



MAX-PLANCK-GESELLSCHAFT

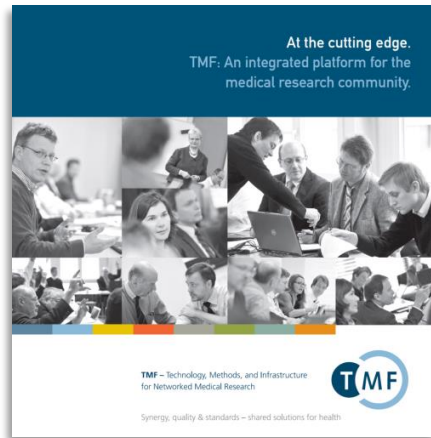


Genomic Medicine in Europe – Blueprints for Germany

May 27, 2019

Max Planck Institute for Molecular Genetics, Berlin

TMF



- non-profit umbrella organization for networked medical research
- established by the BMBF in 1999
- registered association as of 2003 (65 members)
- funded by three federal ministries (BMBF, BMG, BMWT) and several other bodies (e.g. DFG, EU)

- German Centers for Health Research
- several Medical Faculties
- The National Cohort
- Networks for Rare Diseases
- Coordinating Centers for Clinical Trials
- German Biobank Node
- ... and many more



<http://www.tmf-ev.de>

TMF

Goal: Jointly Solve Researcher-identified Problems!

- IT infrastructure for clinical research (tools, audits)
- research methodology (harmonized SOPs, checklists)
- biobanking (quality management, IT, logistics, sustainability)
- ELSI frameworks (data protection concepts, consent blueprints)
- lobbying (politics, society, funding bodies)

TMF Working Groups

- IT Infrastructure and Quality Management
- Data Protection
- Biobanking
- Management of Clinical Studies
- **Medical Bioinformatics and Systems Medicine**
- Science Communication
- Data Quality (Summer 2019)

TMF Workshop

Omics in Medical Research 2nd edition

The workshop will address important topics from omics-based medical research, with a sideways glance at their potential relevance to clinical care. Presentations will highlight the role of omics in cardiovascular disease and oncology in particular, and will also address the emerging use of artificial intelligence in the clinic.

As a special focus, the workshop will take a look at the role of Germany in current international efforts to establish omics-based medical research as a driver of 'next generation medicine' (e.g. Human Cell Atlas, ICGC-ARGO, GA4GH). Distinguished speakers will present the visions underlying these initiatives and examine Germany's readiness to meet the challenges of future medicine.

Since all the above efforts depend upon access to, and use of, high-quality clinical data, the workshop will also explore how systems medicine and bioinformatics may benefit from the 'Medical Informatics Initiative', a recent national funding program by BMBF. More specifically, the workshop will contour the links required between clinical data standards (HL7, LOINC etc.) and the omics world.

The workshop will also address the prerequisites to integrate and responsibly share large amounts of sensitive medical data for research. Since international cooperation is paramount for the translation of basic research into clinical practice, special attention will be paid to the legal framework of collaborative research in genetics and genomics.

Of note, the day after the workshop, the 7th National Biobanking Symposium will take place at the same venue and open under the headline "Fit for purpose – Omics and novel medical models and materials", pinpointing the great demand for high-quality human biomaterial for omics-based research.

Further information:

- Workshop flyer, 2017

www.biobanken.de

- Workshop summary, 2017

www.tmf-ev.de

TMF – Infrastructures for Medical Research

TMF is the umbrella organisation for networked medical research in Germany. It is a platform for interdisciplinary exchange, cross-project and multi-site collaboration – with the aim of identifying and resolving the organisational, legal/ethical and technological issues encountered in today's medical research. It makes a number of resources available free of charge to the general public – such as expert opinions, generic concepts, software applications, checklists, practical guides, training, and consulting services.

www.tmf-ev.de

TMF – Technologie- und Methodenplattform
für die vernetzte medizinische Forschung e.V.

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TMF – Technology, Methods, and Infrastructure
for Networked Medical Research



TMF Workshop

Omics in Medical Research 2nd edition

December 10, 2018 | Berlin





Medizinische Genomsequenzierung: Warum Deutschland nicht länger abseits stehen darf

Hans-Hilger Ropers

Genome Medicine

A Driver for Research and Care

- Whole genome sequencing (WGS) greatly facilitates the diagnosis, therapy and prognosis of, as well as research into, genetic diseases.
- Immediate clinical benefit from WGS arises in
 - *treatment of cancer*
 - *diagnosis of rare diseases (total prevalence: 5%)*
- Pilot projects are helpful, but do not obviate the long-term establishment of WGS as a standard diagnostic tool.
- Implementation of WGS as a link between medical research and care is ongoing in many countries (e.g. US, Canada, Australia, China, UK, Netherlands, France, Sweden).

Genome Medicine

Quo vadis, Germany?

- Genome Medicine plays a less prominent role in Germany, with fewer public investments (e.g. infrastructure, research) made than elsewhere.
- Instead of “re-inventing the wheel”, a German Genome Medicine initiative should draw upon the experience of others.
- National (and local) implementation processes must take relevant legal, ethical and organizational peculiarities into account.
- In the interest of patients, researchers and society, rapid action is required.

Programme

11.00 **Welcome**
Michael Krawczak | TMF Berlin, UKSH Campus Kiel

11.10 **Genomic Medicine in the UK**
Tim Hubbard | King's College London, Genomics
England

11.55 **France Médecine Génomique**
Franck Lethimonnier | Inserm, Paris

12.25 **Genomics Stockholm / Sweden**
Valtteri Wirta | Karolinska Institutet, Stockholm

12.55 **Lunch break**

13.55 **Nijmegen - The Netherlands**
Han Brunner | Radboud UMC+, Nijmegen

14.35 **Economic burden of undiagnosed rare
diseases**
Julia Wilkins | Imperial College Health Partners
London

15.15 **Refreshments**

15.45 **Wrap up**
Hans-Hilger Ropers | MPIMG Berlin

16.00 **Panel discussion: Genomic Medicine in
Germany – the way forward**
Michael Krawczak | TMF Berlin, UKSH Kiel

Panelists:

Saskia Biskup | Praxis für Humangenetik Tübingen;
CeGaT GmbH
Jutta Gärtner | University Hospital Göttingen
Annette Grüters-Kieslich | University Hospital Heidelberg
Christof von Kalle | DKFZ Heidelberg;
Sidra Medicine Katar
Olaf Rieß | University Hospital Tübingen
Jürgen Schäfer | University Hospital Marburg
Gerhard Schillinger | AOK-Bundesverband GbR

Experts in the first row:

Tim Hubbard, Franck Lethimonnier, Valtteri Wirta, Han
Brunner, Julia Wilkins, Hans-Hilger Ropers

17.30 **Resumé – Next Steps – Closing Remarks**
Michael Krawczak | TMF Berlin, UKSH Campus Kiel

18.00 **Networking**

Organisational Issues

Date:

May 27, 2019, 11.00 – 18:00 (11 am to 6 pm)

Venue:

Max-Planck-Institute for Molecular Genetics
Innestrasse 63-73
14195 Berlin, Germany

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Registration:

Please register online at www.tmf-ev.de/anmelden.

Scientific Organisation:

Michael Krawczak | TMF Berlin, UKSH Campus Kiel
Roman Siddiqui | TMF Berlin
Hans-Hilger Ropers | MPIMG Berlin

