

B2B 9TH BIOINFORMATICS

STRATEGY MEETING EUROPE 2019

Crowne Plaza London Docklands
Thursday 21ST March, 2019



BIOINFORMATICS

COVER

AGENDA-AT-A-GLANCE ▶

Big Data/Data Management
Next Generation Sequencing
Data Integration/Mining
Artificial Intelligence & Machine Learning
Clinical Research & Translational Informatics

PAST PARTICIPANTS

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OUR FORMAT



OUR UNIQUE MEETING FORMAT

● Roundtable Discussions

These interactive and informal discussion groups are the hallmark of the meeting. Small exclusive groups of Leaders who face shared challenges and strategic priorities are brought together in 60-minute sessions that enable participants to share ideas and lessons learned. Facilitated by experienced professionals, these sessions provide a valuable dialogue with peers on current challenges and topical issues. Each discussion group has limited numbers which ensures each delegate is given ample opportunity to raise questions and contribute to the discussion.

● Personalised Agenda

Each delegate receives a personalised agenda combining industry-leading keynote presentations, topical roundtable discussions, networking and business meetings. You only attend sessions and meetings that fit your challenges and interests, ensuring your time out of the office is focused and well-utilised.

● One-to-one Meetings

The most effective and time efficient way to assess potential partners at a strategic level. Compare and update your knowledge of the industry in 25-minutes informative and relaxed business meetings with solution providers of your choice.

● Networking

Strategic networking opportunities form a key benefit of participating in the meeting. Our proven format for building and strengthening alliances is underscored by a host of networking programmes, from casual networking activities such as lunches as well as formal networking opportunities that are built into your personalised agenda.

● Panel Discussion

Industry-leading professionals share their experiences in high-level strategic case study-based presentation.



"We met all the people that we were expecting to meet, and definitely the environment of the conference allows people to interact and be open to ideas and doing collaborations. We're happy!"

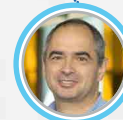
- Vice President Sales and Marketing, Genestack

"It's very valuable, the roundtable format, it's a chance for many people to contribute and the discussion follows interest of the participants. It's a very nice format and it's quite unique, not many conferences have this kind of format."

- Global Head of Operations for Pharma Research & Early Development, Roche



CONTRIBUTORS TO THE AGENDA



Philippe Sanseau

Global Head Computational Biology and Stats
GlaxoSmithKline



Mishal Patel

Global Head of Health Informatics
AstraZeneca



Ian Smith

Director - R&D Analytics and Information Management
Merck, Sharp & Dohme



Julian Maller

Director of Scientific Computing
Vertex Pharmaceuticals



Jonathan van Eyll

Director, Translational Bioinformatics, Neurosciences
UCB



Achim Kless

Scientific Director
Grünenthal



Marcelo Garcia

Medical Systems Head - ICE, Global Medical Affairs
Novartis



Michael Barnes

Professor and Director, Centre for Translational
Bioinformatics
Queen Mary University

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TRACKS	BIG DATA/ DATA MANAGEMENT	NEXT GENERATION SEQUENCING	DATA INTEGRATION/ MINING	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	CLINICAL RESEARCH & TRANSLATIONAL INFORMATICS
08:00-08:30	REGISTRATION & BREAKFAST NETWORKING				
08:30-09:00	WELCOME SPEECH & KEYNOTE PRESENTATION				
09:00-10:00	Modeling and simulation for clinical sciences in the cloud under GPX Title TBC Dr. Jason Swedlow, Glencoe Software	Genomic solutions to accelerate your NGS workflow from start to finish Philippe Sanseau, GlaxoSmithKline	Data curation and integration with the right tools and training enables powerful data mining, ML and AI along with efficiency improvements Michael Barnes, Queen Mary Univeristy	How to combine human concepts through layered semantic technologies in combination with statistical (machine learning) approaches to provide a new type of foundation for AI at enterprise scale. Confirmed for Sponsor	Integrating data: The key to translational research and the future of personalized medicine Jonathan van Eyll, UCB
10:00-10:05	MORNING BREAK				
10:05-10:30	1:1 MEETING/NETWORKING				
10:30-10:35	BREAK				
10:35-11:00	1:1 MEETING/NETWORKING				
11:00-12:00	Integrating and translating big data analysis to decision making in pivotal clinical studies Title TBC Mishal Patel, AstraZeneca	Evaluating NGS data in bioinformatics core facility Confirmed for Sponsor	Addressing the challenge of integration, mining, and analysis of enterprise-wide or consortia-level datasets Dr. Alessandro Riccombeni, DNAexus	Adopting machine learning to optimize target, anti-target, synthesizability, safety and toxicity profiles for therapeutics ready for synthesis and testing Title TBC Adventum	Computational Epistemology for Pharmaceutical Genomics - New Strategies for Discovering Knowledge Beyond Human Imagination Confirmed for Sponsor
12:00-12:05	BREAK				
12:05-12:30	1-1 MEETING/NETWORKING				
12:30-12:35	BREAK				
12:30-13:00	1-1 MEETING/ NETWORKING				
13:00-14:00	LUNCH				



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TRACKS	BIG DATA/ DATA MANAGEMENT	NEXT GENERATION SEQUENCING	DATA INTEGRATION/ MINING	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	CLINICAL RESEARCH & TRANSLATIONAL INFORMATICS
14:00-14:30	KEYNOTE PRESENTATION				
14:30-15:30	Providing the correct delivering and process of data- bringing clinical programme in line with the data management strategy Confirmed for Sponsor	Fully automated genome annotation with deep RNA sequencing Confirmed for Sponsor	High-Performance data mining for drug detection Title TBC Dr. Jason Swedlow, Glencoe Software	Exploring strategies to ensure organisational discipline that is critical to the successful integration of machine learning for data sciences J. Mark Bishop, University of London	Generating insights through exploration of cohorts and integration and analysis of phenotypic and genomic data Dr. Alessandro Riccombeni, DNAnexus
15:30-15:35	AFTERNOON BREAK				
15:35-16:00	1:1 MEETING/NETWORKING				
16:00-17:00	Driving Innovation by unlocking the potential of big data using highly visual and smart data analytics Julian Maller, Vertex Pharmaceuticals	Establishing omics data analysis through interactive visual analytics Ebad Banissi, London South Bank University	Driving continuous improvement in translational science through bringing genotype and phenotype together Marcelo Garcia, Novartis	The road to effective AI – Utilizing FAIR as a backbone to enable data governance and master data management. Do we need regulation to mandate? Ian Smith, Merck, Sharp & Dohme	Translation from GWAS to (gen)omics in clinical trials – how can we utilize and validate results for disease understanding Achim Kless, Grünenthal
17:00-18:00	DRINKS & CONVERSATION From algorithms optimisation to self-improving algorithms: where AI is and isn't working Jorge Bouças, Ph.D., Head of Bioinformatics, Max Planck Institute for Biology of Ageing				

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BIG DATA/DATA MANAGEMENT



Dr. Jason Swedlow

President and Chief Executive Officer
Glencoe Software



09:00-10:00

Modeling and simulation for clinical sciences in the cloud
under GPX **Title TBC**



Mishal Patel

Global Head of Health Informatics
AstraZeneca

11:00-12:00

Integrating and translating big data analysis to decision
making in pivotal clinical studies **Title TBC**



Confirmed for Sponsor

14:30-15:30

Providing the correct delivering and process of data- bringing
clinical programme in line with the data management strategy



Julian Maller

Director of Scientific Computing
Vertex Pharmaceuticals

16:00-17:00

Driving Innovation by unlocking the potential of big data using
highly visual and smart data analytics

- ▶ Big data analytics have the potential to accelerate progress across life sciences and beyond, but communicating the potential as well as the insights can be major challenges
- ▶ Data visualization techniques are key to overcoming these challenges, but must be thoughtfully selected and deployed
- ▶ Clarity and precision in analytics and visualization are particularly essential when driving change in highly specialized or scientific domains
- ▶ Moving beyond analytics: Data visualization as an enabler of generalized data exploration for domain experts

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NEXT GENERATION SEQUENCING



Philippe Sanseau

Global Head Computational Biology and Stats
GlaxoSmithKline

09:00-10:00

Genomic solutions to accelerate your NGS workflow from start to finish

- ▶ Implementing sustainable and scalable NGS workflows
- ▶ Connecting NGS data workflows with analytics
- ▶ Integrating internal and external NGS workflows



Confirmed for Sponsor

11:00-12:00

Evaluating NGS data in bioinformatics core facility



Confirmed for Sponsor

14:30-15:30

Fully automated genome annotation with deep RNA sequencing



Ebad Banissi

Professor, Head of Big Data and Informatics Research Group
London South Bank University

16:00-17:00

Establishing omics data analysis through interactive visual analytics

- ▶ Data - How to prepare data?
- ▶ Visual techniques - What visualisation is fit for data?
- ▶ User - How to explore visualisation?
- ▶ Knowledge - How to visualise data story?
- ▶ Framework for visualization

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DATA INTEGRATION/MINING



Michael Barnes

Professor and Director, Centre for Translational Bioinformatics
Queen Mary University

09:00-10:00

Data curation and integration with the right tools and training enables powerful data mining, ML and AI along with efficiency improvements

- ▶ How can we make data accessible for research? Applying FAIR principles (Findable, Accessible, Interoperable, Reproducible)
- ▶ How can big data be most effectively structured to enable AI and ML?
- ▶ How is the General Data Protection Regulation (GDPR) impacting data curation and integration for data mining? What solutions are available to satisfy GDPR without losing information?



Dr. Alessandro Riccombeni

Genomics Science Lead, EMEA
DNAnexus

DNAnexus

11:00-12:00

Addressing the challenge of integration, mining, and analysis of enterprise-wide or consortia-level datasets

- ▶ Challenges in harmonization, management, & reuse of genomic and clinical data
- ▶ Easing bottlenecks for biologists in accessing data, running standard queries and pipelines, and visualizing data
- ▶ Streamlining algorithm testing and deployment
- ▶ Challenges of scale and speed when handling large datasets



Dr. Jason Swedlow

President and Chief Executive Officer
Glencoe Software



14:30-15:30

High-Performance data mining for drug detection **Title TBC**



Marcelo Garcia

Medical Systems Head - ICE, Global Medical Affairs
Novartis

16:00-17:00

Driving continuous improvement in translational science through bringing genotype and phenotype together

- ▶ Examples of success
- ▶ Current challenges
- ▶ The future ahead

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ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

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09:00-10:00

How to combine human concepts through layered semantic technologies in combination with statistical (machine learning) approaches to provide a new type of foundation for AI at enterprise scale.



J. Mark Bishop

Professor of Cognitive Computing, Goldsmiths
University of London

14:30-15:30

Exploring strategies to ensure organisational discipline that is critical to the successful integration of machine learning for data sciences

- ▶ Data exchange: (i) XML: Green XML
- ▶ Data exchange: (ii) The failure of the "National patient record scheme"
- ▶ Data exchange: (iii) Is it wise to standardise data information exchange?
- ▶ Data transformation: (i) complex schema mapping (e.g. free text fields and/or compressing/expanding data fields. E.g. to rewrite addresses from 5 fields down to 4)
- ▶ Data transformation: (ii) AI driven (intelligent) data processing and concomitant AI software to be delivered effectively
- ▶ The GDPR: (i) Profiling
- ▶ THE GDPR: (ii) Decisions



Adventum



11:00-12:00

Adopting machine learning to optimize target, anti-target, synthesizability, safety and toxicity profiles for therapeutics ready for synthesis and testing **Title TBC**



Ian Smith

Director - R&D Analytics and Information Management
Merck, Sharp & Dohme

16:00-17:00

The road to effective AI - Utilizing FAIR as a backbone to enable data governance and master data management. Do we need regulation to mandate?

- ▶ To build effective AI, we first need quality data - How do companies build a foundation of master data management and data governance to ensure data trust?
- ▶ Is fairification the answer? If so, how do we enable FAIR. Would regulatory mandate enforce the need?
- ▶ If FAIR isn't the answer, how do we ensure confidence in our data to utilize AI for data driven decision making?

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CLINICAL RESEARCH & TRANSLATIONAL INFORMATICS

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Jonathan van Eyll

Director, Translational Bioinformatics, Neurosciences
UCB

09:00-10:00

Integrating data: The key to translational research and the future of personalized medicine

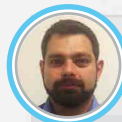
- ▶ Translational research aims at better aligning pre-clinical and clinical research on a multi-resolution scale (phenotype to molecular mechanism(s))
- ▶ Personalized medicine aims at leveraging disease heterogeneity with the aim of improving treatment outcome
- ▶ High data diversity and complexity of different resolutions (phenotype, histological, molecular, time series or single-point...) are collected
- ▶ Intra and inter-individual data integrations are key to solve translational and personalized medicine challenges, respectively
- ▶ Account for inter-species and inter-platform differences in the data integration process



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11:00-12:00

Computational Epistemology for Pharmaceutical Genomics
- New Strategies for Discovering Knowledge Beyond Human Imagination



Dr. Alessandro Riccombeni

Genomics Science Lead, EMEA
DNAnexus

DNAnexus

14:30-15:30

Generating insights through exploration of cohorts and integration and analysis of phenotypic and genomic data

- ▶ Linking NGS data to phenotypic/clinical data
- ▶ Challenges of working with large population-level studies
- ▶ Management and visualization of cohort data
- ▶ Security and compliance in research and clinical development



Achim Kless

Scientific Director
Grünenthal

16:00-17:00

Translation from GWAS to (gen)omics in clinical trials - how can we utilize and validate results for disease understanding

- ▶ Validation of GWAS results in clinical trials and/or in small cohorts
- ▶ Analysis and comparison genetic associations from several trials/studies
- ▶ Integration of omics data and available methods for disease understanding
- ▶ Exchange of experiences and best practice approaches

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2018 PARTICIPANTS

ABAC Therapeutics - CEO
AFFiRiS AG - Head of Scientific IT
Astrazeneca - Associate Director, Statistics and Machine Learning
Astrazeneca - Innovation Technologist
Astrazeneca - IT Director - Innovative Medicines
Axanton Technology GmbH - Director/Owner
Basilea Pharmaceutica - Head of Discovery Informatics
Bayer - Global Head Clinical Pharmacometrics, VP
Bayer - Global Head of IT
Biozentrum, Universität Basel - Head IT, Research
Centre National de la Recherche Scientifique - Head of Bioinformatics ARTbio Platform
CNRS - Research Director
CNRS - Senior Researcher
CNRS - Research Engineer
CNRS - Post-Doc in Bioinformatics
DFKZ - Head of Data Management
e-Therapeutics - Programme Manager
Elanix Biotechnologies - CTO
Eli Lilly - Director IT-Biology and Results Data
ETH ScopeM IDA - Image and Data analyst
ETH Zurich - Head of Scientific IT Services
Fraunhofer SCAI - Research Fellow
Glenmark Pharmaceuticals SA - Senior Director IP/Legal
Idorsia Pharmaceuticals - Associate Director, Principal Scientist, Deputy Head Translational Science
Idorsia Pharmaceuticals Ltd. - Associate Director, Senior Research Informatician
Idorsia Pharmaceuticals Ltd. - Head of Translation Science
Institute Cancer Research - Digital Operations Programme Lead
InterAx Biotech AG - CTO
Ipsen - Digital Biometry Director
Johnson & Johnson - Global Head, R&D, Dx Innovation and Lab Operation

LEO Pharma A/S - Principal Scientist / Professor
London South Bank University - Professor of Informatics, Head of Research for Big Data & Informatics
Max Planck Institute for Biology of Ageing - Head of Bioinformatics
Max-Planck-Institute of Psychiatry - Head of IT
Menarini Ricerche - IT Application Responsible
Menarini Ricerche S.p.A. - Head of Corporate Biostatistics and Data Management
Merck Group - Principal Scientist Oncology Bioinformatics
Merck Group - Senior IT Manager
Nottingham Trent University - Professor of Bioinformatics
Novartis - Global Head of Integrated Data Sciences
Novartis - Global Head, Drug Development IT
Novartis - Director Alternative Technologies and Automation
Novartis - Basel Head of Chemical Biology and Therapeutics Informatics
Novartis - Lead Technical Architect Group & Platform Services
Novartis - Investigator
Novartis - Data Science Head Musculoskeletal
Novozymes - Department Manager
Novozymes - Senior Department Manager
Paul Scherrer Institut - Head IT
Pierre Fabre - Vice President Translational Medicine
Pistoia Alliance - Project Manager
Pistoia Alliance - Executive Director
Roche - Global Head of Operations for Pharma Research & Early Development
Roche - Global Head Knowledge Management PTD
Roche - Global Head Technical Operations & Research Infrastructure
Roche - Lead Architect, HPC Strategy and Architecture
Roche - Head of Biochemical & Analytical Research
Roche Diagnostics - Head of Customer Support Sequencing Solutions
Roche Diagnostics - Head Data Mgmt & Analysis
Saarland University - Center of Bioinformatics Professor for Computational Biology
Sanofi - Global Analytics Deputy Director

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KEY OPINION LEADER



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VENUE

Crowne Plaza London Docklands
Royal Victoria Dock, Western Gateway,
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*To make an individual room reservation,
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EMAIL: group@cpdocklands.co.uk

DISCOUNT ROOM RATES

Single Occupancy: **\$ 219**
Double Occupancy: **\$ 229**

DISCOUNT ROOM RATE CUT OFF

18TH February, 2019

Proventa Code: PI4

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