworks in Facilitating the Progress & Implementation of Precision Medicine

- Identifying the current legal, regulatory and ethical obstacles restricting the advancement of precision medicine
- Exploring ways in which regulatory frameworks need to adapt to overcome these obstacles, and enable innovation and delivery
- Examining how the disease and drug classification system could change to enable a broader, biological approach
- Outlining the regulatory and ethical perspective with regards to data access and sharing and the use of AI in precision medicine

Liisa-Maria Voipio-Pulkki, Director General & Chief Medical Officer**, Ministry of Social Affairs and Health, Finland**

Isabelle Budin Ljøsne, Senior Advisor**, Norwegian Institute of Public Health**

Dr Steffen Thirstrup, Director, NDA Regulatory Advisory Board, NDA Advisory Services & Professor, Faculty of Health Sciences, **University of Copenhagen**

10:10
Q & A Discussion

10:30
Morning Refreshments & Networking

The programme will now split into 2 tracks. Delegates are invited to choose the track they would like to attend.

TRACK ONE
Leveraging the Power of "Big Data" and Technology in Precision Medicine

One of the biggest challenges to advancing precision medicine is managing the huge volumes of data being created. Appropriate bioinformatic methods for managing, integrating, sharing and analysing complex biological data are required to enable reinforcement of commonalities, reduction of "noise" and identification of the right clinical result.

11:00
Data Integration: Examining Statistical Methods for the Exploration and Integration of Heterogeneous Biological Data Sets

- Identifying trends or patterns in one single data set (methods around Principal Component Analysis)
- Extracting common information from two or more biological/ omics datasets acquired on the same samples or patients (PLS related methods)
- Classifying samples or patients based on one or more biological/ omics datasets (supervised analysis, PLS-DA)
- Selecting the most relevant variables involved in the relationships between several datasets (sparse variant or previous methods)
- Developing novel methods for multi-omics data integration to extract biologically relevant information (new developments around kernel methods)

Sébastien Déjean, Research Engineer, Institut de Mathématiques de Toulouse**, University of Toulouse III - Paul Sabatier**

TRACK TWO
Biomarker Development & Diagnostics

Validated, predictive biomarkers are key to the further advancement of precision medicine, and the bridge between research and clinical practice. However almost 90% of biomarkers identified cannot be used as they have not been validated in clinical trials. This session will look at the future development of biomarkers, how their use in clinical practice can be facilitated, as well as new diagnostic techniques for disease prediction and prognosis.

11:00
Exploring Measures to Enhance & Accelerate Biomarker Discovery & Validation Processes to Improve their Effective Transition into Clinical Use

Tobias Sjöblom, Professor, Department of Immunology, Genetics and Pathology, Uppsala University & Director, Research Infrastructure, **Biobank Sweden**

11:20
Data Sharing: Overcoming the Legal, Technical and Human Obstacles to Data Sharing

- Understanding actual vs perceived barriers to the sharing of genomic and health data:
- working with relevant stakeholders to influence and overcome these barriers
- Examining the extent to which the introduction of GDPR has impacted on the accessing and sharing of healthcare data, and how this can be managed
- Managing patient privacy concerns regarding healthcare data sharing:
- finding and communicating the balance between patient protection vs scientific discovery
- Effectively linking health-data registers to establish a research database and facilitate shared decision-making
- Exploring the use and potential of blockchain-based data sharing and access

Erik Steinfelder, Director General**, BBMRI-ERIC**

11:40
Applying Artificial Intelligence to Biomedical Data: Challenges & Solutions

- Exploring how AI and machine learning can facilitate the development of complex, digital biomarkers for the objective assessment of disease progression
- Using the potential of AI to overcome traditional bottle-necks in new drug discovery and development

Behrooz Torabi Moghadam, Department of Immunology, Genetics and Pathology, Uppsala University & Co-Founder & CEO**, Denapsis Artificial Intelligence**

12:00
Health-Tech: Using the Latest Mobile, Smart & Cloud Technologies to Obtain New Patient Data & Insights

- Exploring innovations in companion apps and self-diagnostic tools for patient use
- Providing patients with online tools to better understand and use their genetic information
- Assessing the implications for healthcare systems of patient self-management technologies
- Effectively managing increasing patient empowerment

12:20
Q & A Discussion

12:45 - 13:45
Networking Lunch

11:20
Developing Pharmacogenomic Biomarkers for Personalised Drug Therapy

Pharmacogenetics: A DNA passport for medication for every person?

DNA analysis to guide drug treatment is gaining in interest and clinical use. But how far are we today from using pharmacogenetics information in daily practice? This presentation will consider the following questions: What can we do now? What are the limitations? What are the current challenges? What is the next step in personalized medicine with respect to using our DNA information?

Prof. Dr. Ron HN van Schaik, Professor of Pharmacogenetics**, Erasmus University Medical Center**

11:40
Examining the Development and Use of Polygenic Risk Scoring

- Exploring the benefits of using polygenic risk scoring for multi-factorial complex diseases
- Assessing the potential of polygenic risk scoring as a clinical tool for risk prediction or prognosis:
- identifying the challenges to be overcome and further research required
- likely timescales for adoption into clinical practice

Lili Milani, Professor & Head of Personalized Medicine, Estonian Genome Centre**, University of Tartu**

12:00
Exploring How Recent Advances in Genomics are Transforming Drug Research and Development for Precision Medicine

Carolina Haefliger, VP Head, CVMD Precision Medicine Unit & Head, Companion Diagnostics Unit Cardiovascular and Metabolism**, AstraZeneca**

12:20
Q & A Discussion

12:45 - 13:45
Networking Lunch

WELCOME BACK
The afternoon session will continue in 2 tracks.
Delegates are again invited to choose which of the tracks they would like to attend

TRACK THREE

Advancing Precision Medicine Through Partnerships, Collaboration & Funding Initiatives

The effective implementation of precision medicine needs collaborative approaches, both national and cross-border. Identifying stakeholders, bringing them together, and finding appropriate financial mechanisms are all key elements for success. Examples of innovative collaborative projects for advancing precision medicine will be presented here.

TRACK FOUR

Advancing Precision Medicine Through Multi-Omics Strategies

Genomics studies still contribute the vast majority of precision medicine-based data. However, it is being increasingly recognised that it is not enough to just look at DNA, and instead it is necessary to understand the whole-body narrative. Taking a system biology approach and examining multiple -omics, using information from the genome, proteome, metabolome and transcriptome to identify critical drivers and pathways of disease is being increasingly used to develop personalised medicine strategies.

13:45
Accelerating new breakthroughs in disease prevention, diagnosis, and treatment through exceptional public-private collaboration: The FinnGen project

Anu Jalanko, Research Manager, National Institute for Health and Welfare (THL), Helsinki and FinnGen Project Manager**, Institute for Molecular Medicine Finland (FIMM)**

14:05
Open Targets: An innovative, large-scale, multi-year, public-private collaboration to transform drug discovery and more effectively target disease

Ian Dunham, Scientific Director, Open Targets**, The European Bioinformatics Institute (EMBL-EBI)**

14.25
The AZ BioVentureHub: Realising the Potential of Nordic Life Sciences Through Innovative Collaboration

Dr Magnus R. Björsne, Chief Executive Officer**, AstraZeneca BioVentureHub**

14:45
Q & A Discussion

13:45
Developing Integrated Proteomic and Genomic Strategies for Biomarker Discovery & Validation

Anders Mälarstig, Researcher, Karolinska Institutet & Director Target Science & Technologies**, Pfizer Worldwide Research & Development**

14.05
Proteomics: Exploring how Protein Biomarker-Based Strategies can Influence & Drive a Precision Medicine Approach

Dr Mathias Uhlén, Professor of Microbiology**, KTH Royal Institute of Technology**

14.20
Metabolomics-Based Methods for Early Disease Diagnostics

Professor Matej Oresic, Group Leader in Systems Medicine, Turku Centre for Biotechnology, University of Turku & Visiting Associate Professor, School of Medical Sciences**,Örebro University**

14.35
Using an Integrated Multi-Omics Approach to Enable Detailed Molecular Characterisation

Professor Zsolt Illés, Department of Neurology**, Odense University Hospital (OUH) & Institute of Clinical Research, University of Southern Denmark (SDU)**

14.50
Q & A Discussion

15:00
Afternoon Refreshments & Networking

A Final Plenary Session will Conclude the Afternoon

Making It A Reality: Effectively Translating Precision Medicine Research Into Clinical Practice

15:25
Translating Genomic Data into Actionable Insights that can be Used in Clinics

- Optimising national quality registers to create a decision-making support framework based on genomic data
- Integrating technology with existing healthcare databases to give better patient knowledge and insight
- Exploring how we can turn broad genomic profiling into information that can be used quickly and easily for patients' benefit in clinics

Richard Rosenquist Brandell, Professor of Clinical Genetics, Department of Molecular Medicine and Surgery, Karolinska Institutet, Senior Physician, Clinical Genetics,Karolinska University Hospital, & Project Leader**, Genomics Medicine Sweden**

15:45
Physician's Perspective: Using Precision Medicine Research in Practice for Patients' Benefit

- Detailing how we use the data currently available to us
- Outlining what we would like from research and the information that is most beneficial to us in consulting with, and treating, patients
- Effectively communicating new advances in research, trials or drug testing – what information and evidence we need to be convinced of their value

Andreas S. Pahle, Board Member, Norwegian College of General Practice & Head of the Digital Health and Personalised Medicine Group & General Practitioner**, Bolteløkka Medical Centre**

Presentation co-authored by Henrik Vogt, Centre for Medical Ethics,Institute of Health and Society**, University of Oslo,** General Practice Research Unit, Dept of Public Health**, Norwegian University of Science & Technology &** General Practitioner**, Ullevål Hageby Health Center, Oslo**

16:05
Patient Perspective: Patients as a Driving-Force to Advance Precision Medicine

Dr Bettina Ryll,ESMO Patient Advocates Working Group & Founder**, Melanoma Patient Network Europe**

16:25
Managing the Implications of Precision Medicine Advancement for Healthcare Professionals

- Assessing the infrastructure, data and technology changes required to current healthcare systems in order to deliver a precision medicine approach
- Examining the impact on the healthcare professional (HCP) and their role:
- how do HCPs need to adapt to deliver the healthcare of the future?
- effectively managing increasing patient empowerment
- Communicating and convincing HCPs of the validity and potential of new personalised treatments and therapies
- Developing and implementing precision medicine training programmes for healthcare professionals

Erik Jylling, Executive Vice President**, Danish Regions**

16:45
Panel & Audience Discussion: Best Practice Strategies for Advancing Precision Medicine in Clinical Practice

This final Q&A discussion session will look at the challenges discussed previously around translating academic and laboratory research into clinical practice and give delegates the opportunity to share their own thoughts and experiences on what is needed to make precision medicine a reality. Is it down to changes in regulation and healthcare systems, or do we need to create a more open dialogue between academia, clinicians and patients to create better flexibility, foster innovation and deliver progress.

17:00
Closing Remarks from the Chair and Close of Conference

Choose Your Delegate Package:

Conference Rate:
Standard Rate:
€800

Academia/Healthcare:
€460

Fee includes:
- Conference Pass
- Delegate Programme
- Buffet lunch, snacks and refreshments throughout the conference
- Complimentary Networking Drinks Reception

How to Register:

1. Online through our secure portal: Register and pay online **www.precisionmedicineforum.com** (you will need your payment card to complete registration)
2. Complete the registration form **www.precisionmedicineforum.com** and we will send an invoice (please note your place is not confirmed until full payment is received)
3. Phone: +44 (0)1273 931616
4. Email: **register@precisionmedicineforum.com**

Venue:

Hotel Birger Jarl
Tulegatan 8
Stockholm
Sweden

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